
python-gitlab Documentation

Release 3.4.0

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`python-gitlab` is a Python package providing access to the GitLab server API. It supports the v4 API of GitLab, and provides a CLI tool (`gitlab`).

INSTALLATION

As of 3.0.0, `python-gitlab` is compatible with Python 3.7+.

Use `pip` to install the latest stable version of `python-gitlab`:

```
$ pip install --upgrade python-gitlab
```

The current development version is available on both [GitHub.com](https://github.com/python-gitlab/python-gitlab) and [GitLab.com](https://gitlab.com/python-gitlab/python-gitlab), and can be installed directly from the git repository:

```
$ pip install git+https://github.com/python-gitlab/python-gitlab.git
```

From GitLab:

```
$ pip install git+https://gitlab.com/python-gitlab/python-gitlab.git
```


USING THE DOCKER IMAGE

You can run the Docker image directly from the GitLab registry:

```
$ docker run -it --rm registry.gitlab.com/python-gitlab/python-gitlab:latest <command> ..  
↪ .
```

For example, to get a project on GitLab.com (without authentication):

```
$ docker run -it --rm registry.gitlab.com/python-gitlab/python-gitlab:latest project get_..  
↪ --id gitlab-org/gitlab
```

You can also mount your own config file:

```
$ docker run -it --rm -v /path/to/python-gitlab.cfg:/etc/python-gitlab.cfg registry..  
↪ gitlab.com/python-gitlab/python-gitlab:latest <command> ...
```

2.1 Building the image

To build your own image from this repository, run:

```
$ docker build -t python-gitlab:latest .
```

Run your own image:

```
$ docker run -it --rm -v python-gitlab:latest <command> ...
```


BUG REPORTS

Please report bugs and feature requests at <https://github.com/python-gitlab/python-gitlab/issues>.

GITTER COMMUNITY CHAT

We have a [gitter](https://gitter.im/python-gitlab/Lobby) community chat available at <https://gitter.im/python-gitlab/Lobby>, which you can also directly access via the Open Chat button below.

If you have a simple question, the community might be able to help already, without you opening an issue. If you regularly use python-gitlab, we also encourage you to join and participate. You might discover new ideas and use cases yourself!

DOCUMENTATION

The full documentation for CLI and API is available on [readthedocs](#).

5.1 Build the docs

We use `tox` to manage our environment and build the documentation:

```
pip install tox
tox -e docs
```


CONTRIBUTING

For guidelines for contributing to `python-gitlab`, refer to [CONTRIBUTING.rst](#).

6.1 Getting started with the CLI

`python-gitlab` provides a **gitlab** command-line tool to interact with GitLab servers.

This is especially convenient for running quick ad-hoc commands locally, easily interacting with the API inside GitLab CI, or with more advanced shell scripting when integrating with other tooling.

6.1.1 Configuration

`gitlab` allows setting configuration options via command-line arguments, environment variables, and configuration files.

For a complete list of global CLI options and their environment variable equivalents, see *CLI reference (gitlab command)*.

With no configuration provided, `gitlab` will default to unauthenticated requests against [GitLab.com](#).

With no configuration but running inside a GitLab CI job, it will default to authenticated requests using the current job token against the current instance (via `CI_SERVER_URL` and `CI_JOB_TOKEN` environment variables).

Warning: Please note the job token has very limited permissions and can only be used with certain endpoints. You may need to provide a personal access token instead.

When you provide configuration, values are evaluated with the following precedence:

1. Explicitly provided CLI arguments,
2. Environment variables,
3. Configuration files:
 - a. explicitly defined config files:
 - i. via the `--config-file` CLI argument,
 - ii. via the `PYTHON_GITLAB_CFG` environment variable,
 - b. user-specific config file,
 - c. system-level config file,
4. Environment variables always present in CI (`CI_SERVER_URL`, `CI_JOB_TOKEN`).

Additionally, authentication will take the following precedence when multiple options or environment variables are present:

1. Private token,
2. OAuth token,
3. CI job token.

Configuration files

gitlab looks up 3 configuration files by default:

The PYTHON_GITLAB_CFG environment variable An environment variable that contains the path to a configuration file.

/etc/python-gitlab.cfg System-wide configuration file

~/.python-gitlab.cfg User configuration file

You can use a different configuration file with the `--config-file` option.

Warning: If the PYTHON_GITLAB_CFG environment variable is defined and the target file exists, it will be the only configuration file parsed by gitlab.

If the environment variable is defined and the target file cannot be accessed, gitlab will fail explicitly.

Configuration file format

The configuration file uses the INI format. It contains at least a `[global]` section, and a specific section for each GitLab server. For example:

```
[global]
default = somewhere
ssl_verify = true
timeout = 5

[somewhere]
url = https://some.whe.re
private_token = vTbFeqJYCY3sibBP7BZM
api_version = 4

[elsewhere]
url = http://else.whe.re:8080
private_token = helper: path/to/helper.sh
timeout = 1
```

The `default` option of the `[global]` section defines the GitLab server to use if no server is explicitly specified with the `--gitlab` CLI option.

The `[global]` section also defines the values for the default connection parameters. You can override the values in each GitLab server section.

Table 1: Global options

Option	Possible values	Description
ssl_verify	True, False, or a str	Verify the SSL certificate. Set to False to disable verification, though this will create warnings. Any other value is interpreted as path to a CA_BUNDLE file or directory with certificates of trusted CAs.
timeout	Integer	Number of seconds to wait for an answer before failing.
api_version	4	The API version to use to make queries. Only 4 is available since 1.5.0.
per_page	Integer between 1 and 100	The number of items to return in listing queries. GitLab limits the value at 100.
user_agent	str	A string defining a custom user agent to use when gitlab makes requests.

You must define the `url` in each GitLab server section.

Warning: Note that a url that results in 301/302 redirects will raise an error, so it is highly recommended to use the final destination in the `url` field. For example, if the GitLab server you are using redirects requests from http to https, make sure to use the `https://` protocol in the URL definition.

A URL that redirects using 301/302 (rather than 307/308) will most likely cause malformed POST and PUT requests. python-gitlab will therefore raise a `RedirectionError` when it encounters a redirect which it believes will cause such an error, to avoid confusion between successful GET and failing POST/PUT requests on the same instance.

Only one of `private_token`, `oauth_token` or `job_token` should be defined. If neither are defined an anonymous request will be sent to the Gitlab server, with very limited permissions.

We recommend that you use *Credential helpers* to securely store your tokens.

Table 2: GitLab server options

Option	Description
url	URL for the GitLab server. Do NOT use a URL which redirects.
private_token	Your user token. Login/password is not supported. Refer to the official documentation to learn how to obtain a token.
oauth_token	An OAuth token for authentication. The Gitlab server must be configured to support this authentication method.
job_token	Your job token. See the official documentation to learn how to obtain a token.
api_version	GitLab API version to use. Only 4 is available since 1.5.0.
http_username	Username for optional HTTP authentication
http_password	Password for optional HTTP authentication

Credential helpers

For all configuration options that contain secrets (`http_password`, `personal_token`, `oauth_token`, `job_token`), you can specify a helper program to retrieve the secret indicated by a `helper:` prefix. This allows you to fetch values from a local keyring store or cloud-hosted vaults such as Bitwarden. Environment variables are expanded if they exist and `~` expands to your home directory.

It is expected that the helper program prints the secret to standard output. To use shell features such as piping to retrieve the value, you will need to use a wrapper script; see below.

Example for a *keyring* helper:

```
[global]
default = somewhere
ssl_verify = true
timeout = 5

[somewhere]
url = http://somewe.re
private_token = helper: keyring get Service Username
timeout = 1
```

Example for a `pass` helper with a wrapper script:

```
[global]
default = somewhere
ssl_verify = true
timeout = 5

[somewhere]
url = http://somewe.re
private_token = helper: /path/to/helper.sh
timeout = 1
```

In `/path/to/helper.sh`:

```
#!/bin/bash
pass show path/to/password | head -n 1
```

6.1.2 CLI

Objects and actions

The `gitlab` command expects two mandatory arguments. The first one is the type of object that you want to manipulate. The second is the action that you want to perform. For example:

```
$ gitlab project list
```

Use the `--help` option to list the available object types and actions:

```
$ gitlab --help
$ gitlab project --help
```

Some actions require additional parameters. Use the `--help` option to list mandatory and optional arguments for an action:

```
$ gitlab project create --help
```

Optional arguments

Use the following optional arguments to change the behavior of `gitlab`. These options must be defined before the mandatory arguments.

--verbose, -v Outputs detail about retrieved objects. Available for legacy (default) output only.

--config-file, -c Path to a configuration file.

--gitlab, -g ID of a GitLab server defined in the configuration file.

--output, -o Output format. Defaults to a custom format. Can also be `yaml` or `json`.

Important: The `PyYAML` package is required to use the `yaml` output option. You need to install it explicitly using `pip install python-gitlab[yaml]`

--fields, -f Comma-separated list of fields to display (`yaml` and `json` output formats only). If not used, all the object fields are displayed.

Example:

```
$ gitlab -o yaml -f id,permissions -g elsewhere -c /tmp/gl.cfg project list
```

Reading values from files

You can make `gitlab` read values from files instead of providing them on the command line. This is handy for values containing new lines for instance:

```
$ cat > /tmp/description << EOF
This is the description of my project.

It is obviously the best project around
EOF
$ gitlab project create --name SuperProject --description @/tmp/description
```

6.1.3 Enabling shell autocompletion

To get autocompletion, you'll need to install the package with the extra "autocompletion":

```
pip install python-gitlab[autocompletion]
```

Add the appropriate command below to your shell's config file so that it is run on startup. You will likely have to restart or re-login for the autocompletion to start working.

Bash

```
eval "$(register-python-argcomplete gitlab)"
```

tcsh

```
eval `register-python-argcomplete --shell tcsh gitlab`
```

fish

```
register-python-argcomplete --shell fish gitlab | .
```

Zsh

Warning: Zsh autocompletion support is broken right now in the argcomplete python package. Perhaps it will be fixed in a future release of argcomplete at which point the following instructions will enable autocompletion in zsh.

To activate completions for zsh you need to have bashcompinit enabled in zsh:

```
autoload -U bashcompinit
bashcompinit
```

Afterwards you can enable completion for gitlab:

```
eval "$(register-python-argcomplete gitlab)"
```

6.2 Getting started with the API

python-gitlab only supports GitLab API v4.

6.2.1 gitlab.Gitlab class

To connect to GitLab.com or another GitLab instance, create a `gitlab.Gitlab` object:

```
import gitlab

# anonymous read-only access for public resources (GitLab.com)
gl = gitlab.Gitlab()

# anonymous read-only access for public resources (self-hosted GitLab instance)
gl = gitlab.Gitlab('https://gitlab.example.com')

# private token or personal token authentication (GitLab.com)
gl = gitlab.Gitlab(private_token='JVNSEs8EwWRx5yDxM5q')
```

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```

# private token or personal token authentication (self-hosted GitLab instance)
gl = gitlab.Gitlab(url='https://gitlab.example.com', private_token='JVNSEs8EwWRx5yDxM5q
↪')

# oauth token authentication
gl = gitlab.Gitlab('https://gitlab.example.com', oauth_token='my_long_token_here')

# job token authentication (to be used in CI)
# bear in mind the limitations of the API endpoints it supports:
# https://docs.gitlab.com/ee/ci/jobs/ci_job_token.html
import os
gl = gitlab.Gitlab('https://gitlab.example.com', job_token=os.environ['CI_JOB_TOKEN'])

# Define your own custom user agent for requests
gl = gitlab.Gitlab('https://gitlab.example.com', user_agent='my-package/1.0.0')

# make an API request to create the gl.user object. This is mandatory if you
# use the username/password authentication - not required for token authentication,
# and will not work with job tokens.
gl.auth()

```

You can also use configuration files to create `gitlab.Gitlab` objects:

```
gl = gitlab.Gitlab.from_config('somewhere', ['/tmp/gl.cfg'])
```

See the [Configuration](#) section for more information about configuration files.

Warning: Note that a url that results in 301/302 redirects will raise an error, so it is highly recommended to use the final destination in the `url` field. For example, if the GitLab server you are using redirects requests from http to https, make sure to use the `https://` protocol in the URL definition.

A URL that redirects using 301/302 (rather than 307/308) will most likely cause malformed POST and PUT requests. python-gitlab will therefore raise a `RedirectionError` when it encounters a redirect which it believes will cause such an error, to avoid confusion between successful GET and failing POST/PUT requests on the same instance.

Note on password authentication

The `/session` API endpoint used for username/password authentication has been removed from GitLab in version 10.2, and is not available on gitlab.com anymore. Personal token authentication is the preferred authentication method.

If you need username/password authentication, you can use cookie-based authentication. You can use the web UI form to authenticate, retrieve cookies, and then use a custom `requests.Session` object to connect to the GitLab API. The following code snippet demonstrates how to automate this: <https://gist.github.com/gpocentek/bd4c3fbf8a6ce226ebddc4aad6b46c0a>.

See [issue 380](#) for a detailed discussion.

6.2.2 Managers

The `gitlab.Gitlab` class provides managers to access the GitLab resources. Each manager provides a set of methods to act on the resources. The available methods depend on the resource type.

Examples:

```
# list all the projects
projects = gl.projects.list()
for project in projects:
    print(project)

# get the group with id == 2
group = gl.groups.get(2)
for project in group.projects.list():
    print(project)

# create a new user
user_data = {'email': 'jen@foo.com', 'username': 'jen', 'name': 'Jen'}
user = gl.users.create(user_data)
print(user)
```

You can list the mandatory and optional attributes for object creation and update with the manager's `get_create_attrs()` and `get_update_attrs()` methods. They return 2 tuples, the first one is the list of mandatory attributes, the second one is the list of optional attribute:

```
# v4 only
print(gl.projects.get_create_attrs())
(('name',), ('path', 'namespace_id', ...))
```

The attributes of objects are defined upon object creation, and depend on the GitLab API itself. To list the available information associated with an object use the `attributes` attribute:

```
project = gl.projects.get(1)
print(project.attributes)
```

Some objects also provide managers to access related GitLab resources:

```
# list the issues for a project
project = gl.projects.get(1)
issues = project.issues.list()
```

python-gitlab allows to send any data to the GitLab server when making queries. In case of invalid or missing arguments python-gitlab will raise an exception with the GitLab server error message:

```
>>> gl.projects.list(sort='invalid value')
...
GitlabListError: 400: sort does not have a valid value
```

You can use the `query_parameters` argument to send arguments that would conflict with python or python-gitlab when using them as kwargs:

```
gl.user_activities.list(from='2019-01-01') ## invalid

gl.user_activities.list(query_parameters={'from': '2019-01-01'}) # OK
```

6.2.3 Gitlab Objects

You can update or delete a remote object when it exists locally:

```
# update the attributes of a resource
project = gl.projects.get(1)
project.wall_enabled = False
# don't forget to apply your changes on the server:
project.save()

# delete the resource
project.delete()
```

Some classes provide additional methods, allowing more actions on the GitLab resources. For example:

```
# star a git repository
project = gl.projects.get(1)
project.star()
```

You can print a Gitlab Object. For example:

```
project = gl.projects.get(1)
print(project)

# Or in a prettier format.
project.pprint()

# Or explicitly via `pformat()`. This is equivalent to the above.
print(project.pformat())
```

6.2.4 Base types

The gitlab package provides some base types.

- `gitlab.Gitlab` is the primary class, handling the HTTP requests. It holds the GitLab URL and authentication information.
- `gitlab.base.RESTObject` is the base class for all the GitLab v4 objects. These objects provide an abstraction for GitLab resources (projects, groups, and so on).
- `gitlab.base.RESTManager` is the base class for v4 objects managers, providing the API to manipulate the resources and their attributes.

6.2.5 Lazy objects

To avoid useless API calls to the server you can create lazy objects. These objects are created locally using a known ID, and give access to other managers and methods.

The following example will only make one API call to the GitLab server to star a project (the previous example used 2 API calls):

```
# star a git repository
project = gl.projects.get(1, lazy=True) # no API call
project.star() # API call
```

6.2.6 Pagination

You can use pagination to iterate over long lists. All the Gitlab objects listing methods support the `page` and `per_page` parameters:

```
ten_first_groups = gl.groups.list(page=1, per_page=10)
```

Warning: The first page is page 1, not page 0.

By default GitLab does not return the complete list of items. Use the `all` parameter to get all the items when using listing methods:

```
all_groups = gl.groups.list(all=True)
all_owned_projects = gl.projects.list(owned=True, all=True)
```

You can define the `per_page` value globally to avoid passing it to every `list()` method call:

```
gl = gitlab.Gitlab(url, token, per_page=50)
```

Gitlab allows to also use keyset pagination. You can supply it to your project listing, but you can also do so globally. Be aware that GitLab then also requires you to only use supported order options. At the time of writing, only `order_by="id"` works.

```
gl = gitlab.Gitlab(url, token, pagination="keyset", order_by="id", per_page=100)
gl.projects.list()
```

Reference: <https://docs.gitlab.com/ce/api/README.html#keyset-based-pagination>

`list()` methods can also return a generator object which will handle the next calls to the API when required. This is the recommended way to iterate through a large number of items:

```
items = gl.groups.list(as_list=False)
for item in items:
    print(item.attributes)
```

The generator exposes extra listing information as received from the server:

- `current_page`: current page number (first page is 1)
- `prev_page`: if `None` the current page is the first one
- `next_page`: if `None` the current page is the last one
- `per_page`: number of items per page
- `total_pages`: total number of pages available. This may be a `None` value.
- `total`: total number of items in the list. This may be a `None` value.

Note: For performance reasons, if a query returns more than 10,000 records, GitLab does not return the `total_pages` or `total` headers. In this case, `total_pages` and `total` will have a value of `None`.

For more information see: https://docs.gitlab.com/ee/user/gitlab_com/index.html#pagination-response-headers

6.2.7 Sudo

If you have the administrator status, you can use `sudo` to act as another user. For example:

```
p = gl.projects.create({'name': 'awesome_project'}, sudo='user1')
```

6.2.8 Advanced HTTP configuration

python-gitlab relies on `requests` `Session` objects to perform all the HTTP requests to the Gitlab servers.

You can provide your own `Session` object with custom configuration when you create a `Gitlab` object.

Context manager

You can use `Gitlab` objects as context managers. This makes sure that the `requests.Session` object associated with a `Gitlab` instance is always properly closed when you exit a `with` block:

```
with gitlab.Gitlab(host, token) as gl:
    gl.projects.list()
```

Warning: The context manager will also close the custom `Session` object you might have used to build the `Gitlab` instance.

Proxy configuration

The following sample illustrates how to define a proxy configuration when using python-gitlab:

```
import gitlab
import requests

session = requests.Session()
session.proxies = {
    'https': os.environ.get('https_proxy'),
    'http': os.environ.get('http_proxy'),
}
gl = gitlab.gitlab(url, token, api_version=4, session=session)
```

Reference: <https://2.python-requests.org/en/master/user/advanced/#proxies>

SSL certificate verification

python-gitlab relies on the CA certificate bundle in the `certifi` package that comes with the `requests` library.

If you need python-gitlab to use your system CA store instead, you can provide the path to the CA bundle in the `REQUESTS_CA_BUNDLE` environment variable.

Reference: <https://2.python-requests.org/en/master/user/advanced/#ssl-cert-verification>

Client side certificate

The following sample illustrates how to use a client-side certificate:

```
import gitlab
import requests

session = requests.Session()
session.cert = ('/path/to/client.cert', '/path/to/client.key')
gl = gitlab.gitlab(url, token, api_version=4, session=session)
```

Reference: <https://2.python-requests.org/en/master/user/advanced/#client-side-certificates>

Rate limits

python-gitlab obeys the rate limit of the GitLab server by default. On receiving a 429 response (Too Many Requests), python-gitlab sleeps for the amount of time in the Retry-After header that GitLab sends back. If GitLab does not return a response with the Retry-After header, python-gitlab will perform an exponential backoff.

If you don't want to wait, you can disable the rate-limiting feature, by supplying the `obey_rate_limit` argument.

```
import gitlab
import requests

gl = gitlab.gitlab(url, token, api_version=4)
gl.projects.list(all=True, obey_rate_limit=False)
```

If you do not disable the rate-limiting feature, you can supply a custom value for `max_retries`; by default, this is set to 10. To retry without bound when throttled, you can set this parameter to -1. This parameter is ignored if `obey_rate_limit` is set to False.

```
import gitlab
import requests

gl = gitlab.gitlab(url, token, api_version=4)
gl.projects.list(all=True, max_retries=12)
```

Warning: You will get an Exception, if you then go over the rate limit of your GitLab instance.

Transient errors

GitLab server can sometimes return a transient HTTP error. python-gitlab can automatically retry in such case, when `retry_transient_errors` argument is set to True. When enabled, HTTP error codes 500 (Internal Server Error), 502 (502 Bad Gateway), 503 (Service Unavailable), and 504 (Gateway Timeout) are retried. It will retry until reaching the `max_retries` value. By default, `retry_transient_errors` is set to *False* and an exception is raised for these errors.

```
import gitlab
import requests

gl = gitlab.gitlab(url, token, api_version=4)
gl.projects.list(all=True, retry_transient_errors=True)
```

The default `retry_transient_errors` can also be set on the Gitlab object and overridden by individual API calls.

```
import gitlab
import requests
gl = gitlab.gitlab(url, token, api_version=4, retry_transient_errors=True)
gl.projects.list(all=True) # retries due to default value
gl.projects.list(all=True, retry_transient_errors=False) # does not retry
```

Timeout

python-gitlab will by default use the `timeout` option from it's configuration for all requests. This is passed downwards to the `requests` module at the time of making the HTTP request. However if you would like to override the global timeout parameter for a particular call, you can provide the `timeout` parameter to that API invocation:

```
import gitlab

gl = gitlab.gitlab(url, token, api_version=4)
gl.projects.import_github(ACCESS_TOKEN, 123456, "root", timeout=120.0)
```

6.2.9 Attributes in updated objects

When methods manipulate an existing object, such as with `refresh()` and `save()`, the object will only have attributes that were returned by the server. In some cases, such as when the initial request fetches attributes that are needed later for additional processing, this may not be desired:

```
project = gl.projects.get(1, statistics=True)
project.statistics

project.refresh()
project.statistics # AttributeError
```

To avoid this, either copy the object/attributes before calling `refresh()/save()` or subsequently perform another `get()` call as needed, to fetch the attributes you want.

6.3 CLI examples

See also:

For a complete list of objects and actions available, see *CLI reference (gitlab command)*.

6.3.1 Projects

List the projects (paginated):

```
$ gitlab project list
```

List all the projects:

```
$ gitlab project list --all
```

List all projects of a group:

```
$ gitlab group-project list --all --group-id 1
```

List all projects of a group and its subgroups:

```
$ gitlab group-project list --all --include-subgroups true --group-id 1
```

Limit to 5 items per request, display the 1st page only

```
$ gitlab project list --page 1 --per-page 5
```

Get a specific project (id 2):

```
$ gitlab project get --id 2
```

6.3.2 Users

Get a specific user by id:

```
$ gitlab user get --id 3
```

6.3.3 Deploy tokens

Create a deploy token for a project:

```
$ gitlab -v project-deploy-token create --project-id 2 \  
  --name bar --username root --expires-at "2021-09-09" --scopes "read_repository"
```

List deploy tokens for a group:

```
$ gitlab -v group-deploy-token list --group-id 3
```

6.3.4 Packages

List packages for a project:

```
$ gitlab -v project-package list --project-id 3
```

List packages for a group:

```
$ gitlab -v group-package list --group-id 3
```

Get a specific project package by id:

```
$ gitlab -v project-package get --id 1 --project-id 3
```

Delete a specific project package by id:

```
$ gitlab -v project-package delete --id 1 --project-id 3
```

Upload a generic package to a project:

```
$ gitlab generic-package upload --project-id 1 --package-name hello-world \
  --package-version v1.0.0 --file-name hello.tar.gz --path /path/to/hello.tar.gz
```

Download a project's generic package:

```
$ gitlab generic-package download --project-id 1 --package-name hello-world \
  --package-version v1.0.0 --file-name hello.tar.gz > /path/to/hello.tar.gz
```

6.3.5 Issues

Get a list of issues for this project:

```
$ gitlab project-issue list --project-id 2
```

6.3.6 Snippets

Delete a snippet (id 3):

```
$ gitlab project-snippet delete --id 3 --project-id 2
```

Update a snippet:

```
$ gitlab project-snippet update --id 4 --project-id 2 \
  --code "My New Code"
```

Create a snippet:

```
$ gitlab project-snippet create --project-id 2
Impossible to create object (Missing attribute(s): title, file-name, code)
$ # oops, let's add the attributes:
$ gitlab project-snippet create --project-id 2 --title "the title" \
  --file-name "the name" --code "the code"
```

6.3.7 Commits

Get a specific project commit by its SHA id:

```
$ gitlab project-commit get --project-id 2 --id a43290c
```

Get the signature (e.g. GPG or x509) of a signed commit:

```
$ gitlab project-commit signature --project-id 2 --id a43290c
```

Define the status of a commit (as would be done from a CI tool for example):

```
$ gitlab project-commit-status create --project-id 2 \
  --commit-id a43290c --state success --name ci/jenkins \
  --target-url http://server/build/123 \
  --description "Jenkins build succeeded"
```

6.3.8 Artifacts

Download the artifacts zip archive of a job:

```
$ gitlab project-job artifacts --id 10 --project-id 1 > artifacts.zip
```

6.3.9 Other

Use sudo to act as another user (admin only):

```
$ gitlab project create --name user_project1 --sudo username
```

List values are comma-separated:

```
$ gitlab issue list --labels foo,bar
```

6.4 API examples

6.4.1 Access requests

Users can request access to groups and projects.

When access is granted the user should be given a numerical access level. The following constants are provided to represent the access levels:

- `gitlab.const.GUEST_ACCESS: 10`
- `gitlab.const.REPORTER_ACCESS: 20`
- `gitlab.const.DEVELOPER_ACCESS: 30`
- `gitlab.const.MAINTAINER_ACCESS: 40`
- `gitlab.const.OWNER_ACCESS: 50`

References

- v4 API:
 - `gitlab.v4.objects.ProjectAccessRequest`
 - `gitlab.v4.objects.ProjectAccessRequestManager`
 - `gitlab.v4.objects.Project.accessrequests`
 - `gitlab.v4.objects.GroupAccessRequest`
 - `gitlab.v4.objects.GroupAccessRequestManager`
 - `gitlab.v4.objects.Group.accessrequests`
- GitLab API: https://docs.gitlab.com/ce/api/access_requests.html

Examples

List access requests from projects and groups:

```
p_ars = project.accessrequests.list()
g_ars = group.accessrequests.list()
```

Create an access request:

```
p_ar = project.accessrequests.create()
g_ar = group.accessrequests.create()
```

Approve an access request:

```
ar.approve() # defaults to DEVELOPER level
ar.approve(access_level=gitlab.const.MAINTAINER_ACCESS) # explicitly set access level
```

Deny (delete) an access request:

```
project.accessrequests.delete(user_id)
group.accessrequests.delete(user_id)
# or
ar.delete()
```

6.4.2 Appearance

Reference

- v4 API:
 - `gitlab.v4.objects.ApplicationAppearance`
 - `gitlab.v4.objects.ApplicationAppearanceManager`
 - `gitlab.Gitlab.appearance`
- GitLab API: <https://docs.gitlab.com/ce/api/appearance.html>

Examples

Get the appearance:

```
appearance = gl.appearance.get()
```

Update the appearance:

```
appearance.title = "Test"
appearance.save()
```

6.4.3 Applications

Reference

- v4 API:
 - `gitlab.v4.objects.Applications`
 - `gitlab.v4.objects.ApplicationManager`
 - `gitlab.Gitlab.applications`
- GitLab API: <https://docs.gitlab.com/ce/api/applications.html>

Examples

List all OAuth applications:

```
applications = gl.applications.list()
```

Create an application:

```
gl.applications.create({'name': 'your_app', 'redirect_uri': 'http://application.url',  
↪ 'scopes': 'read_user openid profile email'})
```

Delete an applications:

```
gl.applications.delete(app_id)  
# or  
application.delete()
```

6.4.4 Award Emojis

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectIssueAwardEmoji`
 - `gitlab.v4.objects.ProjectIssueNoteAwardEmoji`
 - `gitlab.v4.objects.ProjectMergeRequestAwardEmoji`
 - `gitlab.v4.objects.ProjectMergeRequestNoteAwardEmoji`
 - `gitlab.v4.objects.ProjectSnippetAwardEmoji`
 - `gitlab.v4.objects.ProjectSnippetNoteAwardEmoji`
 - `gitlab.v4.objects.ProjectIssueAwardEmojiManager`
 - `gitlab.v4.objects.ProjectIssueNoteAwardEmojiManager`
 - `gitlab.v4.objects.ProjectMergeRequestAwardEmojiManager`
 - `gitlab.v4.objects.ProjectMergeRequestNoteAwardEmojiManager`
 - `gitlab.v4.objects.ProjectSnippetAwardEmojiManager`
 - `gitlab.v4.objects.ProjectSnippetNoteAwardEmojiManager`

- GitLab API: https://docs.gitlab.com/ce/api/award_emoji.html

Examples

List emojis for a resource:

```
emojis = obj.awardemojis.list()
```

Get a single emoji:

```
emoji = obj.awardemojis.get(emoji_id)
```

Add (create) an emoji:

```
emoji = obj.awardemojis.create({'name': 'tractor'})
```

Delete an emoji:

```
emoji.delete  
# or  
obj.awardemojis.delete(emoji_id)
```

6.4.5 Badges

Badges can be associated with groups and projects.

Reference

- v4 API:
 - *gitlab.v4.objects.GroupBadge*
 - *gitlab.v4.objects.GroupBadgeManager*
 - *gitlab.v4.objects.Group.badges*
 - *gitlab.v4.objects.ProjectBadge*
 - *gitlab.v4.objects.ProjectBadgeManager*
 - *gitlab.v4.objects.Project.badges*
- GitLab API:
 - https://docs.gitlab.com/ce/api/group_badges.html
 - https://docs.gitlab.com/ce/api/project_badges.html

Examples

List badges:

```
badges = group_or_project.badges.list()
```

Get a badge:

```
badge = group_or_project.badges.get(badge_id)
```

Create a badge:

```
badge = group_or_project.badges.create({'link_url': link, 'image_url': image_link})
```

Update a badge:

```
badge.image_link = new_link  
badge.save()
```

Delete a badge:

```
badge.delete()
```

Render a badge (preview the generate URLs):

```
output = group_or_project.badges.render(link, image_link)  
print(output['rendered_link_url'])  
print(output['rendered_image_url'])
```

6.4.6 Branches

References

- v4 API:
 - *gitlab.v4.objects.ProjectBranch*
 - *gitlab.v4.objects.ProjectBranchManager*
 - *gitlab.v4.objects.Project.branches*
- GitLab API: <https://docs.gitlab.com/ce/api/branches.html>

Examples

Get the list of branches for a repository:

```
branches = project.branches.list()
```

Get a single repository branch:

```
branch = project.branches.get('main')
```

Create a repository branch:

```
branch = project.branches.create({'branch': 'feature1',
                                  'ref': 'main'})
```

Delete a repository branch:

```
project.branches.delete('feature1')
# or
branch.delete()
```

Delete the merged branches for a project:

```
project.delete_merged_branches()
```

To manage protected branches, see *Protected branches*.

6.4.7 Clusters

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectCluster`
 - `gitlab.v4.objects.ProjectClusterManager`
 - `gitlab.v4.objects.Project.clusters`
 - `gitlab.v4.objects.GroupCluster`
 - `gitlab.v4.objects.GroupClusterManager`
 - `gitlab.v4.objects.Group.clusters`
- GitLab API: https://docs.gitlab.com/ee/api/project_clusters.html
- GitLab API: https://docs.gitlab.com/ee/api/group_clusters.html

Examples

List clusters for a project:

```
clusters = project.clusters.list()
```

Create an cluster for a project:

```
cluster = project.clusters.create(
{
    "name": "cluster1",
    "platform_kubernetes_attributes": {
        "api_url": "http://url",
        "token": "tokenval",
    },
})
```

Retrieve a specific cluster for a project:

```
cluster = project.clusters.get(cluster_id)
```

Update an cluster for a project:

```
cluster.platform_kubernetes_attributes = {"api_url": "http://newurl"}
cluster.save()
```

Delete an cluster for a project:

```
cluster = project.clusters.delete(cluster_id)
# or
cluster.delete()
```

List clusters for a group:

```
clusters = group.clusters.list()
```

Create an cluster for a group:

```
cluster = group.clusters.create(
{
    "name": "cluster1",
    "platform_kubernetes_attributes": {
        "api_url": "http://url",
        "token": "tokenval",
    },
})
```

Retrieve a specific cluster for a group:

```
cluster = group.clusters.get(cluster_id)
```

Update an cluster for a group:

```
cluster.platform_kubernetes_attributes = {"api_url": "http://newurl"}
cluster.save()
```

Delete an cluster for a group:

```
cluster = group.clusters.delete(cluster_id)
# or
cluster.delete()
```

6.4.8 Broadcast messages

You can use broadcast messages to display information on all pages of the gitlab web UI. You must have administration permissions to manipulate broadcast messages.

References

- v4 API:
 - `gitlab.v4.objects.BroadcastMessage`
 - `gitlab.v4.objects.BroadcastMessageManager`
 - `gitlab.Gitlab.broadcastmessages`
- GitLab API: https://docs.gitlab.com/ce/api/broadcast_messages.html

Examples

List the messages:

```
msgs = gl.broadcastmessages.list()
```

Get a single message:

```
msg = gl.broadcastmessages.get(msg_id)
```

Create a message:

```
msg = gl.broadcastmessages.create({'message': 'Important information'})
```

The date format for the `starts_at` and `ends_at` parameters is `YYYY-MM-ddThh:mm:ssZ`.

Update a message:

```
msg.font = '#444444'
msg.color = '#999999'
msg.save()
```

Delete a message:

```
gl.broadcastmessages.delete(msg_id)
# or
msg.delete()
```

6.4.9 Commits

Commits

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectCommit`
 - `gitlab.v4.objects.ProjectCommitManager`
 - `gitlab.v4.objects.Project.commits`

Examples

List the commits for a project:

```
commits = project.commits.list()
```

You can use the `ref_name`, `since` and `until` filters to limit the results:

```
commits = project.commits.list(ref_name='my_branch')
commits = project.commits.list(since='2016-01-01T00:00:00Z')
```

Note: The available `all` listing argument conflicts with the `python-gitlab` argument. Use `query_parameters` to avoid the conflict:

```
commits = project.commits.list(all=True,
                               query_parameters={'ref_name': 'my_branch'})
```

Create a commit:

```
# See https://docs.gitlab.com/ce/api/commits.html#create-a-commit-with-multiple-files-
# and-actions
# for actions detail
data = {
    'branch': 'main',
    'commit_message': 'blah blah blah',
    'actions': [
        {
            'action': 'create',
            'file_path': 'README.rst',
            'content': open('path/to/file.rst').read(),
        },
        {
            # Binary files need to be base64 encoded
            'action': 'create',
            'file_path': 'logo.png',
            'content': base64.b64encode(open('logo.png').read()),
            'encoding': 'base64',
        }
    ]
}

commit = project.commits.create(data)
```

Get a commit detail:

```
commit = project.commits.get('e3d5a71b')
```

Get the diff for a commit:

```
diff = commit.diff()
```

Cherry-pick a commit into another branch:

```
commit.cherry_pick(branch='target_branch')
```

Revert a commit on a given branch:

```
commit.revert(branch='target_branch')
```

Get the references the commit has been pushed to (branches and tags):

```
commit.refs() # all references
commit.refs('tag') # only tags
commit.refs('branch') # only branches
```

Get the signature of the commit (if the commit was signed, e.g. with GPG or x509):

```
commit.signature()
```

List the merge requests related to a commit:

```
commit.merge_requests()
```

Commit comments

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectCommitComment`
 - `gitlab.v4.objects.ProjectCommitCommentManager`
 - `gitlab.v4.objects.ProjectCommit.comments`
- GitLab API: <https://docs.gitlab.com/ce/api/commits.html>

Examples

Get the comments for a commit:

```
comments = commit.comments.list()
```

Add a comment on a commit:

```
# Global comment
commit = commit.comments.create({'note': 'This is a nice comment'})
# Comment on a line in a file (on the new version of the file)
commit = commit.comments.create({'note': 'This is another comment',
                                'line': 12,
                                'line_type': 'new',
                                'path': 'README.rst'})
```

Commit status

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectCommitStatus*
 - *gitlab.v4.objects.ProjectCommitStatusManager*
 - *gitlab.v4.objects.ProjectCommit.statuses*
- GitLab API: <https://docs.gitlab.com/ce/api/commits.html>

Examples

List the statuses for a commit:

```
statuses = commit.statuses.list()
```

Change the status of a commit:

```
commit.statuses.create({'state': 'success'})
```

6.4.10 Deploy keys

Deploy keys

Reference

- v4 API:
 - *gitlab.v4.objects.DeployKey*
 - *gitlab.v4.objects.DeployKeyManager*
 - *gitlab.Gitlab.deploykeys*
- GitLab API: https://docs.gitlab.com/ce/api/deploy_keys.html

Examples

List the deploy keys:

```
keys = gl.deploykeys.list()
```

Deploy keys for projects

Deploy keys can be managed on a per-project basis.

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectKey`
 - `gitlab.v4.objects.ProjectKeyManager`
 - `gitlab.v4.objects.Project.keys`
- GitLab API: https://docs.gitlab.com/ce/api/deploy_keys.html

Examples

List keys for a project:

```
keys = project.keys.list()
```

Get a single deploy key:

```
key = project.keys.get(key_id)
```

Create a deploy key for a project:

```
key = project.keys.create({'title': 'jenkins key',  
                           'key': open('/home/me/.ssh/id_rsa.pub').read()})
```

Delete a deploy key for a project:

```
key = project.keys.list(key_id)  
# or  
key.delete()
```

Enable a deploy key for a project:

```
project.keys.enable(key_id)
```

Disable a deploy key for a project:

```
project.keys.delete(key_id)
```

6.4.11 Deploy tokens

Deploy tokens allow read-only access to your repository and registry images without having a user and a password.

Deploy tokens

This endpoint requires admin access.

Reference

- v4 API:
 - *gitlab.v4.objects.DeployToken*
 - *gitlab.v4.objects.DeployTokenManager*
 - *gitlab.Gitlab.deploytokens*
- GitLab API: https://docs.gitlab.com/ce/api/deploy_tokens.html

Examples

Use the `list()` method to list all deploy tokens across the GitLab instance.

```
# List deploy tokens
deploy_tokens = gl.deploytokens.list()
```

Project deploy tokens

This endpoint requires project maintainer access or higher.

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectDeployToken*
 - *gitlab.v4.objects.ProjectDeployTokenManager*
 - *gitlab.v4.objects.Project.deploytokens*
- GitLab API: https://docs.gitlab.com/ce/api/deploy_tokens.html#project-deploy-tokens

Examples

List the deploy tokens for a project:

```
deploy_tokens = project.deploytokens.list()
```

Get a deploy token for a project by id:

```
deploy_token = project.deploytokens.get(deploy_token_id)
```

Create a new deploy token to access registry images of a project:

In addition to required parameters `name` and `scopes`, this method accepts the following parameters:

- `expires_at` Expiration date of the deploy token. Does not expire if no value is provided.
- `username` Username for deploy token. Default is `gitlab+deploy-token-{n}`

```
deploy_token = project.deploytokens.create({'name': 'token1', 'scopes': ['read_registry',
↪], 'username': '', 'expires_at': ''})
# show its id
print(deploy_token.id)
# show the token value. Make sure you save it, you won't be able to access it again.
print(deploy_token.token)
```

Warning: With GitLab 12.9, even though `username` and `expires_at` are not required, they always have to be passed to the API. You can set them to empty strings, see: <https://gitlab.com/gitlab-org/gitlab/-/issues/211878>. Also, the `username`'s value is ignored by the API and will be overridden with `gitlab+deploy-token-{n}`, see: <https://gitlab.com/gitlab-org/gitlab/-/issues/211963> These issues were fixed in GitLab 12.10.

Remove a deploy token from the project:

```
deploy_token.delete()
# or
project.deploytokens.delete(deploy_token.id)
```

Group deploy tokens

Reference

- v4 API:
 - `gitlab.v4.objects.GroupDeployToken`
 - `gitlab.v4.objects.GroupDeployTokenManager`
 - `gitlab.v4.objects.Group.deploytokens`
- GitLab API: https://docs.gitlab.com/ce/api/deploy_tokens.html#group-deploy-tokens

Examples

List the deploy tokens for a group:

```
deploy_tokens = group.deploytokens.list()
```

Get a deploy token for a group by id:

```
deploy_token = group.deploytokens.get(deploy_token_id)
```

Create a new deploy token to access all repositories of all projects in a group:

In addition to required parameters `name` and `scopes`, this method accepts the following parameters:

- `expires_at` Expiration date of the deploy token. Does not expire if no value is provided.
- `username` Username for deploy token. Default is `gitlab+deploy-token-{n}`

```
deploy_token = group.deploytokens.create({'name': 'token1', 'scopes': ['read_repository',  
↪ ], 'username': '', 'expires_at': ''})  
# show its id  
print(deploy_token.id)
```

Warning: With GitLab 12.9, even though `username` and `expires_at` are not required, they always have to be passed to the API. You can set them to empty strings, see: <https://gitlab.com/gitlab-org/gitlab/-/issues/211878>. Also, the `username`'s value is ignored by the API and will be overridden with `gitlab+deploy-token-{n}`, see: <https://gitlab.com/gitlab-org/gitlab/-/issues/211963> These issues were fixed in GitLab 12.10.

Remove a deploy token from the group:

```
deploy_token.delete()  
# or  
group.deploytokens.delete(deploy_token.id)
```

6.4.12 Deployments

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectDeployment`
 - `gitlab.v4.objects.ProjectDeploymentManager`
 - `gitlab.v4.objects.Project.deployments`
- GitLab API: <https://docs.gitlab.com/ce/api/deployments.html>

Examples

List deployments for a project:

```
deployments = project.deployments.list()
```

Get a single deployment:

```
deployment = project.deployments.get(deployment_id)
```

Create a new deployment:

```
deployment = project.deployments.create({
    "environment": "Test",
    "sha": "1agf4gs",
    "ref": "main",
    "tag": False,
    "status": "created",
})
```

Update a deployment:

```
deployment = project.deployments.get(42)
deployment.status = "failed"
deployment.save()
```

Merge requests associated with a deployment

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectDeploymentMergeRequest*
 - *gitlab.v4.objects.ProjectDeploymentMergeRequestManager*
 - *gitlab.v4.objects.ProjectDeployment.mergerequests*
- GitLab API: <https://docs.gitlab.com/ee/api/deployments.html#list-of-merge-requests-associated-with-a-deployment>

Examples

List the merge requests associated with a deployment:

```
deployment = project.deployments.get(42, lazy=True)
mrs = deployment.mergerequests.list()
```

6.4.13 Discussions

Discussions organize the notes in threads. See the *Notes* chapter for more information about notes.

Discussions are available for project issues, merge requests, snippets and commits.

Reference

- v4 API:

Issues:

- `gitlab.v4.objects.ProjectIssueDiscussion`
- `gitlab.v4.objects.ProjectIssueDiscussionManager`
- `gitlab.v4.objects.ProjectIssueDiscussionNote`
- `gitlab.v4.objects.ProjectIssueDiscussionNoteManager`
- `gitlab.v4.objects.ProjectIssue.notes`

MergeRequests:

- `gitlab.v4.objects.ProjectMergeRequestDiscussion`
- `gitlab.v4.objects.ProjectMergeRequestDiscussionManager`
- `gitlab.v4.objects.ProjectMergeRequestDiscussionNote`
- `gitlab.v4.objects.ProjectMergeRequestDiscussionNoteManager`
- `gitlab.v4.objects.ProjectMergeRequest.notes`

Snippets:

- `gitlab.v4.objects.ProjectSnippetDiscussion`
- `gitlab.v4.objects.ProjectSnippetDiscussionManager`
- `gitlab.v4.objects.ProjectSnippetDiscussionNote`
- `gitlab.v4.objects.ProjectSnippetDiscussionNoteManager`
- `gitlab.v4.objects.ProjectSnippet.notes`

- GitLab API: <https://docs.gitlab.com/ce/api/discussions.html>

Examples

List the discussions for a resource (issue, merge request, snippet or commit):

```
discussions = resource.discussions.list()
```

Get a single discussion:

```
discussion = resource.discussions.get(discussion_id)
```

You can access the individual notes in the discussion through the `notes` attribute. It holds a list of notes in chronological order:

```
# ``resource.notes`` is a DiscussionNoteManager, so we need to get the
# object notes using ``attributes``
for note in discussion.attributes['notes']:
    print(note['body'])
```

Note: The notes are dicts, not objects.

You can add notes to existing discussions:

```
new_note = discussion.notes.create({'body': 'Episode IV: A new note'})
```

You can get and update a single note using the `*DiscussionNote` resources:

```
discussion = resource.discussions.get(discussion_id)
# Get the latest note's id
note_id = discussion.attributes['notes'][-1]['id']
last_note = discussion.notes.get(note_id)
last_note.body = 'Updated comment'
last_note.save()
```

Create a new discussion:

```
discussion = resource.discussions.create({'body': 'First comment of discussion'})
```

You can comment on merge requests and commit diffs. Provide the `position` dict to define where the comment should appear in the diff:

```
mr_diff = mr.diff.get(diff_id)
mr.discussions.create({'body': 'Note content',
                      'position': {
                          'base_sha': mr_diff.base_commit_sha,
                          'start_sha': mr_diff.start_commit_sha,
                          'head_sha': mr_diff.head_commit_sha,
                          'position_type': 'text',
                          'new_line': 1,
                          'old_path': 'README.rst',
                          'new_path': 'README.rst'
                      }})
```

Resolve / unresolve a merge request discussion:

```
mr_d = mr.discussions.get(d_id)
mr_d.resolved = True # True to resolve, False to unresolve
mr_d.save()
```

Delete a comment:

```
discussions.notes.delete(note_id)
# or
note.delete()
```

6.4.14 Environments

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectEnvironment`
 - `gitlab.v4.objects.ProjectEnvironmentManager`
 - `gitlab.v4.objects.Project.environments`
- GitLab API: <https://docs.gitlab.com/ce/api/environments.html>

Examples

List environments for a project:

```
environments = project.environments.list()
```

Create an environment for a project:

```
environment = project.environments.create({'name': 'production'})
```

Retrieve a specific environment for a project:

```
environment = project.environments.get(112)
```

Update an environment for a project:

```
environment.external_url = 'http://foo.bar.com'  
environment.save()
```

Delete an environment for a project:

```
environment = project.environments.delete(environment_id)  
# or  
environment.delete()
```

Stop an environments:

```
environment.stop()
```

6.4.15 Events

Events

Reference

- v4 API:
 - `gitlab.v4.objects.Event`
 - `gitlab.v4.objects.EventManager`
 - `gitlab.Gitlab.events`

- `gitlab.v4.objects.ProjectEvent`
 - `gitlab.v4.objects.ProjectEventManager`
 - `gitlab.v4.objects.Project.events`
 - `gitlab.v4.objects.UserEvent`
 - `gitlab.v4.objects.UserEventManager`
 - `gitlab.v4.objects.User.events`
- GitLab API: <https://docs.gitlab.com/ce/api/events.html>

Examples

You can list events for an entire Gitlab instance (admin), users and projects. You can filter you events you want to retrieve using the `action` and `target_type` attributes. The possible values for these attributes are available on [the gitlab documentation](#).

List all the events (paginated):

```
events = gl.events.list()
```

List the issue events on a project:

```
events = project.events.list(target_type='issue')
```

List the user events:

```
events = project.events.list()
```

Resource state events

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectIssueResourceStateEvent`
 - `gitlab.v4.objects.ProjectIssueResourceStateEventManager`
 - `gitlab.v4.objects.ProjectIssue.resourcestateevents`
 - `gitlab.v4.objects.ProjectMergeRequestResourceStateEvent`
 - `gitlab.v4.objects.ProjectMergeRequestResourceStateEventManager`
 - `gitlab.v4.objects.ProjectMergeRequest.resourcestateevents`
- GitLab API: https://docs.gitlab.com/ee/api/resource_state_events.html

Examples

You can list and get specific resource state events (via their id) for project issues and project merge requests.

List the state events of a project issue (paginated):

```
state_events = issue.resourcestateevents.list()
```

Get a specific state event of a project issue by its id:

```
state_event = issue.resourcestateevents.get(1)
```

List the state events of a project merge request (paginated):

```
state_events = mr.resourcestateevents.list()
```

Get a specific state event of a project merge request by its id:

```
state_event = mr.resourcestateevents.get(1)
```

6.4.16 Epics

Epics

Reference

- v4 API:
 - `gitlab.v4.objects.GroupEpic`
 - `gitlab.v4.objects.GroupEpicManager`
 - `gitlab.Gitlab.Group.epics`
- GitLab API: <https://docs.gitlab.com/ee/api/epics.html> (EE feature)

Examples

List the epics for a group:

```
epics = groups.epics.list()
```

Get a single epic for a group:

```
epic = group.epics.get(epic_iid)
```

Create an epic for a group:

```
epic = group.epics.create({'title': 'My Epic'})
```

Edit an epic:

```
epic.title = 'New title'  
epic.labels = ['label1', 'label2']  
epic.save()
```

Delete an epic:

```
epic.delete()
```

Epics issues

Reference

- v4 API:
 - *gitlab.v4.objects.GroupEpicIssue*
 - *gitlab.v4.objects.GroupEpicIssueManager*
 - *gitlab.Gitlab.GroupEpic.issues*
- GitLab API: https://docs.gitlab.com/ee/api/epic_issues.html (EE feature)

Examples

List the issues associated with an issue:

```
ei = epic.issues.list()
```

Associate an issue with an epic:

```
# use the issue id, not its iid
ei = epic.issues.create({'issue_id': 4})
```

Move an issue in the list:

```
ei.move_before_id = epic_issue_id_1
# or
ei.move_after_id = epic_issue_id_2
ei.save()
```

Delete an issue association:

```
ei.delete()
```

6.4.17 Features flags

Reference

- v4 API:
 - *gitlab.v4.objects.Feature*
 - *gitlab.v4.objects.FeatureManager*
 - *gitlab.Gitlab.features*
- GitLab API: <https://docs.gitlab.com/ce/api/features.html>

Examples

List features:

```
features = gl.features.list()
```

Create or set a feature:

```
feature = gl.features.set(feature_name, True)
feature = gl.features.set(feature_name, 30)
feature = gl.features.set(feature_name, True, user=filipowm)
feature = gl.features.set(feature_name, 40, group=mygroup)
```

Delete a feature:

```
feature.delete()
```

6.4.18 Geo nodes

Reference

- v4 API:
 - *gitlab.v4.objects.GeoNode*
 - *gitlab.v4.objects.GeoNodeManager*
 - *gitlab.Gitlab.geonodes*
- GitLab API: https://docs.gitlab.com/ee/api/geo_nodes.html (EE feature)

Examples

List the geo nodes:

```
nodes = gl.geonodes.list()
```

Get the status of all the nodes:

```
status = gl.geonodes.status()
```

Get a specific node and its status:

```
node = gl.geonodes.get(node_id)
node.status()
```

Edit a node configuration:

```
node.url = 'https://secondary.mygitlab.domain'
node.save()
```

Delete a node:

```
node.delete()
```

List the sync failure on the current node:

```
failures = gl.geonodes.current_failures()
```

6.4.19 Groups

Groups

Reference

- v4 API:
 - `gitlab.v4.objects.Group`
 - `gitlab.v4.objects.GroupManager`
 - `gitlab.Gitlab.groups`
- GitLab API: <https://docs.gitlab.com/ce/api/groups.html>

Examples

List the groups:

```
groups = gl.groups.list()
```

Get a group's detail:

```
group = gl.groups.get(group_id)
```

List a group's projects:

```
projects = group.projects.list()
```

Note: `GroupProject` objects returned by this API call are very limited, and do not provide all the features of `Project` objects. If you need to manipulate projects, create a new `Project` object:

```
first_group_project = group.projects.list()[0]
manageable_project = gl.projects.get(first_group_project.id, lazy=True)
```

You can filter and sort the result using the following parameters:

- `archived`: limit by archived status
- `visibility`: limit by visibility. Allowed values are `public`, `internal` and `private`
- `search`: limit to groups matching the given value
- `order_by`: sort by criteria. Allowed values are `id`, `name`, `path`, `created_at`, `updated_at` and `last_activity_at`
- `sort`: sort order: `asc` or `desc`
- `ci_enabled_first`: return CI enabled groups first
- `include_subgroups`: include projects in subgroups

Create a group:

```
group = gl.groups.create({'name': 'group1', 'path': 'group1'})
```

Create a subgroup under an existing group:

```
subgroup = gl.groups.create({'name': 'subgroup1', 'path': 'subgroup1', 'parent_id':  
↪parent_group_id})
```

Update a group:

```
group.description = 'My awesome group'  
group.save()
```

Set the avatar image for a group:

```
# the avatar image can be passed as data (content of the file) or as a file  
# object opened in binary mode  
group.avatar = open('path/to/file.png', 'rb')  
group.save()
```

Remove a group:

```
gl.groups.delete(group_id)  
# or  
group.delete()
```

Share/unshare the group with a group:

```
group.share(group2.id, gitlab.const.DEVELOPER_ACCESS)  
group.unshare(group2.id)
```

Import / Export

You can export groups from gitlab, and re-import them to create new groups.

Reference

- v4 API:
 - `gitlab.v4.objects.GroupExport`
 - `gitlab.v4.objects.GroupExportManager`
 - `gitlab.v4.objects.Group.exports`
 - `gitlab.v4.objects.GroupImport`
 - `gitlab.v4.objects.GroupImportManager`
 - `gitlab.v4.objects.Group.imports`
 - `gitlab.v4.objects.GroupManager.import_group`
- GitLab API: https://docs.gitlab.com/ce/api/group_import_export.html

Examples

A group export is an asynchronous operation. To retrieve the archive generated by GitLab you need to:

1. Create an export using the API
2. Wait for the export to be done
3. Download the result

Warning: Unlike the Project Export API, GitLab does not provide an `export_status` for Group Exports. It is up to the user to ensure the export is finished.

However, Group Exports only contain metadata, so they are much faster than Project Exports.

```
# Create the export
group = gl.groups.get(my_group)
export = group.exports.create()

# Wait for the export to finish
time.sleep(3)

# Download the result
with open('/tmp/export.tgz', 'wb') as f:
    export.download(streamed=True, action=f.write)
```

Import the group:

```
with open('/tmp/export.tgz', 'rb') as f:
    gl.groups.import_group(f, path='imported-group', name="Imported Group")
```

Subgroups

Reference

- v4 API:
 - `gitlab.v4.objects.GroupSubgroup`
 - `gitlab.v4.objects.GroupSubgroupManager`
 - `gitlab.v4.objects.Group.subgroups`

Examples

List the subgroups for a group:

```
subgroups = group.subgroups.list()
```

Note: The `GroupSubgroup` objects don't expose the same API as the `Group` objects. If you need to manipulate a subgroup as a group, create a new `Group` object:

```
real_group = gl.groups.get(subgroup_id, lazy=True)
real_group.issues.list()
```

Descendant Groups

Reference

- v4 API:
 - *gitlab.v4.objects.GroupDescendantGroup*
 - *gitlab.v4.objects.GroupDescendantGroupManager*
 - *gitlab.v4.objects.Group.descendant_groups*

Examples

List the descendant groups of a group:

```
descendant_groups = group.descendant_groups.list()
```

Note: Like the GroupSubgroup objects described above, GroupDescendantGroup objects do not expose the same API as the Group objects. Create a new Group object instead if needed, as shown in the subgroup example.

Group custom attributes

Reference

- v4 API:
 - *gitlab.v4.objects.GroupCustomAttribute*
 - *gitlab.v4.objects.GroupCustomAttributeManager*
 - *gitlab.v4.objects.Group.customattributes*
- GitLab API: https://docs.gitlab.com/ce/api/custom_attributes.html

Examples

List custom attributes for a group:

```
attrs = group.customattributes.list()
```

Get a custom attribute for a group:

```
attr = group.customattributes.get(attr_key)
```

Set (create or update) a custom attribute for a group:

```
attr = group.customattributes.set(attr_key, attr_value)
```

Delete a custom attribute for a group:

```
attr.delete()
# or
group.customattributes.delete(attr_key)
```

Search groups by custom attribute:

```
group.customattributes.set('role': 'admin')
gl.groups.list(custom_attributes={'role': 'admin'})
```

Group members

The following constants define the supported access levels:

- `gitlab.const.GUEST_ACCESS = 10`
- `gitlab.const.REPORTER_ACCESS = 20`
- `gitlab.const.DEVELOPER_ACCESS = 30`
- `gitlab.const.MAINTAINER_ACCESS = 40`
- `gitlab.const.OWNER_ACCESS = 50`

Reference

- v4 API:
 - `gitlab.v4.objects.GroupMember`
 - `gitlab.v4.objects.GroupMemberManager`
 - `gitlab.v4.objects.GroupMemberAllManager`
 - `gitlab.v4.objects.GroupBillableMember`
 - `gitlab.v4.objects.GroupBillableMemberManager`
 - `gitlab.v4.objects.Group.members`
 - `gitlab.v4.objects.Group.members_all`
 - `gitlab.v4.objects.Group.billable_members`
- GitLab API: <https://docs.gitlab.com/ce/api/members.html>

Billable group members are only available in GitLab EE.

Examples

List only direct group members:

```
members = group.members.list()
```

List the group members recursively (including inherited members through ancestor groups):

```
members = group.members_all.list(all=True)
```

Get only direct group member:

```
members = group.members.get(member_id)
```

Get a member of a group, including members inherited through ancestor groups:

```
members = group.members_all.get(member_id)
```

Add a member to the group:

```
member = group.members.create({'user_id': user_id,  
                               'access_level': gitlab.const.GUEST_ACCESS})
```

Update a member (change the access level):

```
member.access_level = gitlab.const.DEVELOPER_ACCESS  
member.save()
```

Remove a member from the group:

```
group.members.delete(member_id)  
# or  
member.delete()
```

List billable members of a group (top-level groups only):

```
billable_members = group.billable_members.list()
```

Remove a billable member from the group:

```
group.billable_members.delete(member_id)  
# or  
billable_member.delete()
```

List memberships of a billable member:

```
billable_member.memberships.list()
```

LDAP group links

Add an LDAP group link to an existing GitLab group:

```
group.add_ldap_group_link(ldap_group_cn, gitlab.const.DEVELOPER_ACCESS, 'ldapmain')
```

Remove a link:

```
group.delete_ldap_group_link(ldap_group_cn, 'ldapmain')
```

Sync the LDAP groups:

```
group.ldap_sync()
```

You can use the `ldapgroups` manager to list available LDAP groups:

```
# listing (supports pagination)
ldap_groups = gl.ldapgroups.list()

# filter using a group name
ldap_groups = gl.ldapgroups.list(search='foo')

# list the groups for a specific LDAP provider
ldap_groups = gl.ldapgroups.list(search='foo', provider='ldapmain')
```

Groups hooks

Reference

- v4 API:
 - `gitlab.v4.objects.GroupHook`
 - `gitlab.v4.objects.GroupHookManager`
 - `gitlab.v4.objects.Group.hooks`
- GitLab API: <https://docs.gitlab.com/ce/api/groups.html#hooks>

Examples

List the group hooks:

```
hooks = group.hooks.list()
```

Get a group hook:

```
hook = group.hooks.get(hook_id)
```

Create a group hook:

```
hook = group.hooks.create({'url': 'http://my/action/url', 'push_events': 1})
```

Update a group hook:

```
hook.push_events = 0
hook.save()
```

Delete a group hook:

```
group.hooks.delete(hook_id)
# or
hook.delete()
```

6.4.20 Group Access Tokens

Get a list of group access tokens

References

- v4 API:
 - *gitlab.v4.objects.GroupAccessToken*
 - *gitlab.v4.objects.GroupAccessTokenManager*
 - `gitlab.Gitlab.group_access_tokens`
- GitLab API: https://docs.gitlab.com/ee/api/group_access_tokens.html

Examples

List group access tokens:

```
access_tokens = gl.groups.get(1, lazy=True).access_tokens.list()
print(access_tokens[0].name)
```

Create group access token:

```
access_token = gl.groups.get(1).access_tokens.create({"name": "test", "scopes": ["api"]})
```

Revoke a group access tokens:

```
gl.groups.get(1).access_tokens.delete(42)
# or
access_token.delete()
```

6.4.21 Issues

Reported issues

Reference

- v4 API:
 - *gitlab.v4.objects.Issue*
 - *gitlab.v4.objects.IssueManager*

– `gitlab.Gitlab.issues`

- GitLab API: <https://docs.gitlab.com/ce/api/issues.html>

Examples

List the issues:

```
issues = gl.issues.list()
```

Use the `state` and `label` parameters to filter the results. Use the `order_by` and `sort` attributes to sort the results:

```
open_issues = gl.issues.list(state='opened')
closed_issues = gl.issues.list(state='closed')
tagged_issues = gl.issues.list(labels=['foo', 'bar'])
```

Note: It is not possible to edit or delete Issue objects. You need to create a `ProjectIssue` object to perform changes:

```
issue = gl.issues.list()[0]
project = gl.projects.get(issue.project_id, lazy=True)
editable_issue = project.issues.get(issue.iid, lazy=True)
editable_issue.title = updated_title
editable_issue.save()
```

Group issues

Reference

- v4 API:
 - `gitlab.v4.objects.GroupIssue`
 - `gitlab.v4.objects.GroupIssueManager`
 - `gitlab.v4.objects.Group.issues`
- GitLab API: <https://docs.gitlab.com/ce/api/issues.html>

Examples

List the group issues:

```
issues = group.issues.list()
# Filter using the state, labels and milestone parameters
issues = group.issues.list(milestone='1.0', state='opened')
# Order using the order_by and sort parameters
issues = group.issues.list(order_by='created_at', sort='desc')
```

Note: It is not possible to edit or delete `GroupIssue` objects. You need to create a `ProjectIssue` object to perform changes:

```
issue = group.issues.list()[0]
project = gl.projects.get(issue.project_id, lazy=True)
editable_issue = project.issues.get(issue.iid, lazy=True)
editable_issue.title = updated_title
editable_issue.save()
```

Project issues

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectIssue`
 - `gitlab.v4.objects.ProjectIssueManager`
 - `gitlab.v4.objects.Project.issues`
- GitLab API: <https://docs.gitlab.com/ce/api/issues.html>

Examples

List the project issues:

```
issues = project.issues.list()
# Filter using the state, labels and milestone parameters
issues = project.issues.list(milestone='1.0', state='opened')
# Order using the order_by and sort parameters
issues = project.issues.list(order_by='created_at', sort='desc')
```

Get a project issue:

```
issue = project.issues.get(issue_iid)
```

Create a new issue:

```
issue = project.issues.create({'title': 'I have a bug',
                              'description': 'Something useful here.'})
```

Update an issue:

```
issue.labels = ['foo', 'bar']
issue.save()
```

Close / reopen an issue:

```
# close an issue
issue.state_event = 'close'
issue.save()
# reopen it
issue.state_event = 'reopen'
issue.save()
```

Delete an issue (admin or project owner only):

```
project.issues.delete(issue_id)
# pr
issue.delete()
```

Subscribe / unsubscribe from an issue:

```
issue.subscribe()
issue.unsubscribe()
```

Move an issue to another project:

```
issue.move(other_project_id)
```

Make an issue as todo:

```
issue.todo()
```

Get time tracking stats:

```
issue.time_stats()
```

On recent versions of Gitlab the time stats are also returned as an issue object attribute:

```
issue = project.issue.get(iid)
print(issue.attributes['time_stats'])
```

Set a time estimate for an issue:

```
issue.time_estimate('3h30m')
```

Reset a time estimate for an issue:

```
issue.reset_time_estimate()
```

Add spent time for an issue:

```
issue.add_spent_time('3h30m')
```

Reset spent time for an issue:

```
issue.reset_spent_time()
```

Get user agent detail for the issue (admin only):

```
detail = issue.user_agent_detail()
```

Get the list of merge requests that will close an issue when merged:

```
mrs = issue.closed_by()
```

Get the merge requests related to an issue:

```
mrs = issue.related_merge_requests()
```

Get the list of participants:

```
users = issue.participants()
```

Issue links

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectIssueLink*
 - *gitlab.v4.objects.ProjectIssueLinkManager*
 - *gitlab.v4.objects.ProjectIssue.links*
- GitLab API: https://docs.gitlab.com/ee/api/issue_links.html (EE feature)

Examples

List the issues linked to `i1`:

```
links = i1.links.list()
```

Link issue `i1` to issue `i2`:

```
data = {
    'target_project_id': i2.project_id,
    'target_issue_iid': i2.iid
}
src_issue, dest_issue = i1.links.create(data)
```

Note: The `create()` method returns the source and destination `ProjectIssue` objects, not a `ProjectIssueLink` object.

Delete a link:

```
i1.links.delete(issue_link_id)
```

Issues statistics

Reference

- v4 API:
 - *gitlab.v4.objects.IssuesStatistics*
 - *gitlab.v4.objects.IssuesStatisticsManager*
 - *gitlab.issues_statistics*
 - *gitlab.v4.objects.GroupIssuesStatistics*
 - *gitlab.v4.objects.GroupIssuesStatisticsManager*

- `gitlab.v4.objects.Group.issues_statistics`
- `gitlab.v4.objects.ProjectIssuesStatistics`
- `gitlab.v4.objects.ProjectIssuesStatisticsManager`
- `gitlab.v4.objects.Project.issues_statistics`
- GitLab API: https://docs.gitlab.com/ce/api/issues_statistics.htm

Examples

Get statistics of all issues created by the current user:

```
statistics = gl.issues_statistics.get()
```

Get statistics of all issues the user has access to:

```
statistics = gl.issues_statistics.get(scope='all')
```

Get statistics of issues for the user with foobar in the title or the description:

```
statistics = gl.issues_statistics.get(search='foobar')
```

Get statistics of all issues in a group:

```
statistics = group.issues_statistics.get()
```

Get statistics of issues in a group with foobar in the title or the description:

```
statistics = group.issues_statistics.get(search='foobar')
```

Get statistics of all issues in a project:

```
statistics = project.issues_statistics.get()
```

Get statistics of issues in a project with foobar in the title or the description:

```
statistics = project.issues_statistics.get(search='foobar')
```

6.4.22 Keys

Keys

Reference

- v4 API
 - `gitlab.v4.objects.Key`
 - `gitlab.v4.objects.KeyManager`
 - `gitlab.Gitlab.keys`
- GitLab API: <https://docs.gitlab.com/ce/api/keys.html>

Examples

Get an ssh key by its id (requires admin access):

```
key = gl.keys.get(key_id)
```

Get an ssh key (requires admin access) or a deploy key by its fingerprint:

```
key = gl.keys.get(fingerprint="SHA256:ERJJ/OweAM6jA80jJ/gXs4N5fqUaREEJnz/EyfywfxY")
```

6.4.23 Issue boards

Boards

Boards are a visual representation of existing issues for a project or a group. Issues can be moved from one list to the other to track progress and help with priorities.

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectBoard*
 - *gitlab.v4.objects.ProjectBoardManager*
 - *gitlab.v4.objects.Project.boards*
 - *gitlab.v4.objects.GroupBoard*
 - *gitlab.v4.objects.GroupBoardManager*
 - *gitlab.v4.objects.Group.boards*
- GitLab API:
 - <https://docs.gitlab.com/ce/api/boards.html>
 - https://docs.gitlab.com/ce/api/group_boards.html

Examples

Get the list of existing boards for a project or a group:

```
# item is a Project or a Group
boards = project_or_group.boards.list()
```

Get a single board for a project or a group:

```
board = project_or_group.boards.get(board_id)
```

Create a board:

```
board = project_or_group.boards.create({'name': 'new-board'})
```

Note: Board creation is not supported in the GitLab CE edition.

Delete a board:

```
board.delete()
# or
project_or_group.boards.delete(board_id)
```

Note: Board deletion is not supported in the GitLab CE edition.

Board lists

Boards are made of lists of issues. Each list is associated to a label, and issues tagged with this label automatically belong to the list.

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectBoardList*
 - *gitlab.v4.objects.ProjectBoardListManager*
 - *gitlab.v4.objects.ProjectBoard.lists*
 - *gitlab.v4.objects.GroupBoardList*
 - *gitlab.v4.objects.GroupBoardListManager*
 - *gitlab.v4.objects.GroupBoard.lists*
- GitLab API:
 - <https://docs.gitlab.com/ce/api/boards.html>
 - https://docs.gitlab.com/ce/api/group_boards.html

Examples

List the issue lists for a board:

```
b_lists = board.lists.list()
```

Get a single list:

```
b_list = board.lists.get(list_id)
```

Create a new list:

```
# First get a ProjectLabel
label = get_or_create_label()
# Then use its ID to create the new board list
b_list = board.lists.create({'label_id': label.id})
```

Change a list position. The first list is at position 0. Moving a list will set it at the given position and move the following lists up a position:

```
b_list.position = 2
b_list.save()
```

Delete a list:

```
b_list.delete()
```

6.4.24 Labels

Project labels

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectLabel`
 - `gitlab.v4.objects.ProjectLabelManager`
 - `gitlab.v4.objects.Project.labels`
- GitLab API: <https://docs.gitlab.com/ce/api/labels.html>

Examples

List labels for a project:

```
labels = project.labels.list()
```

Create a label for a project:

```
label = project.labels.create({'name': 'foo', 'color': '#8899aa'})
```

Update a label for a project:

```
# change the name of the label:
label.new_name = 'bar'
label.save()
# change its color:
label.color = '#112233'
label.save()
```

Promote a project label to a group label:

```
label.promote()
```

Delete a label for a project:

```
project.labels.delete(label_id)
# or
label.delete()
```

Manage labels in issues and merge requests:

```
# Labels are defined as lists in issues and merge requests. The labels must
# exist.
issue = p.issues.create({'title': 'issue title',
                        'description': 'issue description',
                        'labels': ['foo']})
issue.labels.append('bar')
issue.save()
```

Label events

Resource label events keep track about who, when, and which label was added or removed to an issuable.

Group epic label events are only available in the EE edition.

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectIssueResourceLabelEvent`
 - `gitlab.v4.objects.ProjectIssueResourceLabelEventManager`
 - `gitlab.v4.objects.ProjectIssue.resourcelabelevents`
 - `gitlab.v4.objects.ProjectMergeRequestResourceLabelEvent`
 - `gitlab.v4.objects.ProjectMergeRequestResourceLabelEventManager`
 - `gitlab.v4.objects.ProjectMergeRequest.resourcelabelevents`
 - `gitlab.v4.objects.GroupEpicResourceLabelEvent`
 - `gitlab.v4.objects.GroupEpicResourceLabelEventManager`
 - `gitlab.v4.objects.GroupEpic.resourcelabelevents`
- GitLab API: https://docs.gitlab.com/ee/api/resource_label_events.html

Examples

Get the events for a resource (issue, merge request or epic):

```
events = resource.resourcelabelevents.list()
```

Get a specific event for a resource:

```
event = resource.resourcelabelevents.get(event_id)
```

6.4.25 Notification settings

You can define notification settings globally, for groups and for projects. Valid levels are defined as constants:

- `gitlab.const.NOTIFICATION_LEVEL_DISABLED`
- `gitlab.const.NOTIFICATION_LEVEL_PARTICIPATING`
- `gitlab.const.NOTIFICATION_LEVEL_WATCH`
- `gitlab.const.NOTIFICATION_LEVEL_GLOBAL`
- `gitlab.const.NOTIFICATION_LEVEL_MENTION`
- `gitlab.const.NOTIFICATION_LEVEL_CUSTOM`

You get access to fine-grained settings if you use the `NOTIFICATION_LEVEL_CUSTOM` level.

Reference

- v4 API:
 - `gitlab.v4.objects.NotificationSettings`
 - `gitlab.v4.objects.NotificationSettingsManager`
 - `gitlab.Gitlab.notificationsettings`
 - `gitlab.v4.objects.GroupNotificationSettings`
 - `gitlab.v4.objects.GroupNotificationSettingsManager`
 - `gitlab.v4.objects.Group.notificationsettings`
 - `gitlab.v4.objects.ProjectNotificationSettings`
 - `gitlab.v4.objects.ProjectNotificationSettingsManager`
 - `gitlab.v4.objects.Project.notificationsettings`
- GitLab API: https://docs.gitlab.com/ce/api/notification_settings.html

Examples

Get the notifications settings:

```
# global settings
settings = gl.notificationsettings.get()
# for a group
settings = gl.groups.get(group_id).notificationsettings.get()
# for a project
settings = gl.projects.get(project_id).notificationsettings.get()
```

Update the notifications settings:

```
# use a predefined level
settings.level = gitlab.const.NOTIFICATION_LEVEL_WATCH

# create a custom setup
settings.level = gitlab.const.NOTIFICATION_LEVEL_CUSTOM
settings.save() # will create additional attributes, but not mandatory
```

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```
settings.new_merge_request = True
settings.new_issue = True
settings.new_note = True
settings.save()
```

6.4.26 Merge Trains

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectMergeTrain*
 - *gitlab.v4.objects.ProjectMergeTrainManager*
 - *gitlab.v4.objects.Project.merge_trains*
- GitLab API: https://docs.gitlab.com/ee/api/merge_trains.html

Examples

List merge trains for a project:

```
merge_trains = project.merge_trains.list()
```

List active merge trains for a project:

```
merge_trains = project.merge_trains.list(scope="active")
```

List completed (have been merged) merge trains for a project:

```
merge_trains = project.merge_trains.list(scope="complete")
```

6.4.27 Merge requests

You can use merge requests to notify a project that a branch is ready for merging. The owner of the target project can accept the merge request.

Merge requests are linked to projects, but they can be listed globally or for groups.

Group and global listing

Reference

- v4 API:
 - *gitlab.v4.objects.GroupMergeRequest*
 - *gitlab.v4.objects.GroupMergeRequestManager*
 - *gitlab.v4.objects.Group.mergerequests*

- `gitlab.v4.objects.MergeRequest`
- `gitlab.v4.objects.MergeRequestManager`
- `gitlab.Gitlab.mergerequests`

- GitLab API: https://docs.gitlab.com/ce/api/merge_requests.html

Examples

List the merge requests created by the user of the token on the GitLab server:

```
mrs = gl.mergerequests.list()
```

List the merge requests available on the GitLab server:

```
mrs = gl.mergerequests.list(scope="all")
```

List the merge requests for a group:

```
group = gl.groups.get('mygroup')
mrs = group.mergerequests.list()
```

Note: It is not possible to edit or delete `MergeRequest` and `GroupMergeRequest` objects. You need to create a `ProjectMergeRequest` object to apply changes:

```
mr = group.mergerequests.list()[0]
project = gl.projects.get(mr.project_id, lazy=True)
editable_mr = project.mergerequests.get(mr.iid, lazy=True)
editable_mr.title = updated_title
editable_mr.save()
```

Project merge requests

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectMergeRequest`
 - `gitlab.v4.objects.ProjectMergeRequestManager`
 - `gitlab.v4.objects.Project.mergerequests`
- GitLab API: https://docs.gitlab.com/ce/api/merge_requests.html

Examples

List MRs for a project:

```
mrs = project.mergerequests.list()
```

You can filter and sort the returned list with the following parameters:

- `state`: state of the MR. It can be one of `all`, `merged`, `opened` or `closed`
- `order_by`: sort by `created_at` or `updated_at`
- `sort`: sort order (`asc` or `desc`)

For example:

```
mrs = project.mergerequests.list(state='merged', order_by='updated_at')
```

Get a single MR:

```
mr = project.mergerequests.get(mr_id)
```

Create a MR:

```
mr = project.mergerequests.create({'source_branch': 'cool_feature',
                                   'target_branch': 'main',
                                   'title': 'merge cool feature',
                                   'labels': ['label1', 'label2']})
```

Update a MR:

```
mr.description = 'New description'
mr.labels = ['foo', 'bar']
mr.save()
```

Change the state of a MR (close or reopen):

```
mr.state_event = 'close' # or 'reopen'
mr.save()
```

Delete a MR:

```
project.mergerequests.delete(mr_id)
# or
mr.delete()
```

Accept a MR:

```
mr.merge()
```

Cancel a MR when the build succeeds:

```
mr.cancel_merge_when_pipeline_succeeds()
```

List commits of a MR:

```
commits = mr.commits()
```

List the changes of a MR:

```
changes = mr.changes()
```

List issues that will close on merge:

```
mr.closes_issues()
```

Subscribe to / unsubscribe from a MR:

```
mr.subscribe()  
mr.unsubscribe()
```

Mark a MR as todo:

```
mr.todo()
```

List the diffs for a merge request:

```
diffs = mr.diffs.list()
```

Get a diff for a merge request:

```
diff = mr.diffs.get(diff_id)
```

Get time tracking stats:

```
time_stats = mr.time_stats()
```

On recent versions of Gitlab the time stats are also returned as a merge request object attribute:

```
mr = project.mergerequests.get(id)  
print(mr.attributes['time_stats'])
```

Set a time estimate for a merge request:

```
mr.time_estimate('3h30m')
```

Reset a time estimate for a merge request:

```
mr.reset_time_estimate()
```

Add spent time for a merge request:

```
mr.add_spent_time('3h30m')
```

Reset spent time for a merge request:

```
mr.reset_spent_time()
```

Get user agent detail for the issue (admin only):

```
detail = issue.user_agent_detail()
```

Attempt to rebase an MR:

```
mr.rebase()
```

Get status of a rebase for an MR:

```
mr = project.mergerequests.get(mr_id, include_rebase_in_progress=True)
print(mr.rebase_in_progress, mr.merge_error)
```

For more info see: https://docs.gitlab.com/ee/api/merge_requests.html#rebase-a-merge-request

Attempt to merge changes between source and target branch:

```
response = mr.merge_ref()
print(response['commit_id'])
```

Merge Request Pipelines

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectMergeRequestPipeline*
 - *gitlab.v4.objects.ProjectMergeRequestPipelineManager*
 - *gitlab.v4.objects.ProjectMergeRequest.pipelines*
- GitLab API: https://docs.gitlab.com/ee/api/merge_requests.html#list-mr-pipelines

Examples

List pipelines for a merge request:

```
pipelines = mr.pipelines.list()
```

Create a pipeline for a merge request:

```
pipeline = mr.pipelines.create()
```

6.4.28 Merge request approvals settings

Merge request approvals can be defined at the project level or at the merge request level.

References

- v4 API:
 - `gitlab.v4.objects.ProjectApproval`
 - `gitlab.v4.objects.ProjectApprovalManager`
 - `gitlab.v4.objects.ProjectApprovalRule`
 - `gitlab.v4.objects.ProjectApprovalRuleManager`
 - `gitlab.v4.objects.Project.approvals`
 - `gitlab.v4.objects.ProjectMergeRequestApproval`
 - `gitlab.v4.objects.ProjectMergeRequestApprovalManager`
 - `gitlab.v4.objects.ProjectMergeRequest.approvals`
 - `gitlab.v4.objects.ProjectMergeRequestApprovalRule`
 - `gitlab.v4.objects.ProjectMergeRequestApprovalRuleManager`
 - `gitlab.v4.objects.ProjectMergeRequest.approval_rules`
 - `gitlab.v4.objects.ProjectMergeRequestApprovalState`
 - `gitlab.v4.objects.ProjectMergeRequestApprovalStateManager`
 - `gitlab.v4.objects.ProjectMergeRequest.approval_state`
- GitLab API: https://docs.gitlab.com/ee/api/merge_request_approvals.html

Examples

List project-level MR approval rules:

```
p_mras = project.approvalrules.list()
```

Change project-level MR approval rule:

```
p_approvalrule.user_ids = [234]
p_approvalrule.save()
```

Delete project-level MR approval rule:

```
p_approvalrule.delete()
```

Get project-level or MR-level MR approvals settings:

```
p_mras = project.approvals.get()
mr_mras = mr.approvals.get()
```

Get MR-level approval state:

```
mr_approval_state = mr.approval_state.get()
```

Change project-level or MR-level MR approvals settings:

```
p_mras.approvals_before_merge = 2
p_mras.save()

mr_mras.set_approvers(approvals_required = 1)
```

Change project-level MR allowed approvers:

```
project.approvals.set_approvers(approver_ids=[105],
                                approver_group_ids=[653, 654])
```

Create a new MR-level approval rule or change an existing MR-level approval rule:

```
mr.approvals.set_approvers(approvals_required = 1, approver_ids=[105],
                           approver_group_ids=[653, 654],
                           approval_rule_name="my MR custom approval rule")
```

List MR-level MR approval rules:

```
mr.approval_rules.list()
```

Delete MR-level MR approval rule:

```
rules = mr.approval_rules.list()
rules[0].delete()

# or
mr.approval_rules.delete(approval_id)
```

Change MR-level MR approval rule:

```
mr_approvalrule.user_ids = [105]
mr_approvalrule.approvals_required = 2
mr_approvalrule.group_ids = [653, 654]
mr_approvalrule.save()
```

Create a MR-level MR approval rule:

```
mr.approval_rules.create({
    "name": "my MR custom approval rule",
    "approvals_required": 2,
    "rule_type": "regular",
    "user_ids": [105],
    "group_ids": [653, 654],
})
```

6.4.29 Milestones

Project milestones

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectMilestone`
 - `gitlab.v4.objects.ProjectMilestoneManager`
 - `gitlab.v4.objects.Project.milestones`
 - `gitlab.v4.objects.GroupMilestone`
 - `gitlab.v4.objects.GroupMilestoneManager`
 - `gitlab.v4.objects.Group.milestones`
- GitLab API:
 - <https://docs.gitlab.com/ce/api/milestones.html>
 - https://docs.gitlab.com/ce/api/group_milestones.html

Examples

List the milestones for a project or a group:

```
p_milestones = project.milestones.list()
g_milestones = group.milestones.list()
```

You can filter the list using the following parameters:

- `iids`: unique IDs of milestones for the project
- `state`: either `active` or `closed`
- `search`: to search using a string

```
p_milestones = project.milestones.list(state='closed')
g_milestones = group.milestones.list(state='active')
```

Get a single milestone:

```
p_milestone = project.milestones.get(milestone_id)
g_milestone = group.milestones.get(milestone_id)
```

Create a milestone:

```
milestone = project.milestones.create({'title': '1.0'})
```

Edit a milestone:

```
milestone.description = 'v 1.0 release'
milestone.save()
```

Change the state of a milestone (activate / close):

```
# close a milestone
milestone.state_event = 'close'
milestone.save()

# activate a milestone
milestone.state_event = 'activate'
milestone.save()
```

Promote a project milestone:

```
milestone.promote()
```

List the issues related to a milestone:

```
issues = milestone.issues()
```

List the merge requests related to a milestone:

```
merge_requests = milestone.merge_requests()
```

Milestone events

Resource milestone events keep track of what happens to GitLab issues and merge requests.

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectIssueResourceMilestoneEvent`
 - `gitlab.v4.objects.ProjectIssueResourceMilestoneEventManager`
 - `gitlab.v4.objects.ProjectIssue.resourcemilestoneevents`
 - `gitlab.v4.objects.ProjectMergeRequestResourceMilestoneEvent`
 - `gitlab.v4.objects.ProjectMergeRequestResourceMilestoneEventManager`
 - `gitlab.v4.objects.ProjectMergeRequest.resourcemilestoneevents`
- GitLab API: https://docs.gitlab.com/ee/api/resource_milestone_events.html

Examples

Get milestones for a resource (issue, merge request):

```
milestones = resource.resourcemilestoneevents.list()
```

Get a specific milestone for a resource:

```
milestone = resource.resourcemilestoneevents.get(milestone_id)
```

6.4.30 Namespaces

Reference

- v4 API:
 - `gitlab.v4.objects.Namespace`
 - `gitlab.v4.objects.NamespaceManager`
 - `gitlab.Gitlab.namespaces`
- GitLab API: <https://docs.gitlab.com/ce/api/namespaces.html>

Examples

List namespaces:

```
namespaces = gl.namespaces.list()
```

Search namespaces:

```
namespaces = gl.namespaces.list(search='foo')
```

6.4.31 Notes

You can manipulate notes (comments) on group epics, project issues, merge requests and snippets.

Reference

- v4 API:
 - Epics:
 - `gitlab.v4.objects.GroupEpicNote`
 - `gitlab.v4.objects.GroupEpicNoteManager`
 - `gitlab.v4.objects.GroupEpic.notes`
 - Issues:
 - `gitlab.v4.objects.ProjectIssueNote`
 - `gitlab.v4.objects.ProjectIssueNoteManager`
 - `gitlab.v4.objects.ProjectIssue.notes`
 - MergeRequests:
 - `gitlab.v4.objects.ProjectMergeRequestNote`
 - `gitlab.v4.objects.ProjectMergeRequestNoteManager`
 - `gitlab.v4.objects.ProjectMergeRequest.notes`
 - Snippets:
 - `gitlab.v4.objects.ProjectSnippetNote`
 - `gitlab.v4.objects.ProjectSnippetNoteManager`

– *gitlab.v4.objects.ProjectSnippet.notes*

- GitLab API: <https://docs.gitlab.com/ce/api/notes.html>

Examples

List the notes for a resource:

```
e_notes = epic.notes.list()
i_notes = issue.notes.list()
mr_notes = mr.notes.list()
s_notes = snippet.notes.list()
```

Get a note for a resource:

```
e_note = epic.notes.get(note_id)
i_note = issue.notes.get(note_id)
mr_note = mr.notes.get(note_id)
s_note = snippet.notes.get(note_id)
```

Create a note for a resource:

```
e_note = epic.notes.create({'body': 'note content'})
i_note = issue.notes.create({'body': 'note content'})
mr_note = mr.notes.create({'body': 'note content'})
s_note = snippet.notes.create({'body': 'note content'})
```

Update a note for a resource:

```
note.body = 'updated note content'
note.save()
```

Delete a note for a resource:

```
note.delete()
```

6.4.32 Packages

Packages allow you to utilize GitLab as a private repository for a variety of common package managers, as well as GitLab's generic package registry.

Project Packages

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectPackage*
 - *gitlab.v4.objects.ProjectPackageManager*
 - *gitlab.v4.objects.Project.packages*
- GitLab API: <https://docs.gitlab.com/ee/api/packages.html#within-a-project>

Examples

List the packages in a project:

```
packages = project.packages.list()
```

Filter the results by `package_type` or `package_name`

```
packages = project.packages.list(package_type='pypi')
```

Get a specific package of a project by id:

```
package = project.packages.get(1)
```

Delete a package from a project:

```
package.delete()  
# or  
project.packages.delete(package.id)
```

Group Packages

Reference

- v4 API:
 - `gitlab.v4.objects.GroupPackage`
 - `gitlab.v4.objects.GroupPackageManager`
 - `gitlab.v4.objects.Group.packages`
- GitLab API: <https://docs.gitlab.com/ee/api/packages.html#within-a-group>

Examples

List the packages in a group:

```
packages = group.packages.list()
```

Filter the results by `package_type` or `package_name`

```
packages = group.packages.list(package_type='pypi')
```

Project Package Files

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectPackageFile`
 - `gitlab.v4.objects.ProjectPackageFileManager`
 - `gitlab.v4.objects.ProjectPackage.package_files`
- GitLab API: <https://docs.gitlab.com/ee/api/packages.html#list-package-files>

Examples

List package files for package in project:

```
package = project.packages.get(1)
package_files = package.package_files.list()
```

Delete a package file in a project:

```
package = project.packages.get(1)
file = package.package_files.list()[0]
file.delete()
```

Generic Packages

You can use python-gitlab to upload and download generic packages.

Reference

- v4 API:
 - `gitlab.v4.objects.GenericPackage`
 - `gitlab.v4.objects.GenericPackageManager`
 - `gitlab.v4.objects.Project.generic_packages`
- GitLab API: https://docs.gitlab.com/ee/user/packages/generic_packages

Examples

Upload a generic package to a project:

```
project = gl.projects.get(1, lazy=True)
package = project.generic_packages.upload(
    package_name="hello-world",
    package_version="v1.0.0",
    file_name="hello.tar.gz",
    path="/path/to/local/hello.tar.gz"
)
```

Download a project's generic package:

```
project = gl.projects.get(1, lazy=True)
package = project.generic_packages.download(
    package_name="hello-world",
    package_version="v1.0.0",
    file_name="hello.tar.gz",
)
```

Hint: You can use the Packages API described above to find packages and retrieve the metadata you need download them.

6.4.33 Pages domains

Admin

References

- v4 API:
 - *gitlab.v4.objects.PagesDomain*
 - *gitlab.v4.objects.PagesDomainManager*
 - *gitlab.Gitlab.pagesdomains*
- GitLab API: https://docs.gitlab.com/ce/api/pages_domains.html#list-all-pages-domains

Examples

List all the existing domains (admin only):

```
domains = gl.pagesdomains.list()
```

Project pages domain

References

- v4 API:
 - *gitlab.v4.objects.ProjectPagesDomain*
 - *gitlab.v4.objects.ProjectPagesDomainManager*
 - *gitlab.v4.objects.Project.pagesdomains*
- GitLab API: https://docs.gitlab.com/ce/api/pages_domains.html#list-pages-domains

Examples

List domains for a project:

```
domains = project.pagesdomains.list()
```

Get a single domain:

```
domain = project.pagesdomains.get('d1.example.com')
```

Create a new domain:

```
domain = project.pagesdomains.create({'domain': 'd2.example.com'})
```

Update an existing domain:

```
domain.certificate = open('d2.crt').read()
domain.key = open('d2.key').read()
domain.save()
```

Delete an existing domain:

```
domain.delete
# or
project.pagesdomains.delete('d2.example.com')
```

6.4.34 Personal Access Tokens

References

- v4 API:
 - `gitlab.v4.objects.PersonalAccessToken`
 - `gitlab.v4.objects.PersonalAccessTokenManager`
 - `gitlab.Gitlab.personal_access_tokens`
 - `gitlab.v4.objects.UserPersonalAccessToken`
 - `gitlab.v4.objects.UserPersonalAccessTokenManager`
 - `gitlab.Gitlab.User.personal_access_tokens`
- GitLab API:
 - https://docs.gitlab.com/ee/api/personal_access_tokens.html
 - <https://docs.gitlab.com/ee/api/users.html#create-a-personal-access-token>

Examples

List personal access tokens:

```
access_tokens = gl.personal_access_tokens.list()
print(access_tokens[0].name)
```

List personal access tokens from other user_id (admin only):

```
access_tokens = gl.personal_access_tokens.list(user_id=25)
```

Revoke a personal access token fetched via list:

```
access_token = access_tokens[0]
access_token.delete()
```

Revoke a personal access token by id:

```
gl.personal_access_tokens.delete(123)
```

Create a personal access token for a user (admin only):

```
user = gl.users.get(25, lazy=True)
access_token = user.personal_access_tokens.create({"name": "test", "scopes": "api"})
```

Note: As you can see above, you can only create personal access tokens via the Users API, but you cannot revoke these objects directly. This is because the create API uses a different endpoint than the list and revoke APIs. You need to fetch the token via the list API first to revoke it.

As of 14.2, GitLab does not provide a GET API for single personal access tokens. You must use the list method to retrieve single tokens.

6.4.35 Pipelines and Jobs

Project pipelines

A pipeline is a group of jobs executed by GitLab CI.

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectPipeline*
 - *gitlab.v4.objects.ProjectPipelineManager*
 - *gitlab.v4.objects.Project.pipelines*
- GitLab API: <https://docs.gitlab.com/ce/api/pipelines.html>

Examples

List pipelines for a project:

```
pipelines = project.pipelines.list()
```

Get a pipeline for a project:

```
pipeline = project.pipelines.get(pipeline_id)
```

Get variables of a pipeline:

```
variables = pipeline.variables.list()
```

Create a pipeline for a particular reference with custom variables:

```
pipeline = project.pipelines.create({'ref': 'main', 'variables': [{  
    ↪ 'key': 'MY_VARIABLE',  
    ↪ 'value': 'hello'}]})
```

Retry the failed builds for a pipeline:

```
pipeline.retry()
```

Cancel builds in a pipeline:

```
pipeline.cancel()
```

Delete a pipeline:

```
pipeline.delete()
```

Triggers

Triggers provide a way to interact with the GitLab CI. Using a trigger a user or an application can run a new build/job for a specific commit.

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectTrigger`
 - `gitlab.v4.objects.ProjectTriggerManager`
 - `gitlab.v4.objects.Project.triggers`
- GitLab API: https://docs.gitlab.com/ce/api/pipeline_triggers.html

Examples

List triggers:

```
triggers = project.triggers.list()
```

Get a trigger:

```
trigger = project.triggers.get(trigger_token)
```

Create a trigger:

```
trigger = project.triggers.create({'description': 'mytrigger'})
```

Remove a trigger:

```
project.triggers.delete(trigger_token)
# or
trigger.delete()
```

Full example with wait for finish:

```
def get_or_create_trigger(project):
    trigger_description = 'my_trigger_id'
    for t in project.triggers.list():
        if t.description == trigger_description:
            return t
    return project.triggers.create({'description': trigger_description})

trigger = get_or_create_trigger(project)
pipeline = project.trigger_pipeline('main', trigger.token, variables={"DEPLOY_ZONE": "us-
↪west1"})
while pipeline.finished_at is None:
    pipeline.refresh()
    time.sleep(1)
```

You can trigger a pipeline using token authentication instead of user authentication. To do so create an anonymous Gitlab instance and use lazy objects to get the associated project:

```
gl = gitlab.Gitlab(URL) # no authentication
project = gl.projects.get(project_id, lazy=True) # no API call
project.trigger_pipeline('main', trigger_token)
```

Reference: <https://docs.gitlab.com/ee/ci/triggers/#trigger-token>

Pipeline schedule

You can schedule pipeline runs using a cron-like syntax. Variables can be associated with the scheduled pipelines.

Reference

- v4 API
 - `gitlab.v4.objects.ProjectPipelineSchedule`
 - `gitlab.v4.objects.ProjectPipelineScheduleManager`
 - `gitlab.v4.objects.Project.pipelineschedules`
 - `gitlab.v4.objects.ProjectPipelineScheduleVariable`
 - `gitlab.v4.objects.ProjectPipelineScheduleVariableManager`
 - `gitlab.v4.objects.Project.pipelineschedules`
- GitLab API: https://docs.gitlab.com/ce/api/pipeline_schedules.html

Examples

List pipeline schedules:

```
scheds = project.pipelineschedules.list()
```

Get a single schedule:

```
sched = projects.pipelineschedules.get(schedule_id)
```

Create a new schedule:

```
sched = project.pipelineschedules.create({
    'ref': 'main',
    'description': 'Daily test',
    'cron': '@ 1 * * *'})
```

Update a schedule:

```
sched.cron = '1 2 * * *'
sched.save()
```

Take ownership of a schedule:

```
sched.take_ownership()
```

Trigger a pipeline schedule immediately:

```
sched = projects.pipelineschedules.get(schedule_id)
sched.play()
```

Delete a schedule:

```
sched.delete()
```

List schedule variables:

```
# note: you need to use get() to retrieve the schedule variables. The
# attribute is not present in the response of a list() call
sched = projects.pipelineschedules.get(schedule_id)
vars = sched.attributes['variables']
```

Create a schedule variable:

```
var = sched.variables.create({'key': 'foo', 'value': 'bar'})
```

Edit a schedule variable:

```
var.value = 'new_value'
var.save()
```

Delete a schedule variable:

```
var.delete()
```

Jobs

Jobs are associated to projects, pipelines and commits. They provide information on the jobs that have been run, and methods to manipulate them.

Reference

- v4 API
 - `gitlab.v4.objects.ProjectJob`
 - `gitlab.v4.objects.ProjectJobManager`
 - `gitlab.v4.objects.Project.jobs`
- GitLab API: <https://docs.gitlab.com/ce/api/jobs.html>

Examples

Jobs are usually automatically triggered, but you can explicitly trigger a new job:

```
project.trigger_build('main', trigger_token,
                      {'extra_var1': 'foo', 'extra_var2': 'bar'})
```

List jobs for the project:

```
jobs = project.jobs.list()
```

Get a single job:

```
project.jobs.get(job_id)
```

List the jobs of a pipeline:

```
project = gl.projects.get(project_id)
pipeline = project.pipelines.get(pipeline_id)
jobs = pipeline.jobs.list()
```

Note: Job methods (play, cancel, and so on) are not available on ProjectPipelineJob objects. To use these methods create a ProjectJob object:

```
pipeline_job = pipeline.jobs.list()[0]
job = project.jobs.get(pipeline_job.id, lazy=True)
job.retry()
```

Get the artifacts of a job:

```
build_or_job.artifacts()
```

Get the artifacts of a job by its name from the latest successful pipeline of a branch or tag:

```
project.artifacts.download(ref_name='main', job='build')
```

Attention: An older method `project.artifacts()` is deprecated and will be removed in a future version.

Warning: Artifacts are entirely stored in memory in this example.

You can download artifacts as a stream. Provide a callable to handle the stream:

```
with open("archive.zip", "wb") as f:
    build_or_job.artifacts(streamed=True, action=f.write)
```

You can also directly stream the output into a file, and unzip it afterwards:

```
zipfn = "___artifacts.zip"
with open(zipfn, "wb") as f:
    build_or_job.artifacts(streamed=True, action=f.write)
subprocess.run(["unzip", "-bo", zipfn])
os.unlink(zipfn)
```

Delete all artifacts of a project that can be deleted:

```
project.artifacts.delete()
```

Get a single artifact file:

```
build_or_job.artifact('path/to/file')
```

Get a single artifact file by branch and job:

```
project.artifacts.raw('branch', 'path/to/file', 'job')
```

Attention: An older method `project.artifact()` is deprecated and will be removed in a future version.

Mark a job artifact as kept when expiration is set:

```
build_or_job.keep_artifacts()
```

Delete the artifacts of a job:

```
build_or_job.delete_artifacts()
```

Get a job trace:

```
build_or_job.trace()
```

Warning: Traces are entirely stored in memory unless you use the streaming feature. See *the artifacts example*.

Cancel/retry a job:

```
build_or_job.cancel()  
build_or_job.retry()
```

Play (trigger) a job:

```
build_or_job.play()
```

Erase a job (artifacts and trace):

```
build_or_job.erase()
```

Pipeline bridges

Get a list of bridge jobs (including child pipelines) for a pipeline.

Reference

- v4 API
 - `gitlab.v4.objects.ProjectPipelineBridge`
 - `gitlab.v4.objects.ProjectPipelineBridgeManager`
 - `gitlab.v4.objects.ProjectPipeline.bridges`
- GitLab API: <https://docs.gitlab.com/ee/api/jobs.html#list-pipeline-bridges>

Examples

List bridges for the pipeline:

```
bridges = pipeline.bridges.list()
```

Pipeline test report

Get a pipeline's complete test report.

Reference

- v4 API
 - *gitlab.v4.objects.ProjectPipelineTestReport*
 - *gitlab.v4.objects.ProjectPipelineTestReportManager*
 - *gitlab.v4.objects.ProjectPipeline.test_report*
- GitLab API: <https://docs.gitlab.com/ee/api/pipelines.html#get-a-pipelines-test-report>

Examples

Get the test report for a pipeline:

```
test_report = pipeline.test_report.get()
```

Pipeline test report summary

Get a pipeline's test report summary.

Reference

- v4 API
 - *gitlab.v4.objects.ProjectPipelineTestReportSummary*
 - *gitlab.v4.objects.ProjectPipelineTestReportSummaryManager*
 - *gitlab.v4.objects.ProjectPipeline.test_report_summary*
- GitLab API: <https://docs.gitlab.com/ee/api/pipelines.html#get-a-pipelines-test-report-summary>

Examples

Get the test report summary for a pipeline:

```
test_report_summary = pipeline.test_report_summary.get()
```

6.4.36 Projects

Projects

Reference

- v4 API:
 - `gitlab.v4.objects.Project`
 - `gitlab.v4.objects.ProjectManager`
 - `gitlab.Gitlab.projects`
- GitLab API: <https://docs.gitlab.com/ce/api/projects.html>

Examples

List projects:

```
projects = gl.projects.list()
```

The API provides several filtering parameters for the listing methods:

- `archived`: if `True` only archived projects will be returned
- `visibility`: returns only projects with the specified visibility (can be `public`, `internal` or `private`)
- `search`: returns project matching the given pattern

Results can also be sorted using the following parameters:

- `order_by`: sort using the given argument. Valid values are `id`, `name`, `path`, `created_at`, `updated_at` and `last_activity_at`. The default is to sort by `created_at`
- `sort`: sort order (`asc` or `desc`)

```
# List all projects (default 20)
projects = gl.projects.list(all=True)
# Archived projects
projects = gl.projects.list(archived=1)
# Limit to projects with a defined visibility
projects = gl.projects.list(visibility='public')

# List owned projects
projects = gl.projects.list(owned=True)

# List starred projects
projects = gl.projects.list(starred=True)
```

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```
# Search projects
projects = gl.projects.list(search='keyword')
```

Note: To list the starred projects of another user, see the *Users API docs*.

Note: Fetching a list of projects, doesn't include all attributes of all projects. To retrieve all attributes, you'll need to fetch a single project

Get a single project:

```
# Get a project by ID
project_id = 851
project = gl.projects.get(project_id)

# Get a project by name with namespace
project_name_with_namespace = "namespace/project_name"
project = gl.projects.get(project_name_with_namespace)
```

Create a project:

```
project = gl.projects.create({'name': 'project1'})
```

Create a project for a user (admin only):

```
alice = gl.users.list(username='alice')[0]
user_project = alice.projects.create({'name': 'project'})
user_projects = alice.projects.list()
```

Create a project in a group:

```
# You need to get the id of the group, then use the namespace_id attribute
# to create the group
group_id = gl.groups.list(search='my-group')[0].id
project = gl.projects.create({'name': 'myrepo', 'namespace_id': group_id})
```

List a project's groups:

```
# Get a list of ancestor/parent groups for a project.
groups = project.groups.list()
```

Update a project:

```
project.snippets_enabled = 1
project.save()
```

Set the avatar image for a project:

```
# the avatar image can be passed as data (content of the file) or as a file
# object opened in binary mode
```

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```
project.avatar = open('path/to/file.png', 'rb')
project.save()
```

Delete a project:

```
gl.projects.delete(project_id)
# or
project.delete()
```

Fork a project:

```
fork = project.forks.create({})

# fork to a specific namespace
fork = project.forks.create({'namespace': 'myteam'})
```

Get a list of forks for the project:

```
forks = project.forks.list()
```

Create/delete a fork relation between projects (requires admin permissions):

```
project.create_fork_relation(source_project.id)
project.delete_fork_relation()
```

Get languages used in the project with percentage value:

```
languages = project.languages()
```

Star/unstar a project:

```
project.star()
project.unstar()
```

Archive/unarchive a project:

```
project.archive()
project.unarchive()
```

Start the housekeeping job:

```
project.housekeeping()
```

List the repository tree:

```
# list the content of the root directory for the default branch
items = project.repository_tree()

# list the content of a subdirectory on a specific branch
items = project.repository_tree(path='docs', ref='branch1')
```

Get the content and metadata of a file for a commit, using a blob sha:

```
items = project.repository_tree(path='docs', ref='branch1')
file_info = p.repository_blob(items[0]['id'])
content = base64.b64decode(file_info['content'])
size = file_info['size']
```

Update a project submodule:

```
items = project.update_submodule(
    submodule="foo/bar",
    branch="main",
    commit_sha="4c3674f66071e30b3311dac9b9ccc90502a72664",
    commit_message="Message", # optional
)
```

Get the repository archive:

```
tgz = project.repository_archive()

# get the archive for a branch/tag/commit
tgz = project.repository_archive(sha='4567abc')

# get the archive in a different format
zip = project.repository_archive(format='zip')
```

Note: For the formats available, refer to <https://docs.gitlab.com/ce/api/repositories.html#get-file-archive>

Warning: Archives are entirely stored in memory unless you use the streaming feature. See *the artifacts example*.

Get the content of a file using the blob id:

```
# find the id for the blob (simple search)
id = [d['id'] for d in p.repository_tree() if d['name'] == 'README.rst'][0]

# get the content
file_content = p.repository_raw_blob(id)
```

Warning: Blobs are entirely stored in memory unless you use the streaming feature. See *the artifacts example*.

Get a snapshot of the repository:

```
tar_file = project.snapshot()
```

Warning: Snapshots are entirely stored in memory unless you use the streaming feature. See *the artifacts example*.

Compare two branches, tags or commits:

```
result = project.repository_compare('main', 'branch1')

# get the commits
for commit in result['commits']:
    print(commit)

# get the diffs
for file_diff in result['diffs']:
    print(file_diff)
```

Get a list of contributors for the repository:

```
contributors = project.repository_contributors()
```

Get a list of users for the repository:

```
users = p.users.list()

# search for users
users = p.users.list(search='pattern')
```

Start the pull mirroring process (EE edition):

```
project.mirror_pull()
```

Import / Export

You can export projects from gitlab, and re-import them to create new projects or overwrite existing ones.

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectExport`
 - `gitlab.v4.objects.ProjectExportManager`
 - `gitlab.v4.objects.Project.exports`
 - `gitlab.v4.objects.ProjectImport`
 - `gitlab.v4.objects.ProjectImportManager`
 - `gitlab.v4.objects.Project.imports`
 - `gitlab.v4.objects.ProjectManager.import_project`
- GitLab API: https://docs.gitlab.com/ce/api/project_import_export.html

Examples

A project export is an asynchronous operation. To retrieve the archive generated by GitLab you need to:

1. Create an export using the API
2. Wait for the export to be done
3. Download the result

```
# Create the export
p = gl.projects.get(my_project)
export = p.exports.create()

# Wait for the 'finished' status
export.refresh()
while export.export_status != 'finished':
    time.sleep(1)
    export.refresh()

# Download the result
with open('/tmp/export.tgz', 'wb') as f:
    export.download(streamed=True, action=f.write)
```

Import the project:

```
output = gl.projects.import_project(open('/tmp/export.tgz', 'rb'), 'my_new_project')
# Get a ProjectImport object to track the import status
project_import = gl.projects.get(output['id'], lazy=True).imports.get()
while project_import.import_status != 'finished':
    time.sleep(1)
    project_import.refresh()
```

Project custom attributes

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectCustomAttribute`
 - `gitlab.v4.objects.ProjectCustomAttributeManager`
 - `gitlab.v4.objects.Project.customattributes`
- GitLab API: https://docs.gitlab.com/ce/api/custom_attributes.html

Examples

List custom attributes for a project:

```
attrs = project.customattributes.list()
```

Get a custom attribute for a project:

```
attr = project.customattributes.get(attr_key)
```

Set (create or update) a custom attribute for a project:

```
attr = project.customattributes.set(attr_key, attr_value)
```

Delete a custom attribute for a project:

```
attr.delete()  
# or  
project.customattributes.delete(attr_key)
```

Search projects by custom attribute:

```
project.customattributes.set('type', 'internal')  
gl.projects.list(custom_attributes={'type': 'internal'})
```

Project files

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectFile`
 - `gitlab.v4.objects.ProjectFileManager`
 - `gitlab.v4.objects.Project.files`
- GitLab API: https://docs.gitlab.com/ce/api/repository_files.html

Examples

Get a file:

```
f = project.files.get(file_path='README.rst', ref='main')  
  
# get the base64 encoded content  
print(f.content)  
  
# get the decoded content  
print(f.decode())
```

Get a raw file:

```
raw_content = project.files.raw(file_path='README.rst', ref='main')
print(raw_content)
with open('/tmp/raw-download.txt', 'wb') as f:
    project.files.raw(file_path='README.rst', ref='main', streamed=True, action=f.write)
```

Create a new file:

```
f = project.files.create({'file_path': 'testfile.txt',
                          'branch': 'main',
                          'content': file_content,
                          'author_email': 'test@example.com',
                          'author_name': 'yourname',
                          'commit_message': 'Create testfile'})
```

Update a file. The entire content must be uploaded, as plain text or as base64 encoded text:

```
f.content = 'new content'
f.save(branch='main', commit_message='Update testfile')

# or for binary data
# Note: decode() is required with python 3 for data serialization. You can omit
# it with python 2
f.content = base64.b64encode(open('image.png').read()).decode()
f.save(branch='main', commit_message='Update testfile', encoding='base64')
```

Delete a file:

```
f.delete(commit_message='Delete testfile', branch='main')
# or
project.files.delete(file_path='testfile.txt', commit_message='Delete testfile', branch=
↳ 'main')
```

Get file blame:

```
b = project.files.blame(file_path='README.rst', ref='main')
```

Project tags

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectTag`
 - `gitlab.v4.objects.ProjectTagManager`
 - `gitlab.v4.objects.Project.tags`
- GitLab API: <https://docs.gitlab.com/ce/api/tags.html>

Examples

List the project tags:

```
tags = project.tags.list()
```

Get a tag:

```
tag = project.tags.get('1.0')
```

Create a tag:

```
tag = project.tags.create({'tag_name': '1.0', 'ref': 'main'})
```

Delete a tag:

```
project.tags.delete('1.0')  
# or  
tag.delete()
```

Project snippets

The snippet visibility can be defined using the following constants:

- `gitlab.const.VISIBILITY_PRIVATE`
- `gitlab.const.VISIBILITY_INTERNAL`
- `gitlab.const.VISIBILITY_PUBLIC`

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectSnippet`
 - `gitlab.v4.objects.ProjectSnippetManager`
 - `gitlab.v4.objects.Project.files`
- GitLab API: https://docs.gitlab.com/ce/api/project_snippets.html

Examples

List the project snippets:

```
snippets = project.snippets.list()
```

Get a snippet:

```
snippet = project.snippets.get(snippet_id)
```

Get the content of a snippet:

```
print(snippet.content())
```

Warning: The snippet content is entirely stored in memory unless you use the streaming feature. See *the artifacts example*.

Create a snippet:

```
snippet = project.snippets.create({'title': 'sample 1',
                                   'file_name': 'foo.py',
                                   'code': 'import gitlab',
                                   'visibility_level':
                                       gitlab.const.VISIBILITY_PRIVATE})
```

Update a snippet:

```
snippet.code = 'import gitlab\nimport whatever'
snippet.save
```

Delete a snippet:

```
project.snippets.delete(snippet_id)
# or
snippet.delete()
```

Get user agent detail (admin only):

```
detail = snippet.user_agent_detail()
```

Notes

See *Notes*.

Project members

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectMember*
 - *gitlab.v4.objects.ProjectMemberManager*
 - *gitlab.v4.objects.ProjectMemberAllManager*
 - *gitlab.v4.objects.Project.members*
 - *gitlab.v4.objects.Project.members_all*
- GitLab API: <https://docs.gitlab.com/ce/api/members.html>

Examples

List only direct project members:

```
members = project.members.list()
```

List the project members recursively (including inherited members through ancestor groups):

```
members = project.members_all.list(all=True)
```

Search project members matching a query string:

```
members = project.members.list(query='bar')
```

Get only direct project member:

```
member = project.members.get(user_id)
```

Get a member of a project, including members inherited through ancestor groups:

```
members = project.members_all.get(member_id)
```

Add a project member:

```
member = project.members.create({'user_id': user.id, 'access_level':  
                                gitlab.const.DEVELOPER_ACCESS})
```

Modify a project member (change the access level):

```
member.access_level = gitlab.const.MAINTAINER_ACCESS  
member.save()
```

Remove a member from the project team:

```
project.members.delete(user.id)  
# or  
member.delete()
```

Share/unshare the project with a group:

```
project.share(group.id, gitlab.const.DEVELOPER_ACCESS)  
project.unshare(group.id)
```

Project hooks

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectHook`
 - `gitlab.v4.objects.ProjectHookManager`
 - `gitlab.v4.objects.Project.hooks`
- GitLab API: <https://docs.gitlab.com/ce/api/projects.html#hooks>

Examples

List the project hooks:

```
hooks = project.hooks.list()
```

Get a project hook:

```
hook = project.hooks.get(hook_id)
```

Create a project hook:

```
hook = project.hooks.create({'url': 'http://my/action/url', 'push_events': 1})
```

Update a project hook:

```
hook.push_events = 0
hook.save()
```

Delete a project hook:

```
project.hooks.delete(hook_id)
# or
hook.delete()
```

Project Services

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectService`
 - `gitlab.v4.objects.ProjectServiceManager`
 - `gitlab.v4.objects.Project.services`
- GitLab API: <https://docs.gitlab.com/ce/api/services.html>

Examples

Get a service:

```
service = project.services.get('asana')
# display its status (enabled/disabled)
print(service.active)
```

List active project services:

```
service = project.services.list()
```

List the code names of available services (doesn't return objects):

```
services = project.services.available()
```

Configure and enable a service:

```
service.api_key = 'randomkey'  
service.save()
```

Disable a service:

```
service.delete()
```

File uploads

Reference

- v4 API:
 - *gitlab.v4.objects.Project.upload*
- Gitlab API: <https://docs.gitlab.com/ce/api/projects.html#upload-a-file>

Examples

Upload a file into a project using a filesystem path:

```
project.upload("filename.txt", filepath="/some/path/filename.txt")
```

Upload a file into a project without a filesystem path:

```
project.upload("filename.txt", filedata="Raw data")
```

Upload a file and comment on an issue using the uploaded file's markdown:

```
uploaded_file = project.upload("filename.txt", filedata="data")  
issue = project.issues.get(issue_id)  
issue.notes.create({  
    "body": "See the attached file: {}".format(uploaded_file["markdown"])  
})
```

Upload a file and comment on an issue while using custom markdown to reference the uploaded file:

```
uploaded_file = project.upload("filename.txt", filedata="data")  
issue = project.issues.get(issue_id)  
issue.notes.create({  
    "body": "See the [attached file]({})".format(uploaded_file["url"])  
})
```

Project push rules

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectPushRules`
 - `gitlab.v4.objects.ProjectPushRulesManager`
 - `gitlab.v4.objects.Project.pushrules`
- GitLab API: <https://docs.gitlab.com/ee/api/projects.html#push-rules>

Examples

Create project push rules (at least one rule is necessary):

```
project.pushrules.create({'deny_delete_tag': True})
```

Get project push rules (returns None if there are no push rules):

```
pr = project.pushrules.get()
```

Edit project push rules:

```
pr.branch_name_regex = '^((main|develop|support-\d+|release-\d+\.|hotfix-\d+|feature-\d+)$
↪ '
pr.save()
```

Delete project push rules:

```
pr.delete()
```

Project protected tags

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectProtectedTag`
 - `gitlab.v4.objects.ProjectProtectedTagManager`
 - `gitlab.v4.objects.Project.protectedtags`
- GitLab API: https://docs.gitlab.com/ce/api/protected_tags.html

Examples

Get a list of protected tags from a project:

```
protected_tags = project.protectedtags.list()
```

Get a single protected tag or wildcard protected tag:

```
protected_tag = project.protectedtags.get('v*')
```

Protect a single repository tag or several project repository tags using a wildcard protected tag:

```
project.protectedtags.create({'name': 'v*', 'create_access_level': '40'})
```

Unprotect the given protected tag or wildcard protected tag.:

```
protected_tag.delete()
```

Additional project statistics

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectAdditionalStatistics*
 - *gitlab.v4.objects.ProjectAdditionalStatisticsManager*
 - *gitlab.v4.objects.Project.additionalstatistics*
- GitLab API: https://docs.gitlab.com/ce/api/project_statistics.html

Examples

Get all additional statistics of a project:

```
statistics = project.additionalstatistics.get()
```

Get total fetches in last 30 days of a project:

```
total_fetches = project.additionalstatistics.get().fetches['total']
```

6.4.37 Project Access Tokens

Get a list of project access tokens

References

- v4 API:
 - `gitlab.v4.objects.ProjectAccessToken`
 - `gitlab.v4.objects.ProjectAccessTokenManager`
 - `gitlab.Gitlab.project_access_tokens`
- GitLab API: https://docs.gitlab.com/ee/api/project_access_tokens.html

Examples

List project access tokens:

```
access_tokens = gl.projects.get(1, lazy=True).access_tokens.list()
print(access_tokens[0].name)
```

Create project access token:

```
access_token = gl.projects.get(1).access_tokens.create({"name": "test", "scopes": ["api", "read_repository"]})
```

Revoke a project access tokens:

```
gl.projects.get(1).access_tokens.delete(42)
# or
access_token.delete()
```

6.4.38 Protected branches

You can define a list of protected branch names on a repository. Names can use wildcards (*).

References

- v4 API:
 - `gitlab.v4.objects.ProjectProtectedBranch`
 - `gitlab.v4.objects.ProjectProtectedBranchManager`
 - `gitlab.v4.objects.Project.protectedbranches`
- GitLab API: https://docs.gitlab.com/ce/api/protected_branches.html#protected-branches-api

Examples

Get the list of protected branches for a project:

```
p_branches = project.protectedbranches.list()
```

Get a single protected branch:

```
p_branch = project.protectedbranches.get('main')
```

Create a protected branch:

```
p_branch = project.protectedbranches.create({
    'name': '*-stable',
    'merge_access_level': gitlab.const.DEVELOPER_ACCESS,
    'push_access_level': gitlab.const.MAINTAINER_ACCESS
})
```

Create a protected branch with more granular access control:

```
p_branch = project.protectedbranches.create({
    'name': '*-stable',
    'allowed_to_push': [{"user_id": 99}, {"user_id": 98}],
    'allowed_to_merge': [{"group_id": 653}],
    'allowed_to_unprotect': [{"access_level": gitlab.const.MAINTAINER_ACCESS}]
})
```

Delete a protected branch:

```
project.protectedbranches.delete('*-stable')
# or
p_branch.delete()
```

6.4.39 Releases

Project releases

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectRelease*
 - *gitlab.v4.objects.ProjectReleaseManager*
 - *gitlab.v4.objects.Project.releases*
- Gitlab API: <https://docs.gitlab.com/ee/api/releases/index.html>

Examples

Get a list of releases from a project:

```
project = gl.projects.get(project_id, lazy=True)
release = project.releases.list()
```

Get a single release:

```
release = project.releases.get('v1.2.3')
```

Edit a release:

```
release.name = "Demo Release"
release.description = "release notes go here"
release.save()
```

Create a release for a project tag:

```
release = project.releases.create({'name': 'Demo Release', 'tag_name': 'v1.2.3',
↪ 'description': 'release notes go here'})
```

Delete a release:

```
# via its tag name from project attributes
release = project.releases.delete('v1.2.3')

# delete object directly
release.delete()
```

Note: The Releases API is one of the few working with `CI_JOB_TOKEN`, but the project can't be fetched with the token. Thus use *lazy* for the project as in the above example.

Also be aware that most of the capabilities of the endpoint were not accessible with `CI_JOB_TOKEN` until Gitlab version 14.5.

Project release links

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectReleaseLink`
 - `gitlab.v4.objects.ProjectReleaseLinkManager`
 - `gitlab.v4.objects.ProjectRelease.links`
- Gitlab API: <https://docs.gitlab.com/ee/api/releases/links.html>

Examples

Get a list of releases from a project:

```
links = release.links.list()
```

Get a single release link:

```
link = release.links.get(1)
```

Create a release link for a release:

```
link = release.links.create({"url": "https://example.com/asset", "name": "asset"})
```

Delete a release link:

```
# via its ID from release attributes
release.links.delete(1)

# delete object directly
link.delete()
```

6.4.40 Runners

Runners are external processes used to run CI jobs. They are deployed by the administrator and registered to the GitLab instance.

Shared runners are available for all projects. Specific runners are enabled for a list of projects.

Global runners (admin)

Reference

- v4 API:
 - *gitlab.v4.objects.Runner*
 - *gitlab.v4.objects.RunnerManager*
 - *gitlab.Gitlab.runners*
- GitLab API: <https://docs.gitlab.com/ce/api/runners.html>

Examples

Use the `list()` and `all()` methods to list runners.

Both methods accept a `scope` parameter to filter the list. Allowed values for this parameter are:

- `active`
- `paused`
- `online`
- `specific` (`all()` only)

- `shared` (`all()` only)

Note: The returned objects hold minimal information about the runners. Use the `get()` method to retrieve detail about a runner.

```
# List owned runners
runners = gl.runners.list()
# With a filter
runners = gl.runners.list(scope='active')
# List all runners, using a filter
runners = gl.runners.all(scope='paused')
```

Get a runner's detail:

```
runner = gl.runners.get(runner_id)
```

Register a new runner:

```
runner = gl.runners.create({'token': secret_token})
```

Update a runner:

```
runner = gl.runners.get(runner_id)
runner.tag_list.append('new_tag')
runner.save()
```

Remove a runner:

```
gl.runners.delete(runner_id)
# or
runner.delete()
```

Remove a runner by its authentication token:

```
gl.runners.delete(token="runner-auth-token")
```

Verify a registered runner token:

```
try:
    gl.runners.verify(runner_token)
    print("Valid token")
except GitlabVerifyError:
    print("Invalid token")
```

Project/Group runners

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectRunner*
 - *gitlab.v4.objects.ProjectRunnerManager*
 - *gitlab.v4.objects.Project.runners*
 - *gitlab.v4.objects.GroupRunner*
 - *gitlab.v4.objects.GroupRunnerManager*
 - *gitlab.v4.objects.Group.runners*
- GitLab API: <https://docs.gitlab.com/ce/api/runners.html>

Examples

List the runners for a project:

```
runners = project.runners.list()
```

Enable a specific runner for a project:

```
p_runner = project.runners.create({'runner_id': runner.id})
```

Disable a specific runner for a project:

```
project.runners.delete(runner.id)
```

Runner jobs

Reference

- v4 API:
 - *gitlab.v4.objects.RunnerJob*
 - *gitlab.v4.objects.RunnerJobManager*
 - *gitlab.v4.objects.Runner.jobs*
- GitLab API: <https://docs.gitlab.com/ce/api/runners.html>

Examples

List for jobs for a runner:

```
jobs = runner.jobs.list()
```

Filter the list using the jobs status:

```
# status can be 'running', 'success', 'failed' or 'canceled'
active_jobs = runner.jobs.list(status='running')
```

6.4.41 Project Remote Mirrors

Remote Mirrors allow you to set up push mirroring for a project.

References

- v4 API:
 - `gitlab.v4.objects.ProjectRemoteMirror`
 - `gitlab.v4.objects.ProjectRemoteMirrorManager`
 - `gitlab.v4.objects.Project.remote_mirrors`
- GitLab API: https://docs.gitlab.com/ce/api/remote_mirrors.html

Examples

Get the list of a project's remote mirrors:

```
mirrors = project.remote_mirrors.list()
```

Create (and enable) a remote mirror for a project:

```
mirror = project.remote_mirrors.create({'url': 'https://gitlab.com/example.git',
                                         'enabled': True})
```

Update an existing remote mirror's attributes:

```
mirror.enabled = False
mirror.only_protected_branches = True
mirror.save()
```

6.4.42 Registry Repositories

References

- v4 API:
 - `gitlab.v4.objects.ProjectRegistryRepository`
 - `gitlab.v4.objects.ProjectRegistryRepositoryManager`
 - `gitlab.v4.objects.Project.repositories`
- Gitlab API: https://docs.gitlab.com/ce/api/container_registry.html

Examples

Get the list of container registry repositories associated with the project:

```
repositories = project.repositories.list()
```

Delete repository:

```
project.repositories.delete(id=x)
# or
repository = repositories.pop()
repository.delete()
```

6.4.43 Registry Repository Tags

References

- v4 API:
 - `gitlab.v4.objects.ProjectRegistryTag`
 - `gitlab.v4.objects.ProjectRegistryTagManager`
 - `gitlab.v4.objects.Repository.tags`
- Gitlab API: https://docs.gitlab.com/ce/api/container_registry.html

Examples

Get the list of repository tags in given registry:

```
repositories = project.repositories.list()
repository = repositories.pop()
tags = repository.tags.list()
```

Get specific tag:

```
repository.tags.get(id=tag_name)
```

Delete tag:

```
repository.tags.delete(id=tag_name)
# or
tag = repository.tags.get(id=tag_name)
tag.delete()
```

Delete tag in bulk:

```
repository.tags.delete_in_bulk(keep_n=1)
# or
repository.tags.delete_in_bulk(older_than="1m")
# or
repository.tags.delete_in_bulk(name_regex="v.+ ", keep_n=2)
```

Note: Delete in bulk is asynchronous operation and may take a while. Refer to: https://docs.gitlab.com/ce/api/container_registry.html#delete-repository-tags-in-bulk

6.4.44 Search API

You can search for resources at the top level, in a project or in a group. Searches are based on a scope (issues, merge requests, and so on) and a search string. The following constants are provided to represent the possible scopes:

- Shared scopes (global, group and project):
 - `gitlab.const.SEARCH_SCOPE_PROJECTS`: projects
 - `gitlab.const.SEARCH_SCOPE_ISSUES`: issues
 - `gitlab.const.SEARCH_SCOPE_MERGE_REQUESTS`: merge_requests
 - `gitlab.const.SEARCH_SCOPE_MILESTONES`: milestones
 - `gitlab.const.SEARCH_SCOPE_WIKI_BLOBS`: wiki_blobs
 - `gitlab.const.SEARCH_SCOPE_COMMITS`: commits
 - `gitlab.const.SEARCH_SCOPE_BLOBS`: blobs
 - `gitlab.const.SEARCH_SCOPE_USERS`: users
- specific global scope:
 - `gitlab.const.SEARCH_SCOPE_GLOBAL_SNIPPET_TITLES`: snippet_titles
- specific project scope:
 - `gitlab.const.SEARCH_SCOPE_PROJECT_NOTES`: notes

Reference

- v4 API:
 - `gitlab.Gitlab.search`
 - `gitlab.v4.objects.Group.search`
 - `gitlab.v4.objects.Project.search`
- GitLab API: <https://docs.gitlab.com/ce/api/search.html>

Examples

Search for issues matching a specific string:

```
# global search
gl.search(gitlab.const.SEARCH_SCOPE_ISSUES, 'regression')

# group search
group = gl.groups.get('mygroup')
group.search(gitlab.const.SEARCH_SCOPE_ISSUES, 'regression')

# project search
project = gl.projects.get('myproject')
project.search(gitlab.const.SEARCH_SCOPE_ISSUES, 'regression')
```

The `search()` methods implement the pagination support:

```
# get lists of 10 items, and start at page 2
gl.search(gitlab.const.SEARCH_SCOPE_ISSUES, search_str, page=2, per_page=10)

# get a generator that will automatically make required API calls for
# pagination
for item in gl.search(gitlab.const.SEARCH_SCOPE_ISSUES, search_str, as_list=False):
    do_something(item)
```

The search API doesn't return objects, but dicts. If you need to act on objects, you need to create them explicitly:

```
for item in gl.search(gitlab.const.SEARCH_SCOPE_ISSUES, search_str, as_list=False):
    issue_project = gl.projects.get(item['project_id'], lazy=True)
    issue = issue_project.issues.get(item['iid'])
    issue.state = 'closed'
    issue.save()
```

6.4.45 Settings

Reference

- v4 API:
 - `gitlab.v4.objects.ApplicationSettings`
 - `gitlab.v4.objects.ApplicationSettingsManager`
 - `gitlab.Gitlab.settings`

- GitLab API: <https://docs.gitlab.com/ce/api/settings.html>

Examples

Get the settings:

```
settings = gl.settings.get()
```

Update the settings:

```
settings.signin_enabled = False
settings.save()
```

6.4.46 Snippets

Reference

- v4 API:
 - `gitlab.v4.objects.Snippet`
 - `gitlab.v4.objects.SnippetManager`
 - `gitlab.Gitlab.snippets`
- GitLab API: <https://docs.gitlab.com/ce/api/snippets.html>

Examples

List snippets owned by the current user:

```
snippets = gl.snippets.list()
```

List the public snippets:

```
public_snippets = gl.snippets.public()
```

Get a snippet:

```
snippet = gl.snippets.get(snippet_id)
# get the content
content = snippet.content()
```

Warning: Blobs are entirely stored in memory unless you use the streaming feature. See *the artifacts example*.

Create a snippet:

```
snippet = gl.snippets.create({'title': 'snippet1',
                              'file_name': 'snippet1.py',
                              'content': open('snippet1.py').read()})
```

Update the snippet attributes:

```
snippet.visibility_level = gitlab.const.VISIBILITY_PUBLIC
snippet.save()
```

To update a snippet code you need to create a `ProjectSnippet` object:

```
snippet = gl.snippets.get(snippet_id)
project = gl.projects.get(snippet.project_id, lazy=True)
editable_snippet = project.snippets.get(snippet.id)
editable_snippet.code = new_snippet_content
editable_snippet.save()
```

Delete a snippet:

```
gl.snippets.delete(snippet_id)
# or
snippet.delete()
```

Get user agent detail (admin only):

```
detail = snippet.user_agent_detail()
```

6.4.47 System hooks

Reference

- v4 API:
 - `gitlab.v4.objects.Hook`
 - `gitlab.v4.objects.HookManager`
 - `gitlab.Gitlab.hooks`
- GitLab API: https://docs.gitlab.com/ce/api/system_hooks.html

Examples

List the system hooks:

```
hooks = gl.hooks.list()
```

Create a system hook:

```
gl.hooks.get(hook_id)
```

Test a system hook. The returned object is not usable (it misses the hook ID):

```
hook = gl.hooks.create({'url': 'http://your.target.url'})
```

Delete a system hook:

```
gl.hooks.delete(hook_id)
# or
hook.delete()
```

6.4.48 Templates

You can request templates for different type of files:

- License files
- .gitignore files
- GitLab CI configuration files
- Dockerfiles

License templates

Reference

- v4 API:
 - `gitlab.v4.objects.License`
 - `gitlab.v4.objects.LicenseManager`
 - `gitlab.Gitlab.licenses`
- GitLab API: <https://docs.gitlab.com/ce/api/templates/licenses.html>

Examples

List known license templates:

```
licenses = gl.licenses.list()
```

Generate a license content for a project:

```
license = gl.licenses.get('apache-2.0', project='foobar', fullname='John Doe')
print(license.content)
```

.gitignore templates

Reference

- v4 API:
 - `gitlab.v4.objects.Gitignore`
 - `gitlab.v4.objects.GitignoreManager`
 - `gitlab.Gitlab.gitignores`
- GitLab API: <https://docs.gitlab.com/ce/api/templates/gitignores.html>

Examples

List known gitignore templates:

```
gitignores = gl.gitignores.list()
```

Get a gitignore template:

```
gitignore = gl.gitignores.get('Python')
print(gitignore.content)
```

GitLab CI templates

Reference

- v4 API:
 - *gitlab.v4.objects.Gitlabciyaml*
 - *gitlab.v4.objects.GitlabciyamlManager*
 - *gitlab.Gitlab.gitlabciyaml*s
- GitLab API: https://docs.gitlab.com/ce/api/templates/gitlab_ci_ymls.html

Examples

List known GitLab CI templates:

```
gitlabciyaml = gl.gitlabciyaml.list()
```

Get a GitLab CI template:

```
gitlabciyaml = gl.gitlabciyaml.get('Pelican')
print(gitlabciyaml.content)
```

Dockerfile templates

Reference

- v4 API:
 - *gitlab.v4.objects.Dockerfile*
 - *gitlab.v4.objects.DockerfileManager*
 - *gitlab.Gitlab.gitlabciyaml*s
- GitLab API: Not documented.

Examples

List known Dockerfile templates:

```
dockerfiles = gl.dockerfiles.list()
```

Get a Dockerfile template:

```
dockerfile = gl.dockerfiles.get('Python')
print(dockerfile.content)
```

6.4.49 Todos

Reference

- v4 API:
 - Todo
 - TodoManager
 - *gitlab.Gitlab.todos*
- GitLab API: <https://docs.gitlab.com/ce/api/todos.html>

Examples

List active todos:

```
todos = gl.todos.list()
```

You can filter the list using the following parameters:

- action: can be assigned, mentioned, build_failed, marked, or approval_required
- author_id
- project_id
- state: can be pending or done
- type: can be Issue or MergeRequest

For example:

```
todos = gl.todos.list(project_id=1)
todos = gl.todos.list(state='done', type='Issue')
```

Mark a todo as done:

```
todos = gl.todos.list(project_id=1)
todos[0].mark_as_done()
```

Mark all the todos as done:

```
gl.todos.mark_all_as_done()
```

6.4.50 Topics

Topics can be used to categorize projects and find similar new projects.

Reference

- v4 API:
 - `gitlab.v4.objects.Topic`
 - `gitlab.v4.objects.TopicManager`
 - `gitlab.Gitlab.topics`
- GitLab API: <https://docs.gitlab.com/ce/api/topics.html>

This endpoint requires admin access for creating, updating and deleting objects.

Examples

List project topics on the GitLab instance:

```
topics = gl.topics.list()
```

Get a specific topic by its ID:

```
topic = gl.topics.get(topic_id)
```

Create a new topic:

```
topic = gl.topics.create({"name": "my-topic"})
```

Update a topic:

```
topic.description = "My new topic"
topic.save()

# or
gl.topics.update(topic_id, {"description": "My new topic"})
```

Delete a topic:

```
topic.delete()

# or
gl.topics.delete(topic_id)
```

6.4.51 Users and current user

The Gitlab API exposes user-related method that can be manipulated by admins only.

The currently logged-in user is also exposed.

Users

References

- v4 API:
 - `gitlab.v4.objects.User`
 - `gitlab.v4.objects.UserManager`
 - `gitlab.Gitlab.users`
- GitLab API:
 - <https://docs.gitlab.com/ce/api/users.html>
 - <https://docs.gitlab.com/ee/api/projects.html#list-projects-starred-by-a-user>

Examples

Get the list of users:

```
users = gl.users.list()
```

Search users whose username match a given string:

```
users = gl.users.list(search='foo')
```

Get a single user:

```
# by ID
user = gl.users.get(user_id)
# by username
user = gl.users.list(username='root')[0]
```

Create a user:

```
user = gl.users.create({'email': 'john@doe.com',
                        'password': 's3cur3s3cr3T',
                        'username': 'jdoe',
                        'name': 'John Doe'})
```

Update a user:

```
user.name = 'Real Name'
user.save()
```

Delete a user:

```
gl.users.delete(user_id)
# or
user.delete()
```

Block/Unblock a user:

```
user.block()
user.unblock()
```

Activate/Deactivate a user:

```
user.activate()
user.deactivate()
```

Follow/Unfollow a user:

```
user.follow()
user.unfollow()
```

Set the avatar image for a user:

```
# the avatar image can be passed as data (content of the file) or as a file
# object opened in binary mode
user.avatar = open('path/to/file.png', 'rb')
user.save()
```

Set an external identity for a user:

```
user.provider = 'oauth2_generic'
user.extern_uid = '3'
user.save()
```

Delete an external identity by provider name:

```
user.identityproviders.delete('oauth2_generic')
```

Get the followers of a user

```
user.followers_users.list()
```

Get the followings of a user

```
user.following_users.list()
```

List a user's starred projects

```
user.starred_projects.list()
```

User custom attributes

References

- v4 API:
 - `gitlab.v4.objects.UserCustomAttribute`
 - `gitlab.v4.objects.UserCustomAttributeManager`
 - `gitlab.v4.objects.User.customattributes`
- GitLab API: https://docs.gitlab.com/ce/api/custom_attributes.html

Examples

List custom attributes for a user:

```
attrs = user.customattributes.list()
```

Get a custom attribute for a user:

```
attr = user.customattributes.get(attr_key)
```

Set (create or update) a custom attribute for a user:

```
attr = user.customattributes.set(attr_key, attr_value)
```

Delete a custom attribute for a user:

```
attr.delete()
# or
user.customattributes.delete(attr_key)
```

Search users by custom attribute:

```
user.customattributes.set('role', 'QA')
gl.users.list(custom_attributes={'role': 'QA'})
```

User impersonation tokens

References

- v4 API:
 - `gitlab.v4.objects.UserImpersonationToken`
 - `gitlab.v4.objects.UserImpersonationTokenManager`
 - `gitlab.v4.objects.User.impersonationtokens`
- GitLab API: <https://docs.gitlab.com/ce/api/users.html#get-all-impersonation-tokens-of-a-user>

List impersonation tokens for a user:

```
i_t = user.impersonationtokens.list(state='active')
i_t = user.impersonationtokens.list(state='inactive')
```

Get an impersonation token for a user:

```
i_t = user.impersonationtokens.get(i_t_id)
```

Create and use an impersonation token for a user:

```
i_t = user.impersonationtokens.create({'name': 'token1', 'scopes': ['api']})
# use the token to create a new gitlab connection
user_gl = gitlab.Gitlab(gitlab_url, private_token=i_t.token)
```

Revoke (delete) an impersonation token for a user:

```
i_t.delete()
```

User memberships

References

- v4 API:
 - *gitlab.v4.objects.UserMembership*
 - *gitlab.v4.objects.UserMembershipManager*
 - *gitlab.v4.objects.User.memberships*
- GitLab API: <https://docs.gitlab.com/ee/api/users.html#user-memberships-admin-only>

List direct memberships for a user:

```
memberships = user.memberships.list()
```

List only direct project memberships:

```
memberships = user.memberships.list(type='Project')
```

List only direct group memberships:

```
memberships = user.memberships.list(type='Namespace')
```

Current User

References

- v4 API:
 - *gitlab.v4.objects.CurrentUser*
 - *gitlab.v4.objects.CurrentUserManager*
 - *gitlab.Gitlab.user*
- GitLab API: <https://docs.gitlab.com/ce/api/users.html>

Examples

Get the current user:

```
gl.auth()
current_user = gl.user
```

GPG keys

References

You can manipulate GPG keys for the current user and for the other users if you are admin.

- v4 API:
 - *gitlab.v4.objects.CurrentUserGPGKey*
 - *gitlab.v4.objects.CurrentUserGPGKeyManager*
 - *gitlab.v4.objects.CurrentUser.gpgkeys*
 - *gitlab.v4.objects.UserGPGKey*
 - *gitlab.v4.objects.UserGPGKeyManager*
 - *gitlab.v4.objects.User.gpgkeys*
- GitLab API: <https://docs.gitlab.com/ce/api/users.html#list-all-gpg-keys>

Examples

List GPG keys for a user:

```
gpgkeys = user.gpgkeys.list()
```

Get a GPG gpgkey for a user:

```
gpgkey = user.gpgkeys.get(key_id)
```

Create a GPG gpgkey for a user:

```
# get the key with `gpg --export -a GPG_KEY_ID`
k = user.gpgkeys.create({'key': public_key_content})
```

Delete a GPG gpgkey for a user:

```
user.gpgkeys.delete(key_id)
# or
gpgkey.delete()
```

SSH keys

References

You can manipulate SSH keys for the current user and for the other users if you are admin.

- v4 API:
 - `gitlab.v4.objects.CurrentUserKey`
 - `gitlab.v4.objects.CurrentUserKeyManager`
 - `gitlab.v4.objects.CurrentUser.keys`
 - `gitlab.v4.objects.UserKey`
 - `gitlab.v4.objects.UserKeyManager`
 - `gitlab.v4.objects.User.keys`
- GitLab API: <https://docs.gitlab.com/ce/api/users.html#list-ssh-keys>

Examples

List SSH keys for a user:

```
keys = user.keys.list()
```

Create an SSH key for a user:

```
key = user.keys.create({'title': 'my_key',  
                        'key': open('/home/me/.ssh/id_rsa.pub').read()})
```

Get an SSH key for a user by id:

```
key = user.keys.get(key_id)
```

Delete an SSH key for a user:

```
user.keys.delete(key_id)  
# or  
key.delete()
```

Status

References

You can manipulate the status for the current user and you can read the status of other users.

- v4 API:
 - `gitlab.v4.objects.CurrentUserStatus`
 - `gitlab.v4.objects.CurrentUserStatusManager`
 - `gitlab.v4.objects.CurrentUser.status`
 - `gitlab.v4.objects.UserStatus`

- `gitlab.v4.objects.UserStatusManager`
- `gitlab.v4.objects.User.status`
- GitLab API: <https://docs.gitlab.com/ce/api/users.html#user-status>

Examples

Get current user status:

```
status = user.status.get()
```

Update the status for the current user:

```
status = user.status.get()
status.message = "message"
status.emoji = "thumbsup"
status.save()
```

Get the status of other users:

```
gl.users.get(1).status.get()
```

Emails

References

You can manipulate emails for the current user and for the other users if you are admin.

- v4 API:
 - `gitlab.v4.objects.CurrentUserEmail`
 - `gitlab.v4.objects.CurrentUserEmailManager`
 - `gitlab.v4.objects.CurrentUser.emails`
 - `gitlab.v4.objects.UserEmail`
 - `gitlab.v4.objects.UserEmailManager`
 - `gitlab.v4.objects.User.emails`
- GitLab API: <https://docs.gitlab.com/ce/api/users.html#list-emails>

Examples

List emails for a user:

```
emails = user.emails.list()
```

Get an email for a user:

```
email = user.emails.get(email_id)
```

Create an email for a user:

```
k = user.emails.create({'email': 'foo@bar.com'})
```

Delete an email for a user:

```
user.emails.delete(email_id)
# or
email.delete()
```

Users activities

References

- admin only
- v4 API:
 - *gitlab.v4.objects.UserActivities*
 - *gitlab.v4.objects.UserActivitiesManager*
 - *gitlab.Gitlab.user_activities*
- GitLab API: <https://docs.gitlab.com/ce/api/users.html#get-user-activities-admin-only>

Examples

Get the users activities:

```
activities = gl.user_activities.list(
    query_parameters={'from': '2018-07-01'},
    all=True, as_list=False)
```

6.4.52 CI/CD Variables

You can configure variables at the instance-level (admin only), or associate variables to projects and groups, to modify pipeline/job scripts behavior.

Instance-level variables

This endpoint requires admin access.

Reference

- v4 API
 - *gitlab.v4.objects.Variable*
 - *gitlab.v4.objects.VariableManager*
 - *gitlab.Gitlab.variables*
- GitLab API

- https://docs.gitlab.com/ce/api/instance_level_ci_variables.html

Examples

List all instance variables:

```
variables = gl.variables.list()
```

Get an instance variable by key:

```
variable = gl.variables.get('key_name')
```

Create an instance variable:

```
variable = gl.variables.create({'key': 'key1', 'value': 'value1'})
```

Update a variable value:

```
variable.value = 'new_value'
variable.save()
```

Remove a variable:

```
gl.variables.delete('key_name')
# or
variable.delete()
```

Projects and groups variables

Reference

- v4 API
 - *gitlab.v4.objects.ProjectVariable*
 - *gitlab.v4.objects.ProjectVariableManager*
 - *gitlab.v4.objects.Project.variables*
 - *gitlab.v4.objects.GroupVariable*
 - *gitlab.v4.objects.GroupVariableManager*
 - *gitlab.v4.objects.Group.variables*
- GitLab API
 - https://docs.gitlab.com/ce/api/instance_level_ci_variables.html
 - https://docs.gitlab.com/ce/api/project_level_variables.html
 - https://docs.gitlab.com/ce/api/group_level_variables.html

Examples

List variables:

```
p_variables = project.variables.list()
g_variables = group.variables.list()
```

Get a variable:

```
p_var = project.variables.get('key_name')
g_var = group.variables.get('key_name')
```

Create a variable:

```
var = project.variables.create({'key': 'key1', 'value': 'value1'})
var = group.variables.create({'key': 'key1', 'value': 'value1'})
```

Update a variable value:

```
var.value = 'new_value'
var.save()
# or
project.variables.update("key1", {"value": "new_value"})
```

Remove a variable:

```
project.variables.delete('key_name')
group.variables.delete('key_name')
# or
var.delete()
```

6.4.53 Sidekiq metrics

Reference

- v4 API:
 - `gitlab.v4.objects.SidekiqManager`
 - `gitlab.Gitlab.sidekiq`
- GitLab API: https://docs.gitlab.com/ce/api/sidekiq_metrics.html

Examples

```
gl.sidekiq.queue_metrics()
gl.sidekiq.process_metrics()
gl.sidekiq.job_stats()
gl.sidekiq.compound_metrics()
```

6.4.54 Wiki pages

References

- v4 API:
 - `gitlab.v4.objects.ProjectWiki`
 - `gitlab.v4.objects.ProjectWikiManager`
 - `gitlab.v4.objects.Project.wikis`
 - `gitlab.v4.objects.GroupWiki`
 - `gitlab.v4.objects.GroupWikiManager`
 - `gitlab.v4.objects.Group.wikis`
- GitLab API for Projects: <https://docs.gitlab.com/ce/api/wikis.html>
- GitLab API for Groups: https://docs.gitlab.com/ee/api/group_wikis.html

Examples

Get the list of wiki pages for a project. These do not contain the contents of the wiki page. You will need to call `get(slug)` to retrieve the content by accessing the content attribute:

```
pages = project.wikis.list()
```

Get the list of wiki pages for a group. These do not contain the contents of the wiki page. You will need to call `get(slug)` to retrieve the content by accessing the content attribute:

```
pages = group.wikis.list()
```

Get a single wiki page for a project:

```
page = project.wikis.get(page_slug)
```

Get a single wiki page for a group:

```
page = group.wikis.get(page_slug)
```

Get the contents of a wiki page:

```
print(page.content)
```

Create a wiki page on a project level:

```
page = project.wikis.create({'title': 'Wiki Page 1',
                             'content': open(a_file).read()})
```

Update a wiki page:

```
page.content = 'My new content'
page.save()
```

Delete a wiki page:

page.delete()

6.5 API reference (gitlab package)

6.5.1 Module contents

Wrapper for the GitLab API.

```
class gitlab.Gitlab(url: Optional[str] = None, private_token: Optional[str] = None, oauth_token:
    Optional[str] = None, job_token: Optional[str] = None, ssl_verify: Union[bool, str] =
    True, http_username: Optional[str] = None, http_password: Optional[str] = None,
    timeout: Optional[float] = None, api_version: str = '4', session:
    Optional[requests.sessions.Session] = None, per_page: Optional[int] = None, pagination:
    Optional[str] = None, order_by: Optional[str] = None, user_agent: str =
    'python-gitlab/3.4.0', retry_transient_errors: bool = False)
```

Bases: object

Represents a GitLab server connection.

Parameters

- **url** (*Optional[str]*) – The URL of the GitLab server (defaults to <https://gitlab.com>).
- **private_token** (*Optional[str]*) – The user private token
- **oauth_token** (*Optional[str]*) – An oauth token
- **job_token** (*Optional[str]*) – A CI job token
- **ssl_verify** (*Union[bool, str]*) – Whether SSL certificates should be validated. If the value is a string, it is the path to a CA file used for certificate validation.
- **timeout** (*Optional[float]*) – Timeout to use for requests to the GitLab server.
- **http_username** (*Optional[str]*) – Username for HTTP authentication
- **http_password** (*Optional[str]*) – Password for HTTP authentication
- **api_version** (*str*) – Gitlab API version to use (support for 4 only)
- **pagination** (*Optional[str]*) – Can be set to 'keyset' to use keyset pagination
- **order_by** (*Optional[str]*) – Set order_by globally
- **user_agent** (*str*) – A custom user agent to use for making HTTP requests.
- **retry_transient_errors** (*bool*) – Whether to retry after 500, 502, 503, 504 or 52x responses. Defaults to False.
- **session** (*Optional[requests.sessions.Session]*) –
- **per_page** (*Optional[int]*) –

Return type None

property api_url: str

The computed API base URL.

property api_version: str

The API version used (4 only).

appearance

See [*ApplicationAppearanceManager*](#)

applications

See [*ApplicationManager*](#)

audit_events

See [*AuditEventManager*](#)

auth() → None

Performs an authentication using private token.

The *user* attribute will hold a *gitlab.objects.CurrentUser* object on success.

Return type None

broadcastmessages

See [*BroadcastMessageManager*](#)

deploykeys

See [*DeployKeyManager*](#)

deploytokens

See [*DeployTokenManager*](#)

dockerfiles

See [*DockerfileManager*](#)

enable_debug() → None

Return type None

events

See [*EventManager*](#)

features

See [*FeatureManager*](#)

classmethod from_config(*gitlab_id*: *Optional[str]* = None, *config_files*: *Optional[List[str]]* = None) → *gitlab.client.Gitlab*

Create a Gitlab connection from configuration files.

Parameters

- **gitlab_id** (*Optional[str]*) – ID of the configuration section.
- **list[str]** (*config_files*) – List of paths to configuration files.
- **config_files** (*Optional[List[str]]*) –

Returns A Gitlab connection.

Raises [*gitlab.config.GitlabDataError*](#) – If the configuration is not correct.

Return type *gitlab.client.Gitlab*

geonodes

See [*GeoNodeManager*](#)

get_license(**kwargs: Any) → Dict[str, Any]

Retrieve information about the current license.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Returns The current license information

Return type Dict[str, Any]

gitignores

See [GitignoreManager](#)

gitlabciymls

See [GitlabciyamlManager](#)

groups

See [GroupManager](#)

headers

Headers that will be used in request to GitLab

hooks

See [HookManager](#)

http_delete(path: str, **kwargs: Any) → requests.models.Response

Make a DELETE request to the Gitlab server.

Parameters

- **path** (str) – Path or full URL to query ('/projects' or 'http://whatever/v4/api/projects')
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The requests object.

Raises **GitlabHttpError** – When the return code is not 2xx

Return type requests.models.Response

http_get(path: str, query_data: Optional[Dict[str, Any]] = None, streamed: bool = False, raw: bool = False, **kwargs: Any) → Union[Dict[str, Any], requests.models.Response]

Make a GET request to the Gitlab server.

Parameters

- **path** (str) – Path or full URL to query ('/projects' or 'http://whatever/v4/api/projects')
- **query_data** (Optional[Dict[str, Any]]) – Data to send as query parameters
- **streamed** (bool) – Whether the data should be streamed
- **raw** (bool) – If True do not try to parse the output as json
- ****kwargs** – Extra options to send to the server (e.g. sudo)

- **kwargs** (*Any*) –

Returns A requests result object is streamed is True or the content type is not json. The parsed json data otherwise.

Raises

- **GitlabHttpError** – When the return code is not 2xx
- **GitlabParsingError** – If the json data could not be parsed

Return type `Union[Dict[str, Any], requests.models.Response]`

http_list(*path: str, query_data: Optional[Dict[str, Any]] = None, as_list: Optional[bool] = None, **kwargs: Any*) → `Union[gitlab.client.GitlabList, List[Dict[str, Any]]]`

Make a GET request to the Gitlab server for list-oriented queries.

Parameters

- **path** (*str*) – Path or full URL to query (‘/projects’ or ‘http://whatever/v4/api/projects’)
- **query_data** (*Optional[Dict[str, Any]]*) – Data to send as query parameters
- ****kwargs** – Extra options to send to the server (e.g. sudo, page, per_page)
- **as_list** (*Optional[bool]*) –
- **kwargs** (*Any*) –

Returns A list of the objects returned by the server. If *as_list* is False and no pagination-related arguments (*page*, *per_page*, *all*) are defined then a `GitlabList` object (generator) is returned instead. This object will make API calls when needed to fetch the next items from the server.

Raises

- **GitlabHttpError** – When the return code is not 2xx
- **GitlabParsingError** – If the json data could not be parsed

Return type `Union[gitlab.client.GitlabList, List[Dict[str, Any]]]`

http_post(*path: str, query_data: Optional[Dict[str, Any]] = None, post_data: Optional[Dict[str, Any]] = None, raw: bool = False, files: Optional[Dict[str, Any]] = None, **kwargs: Any*) → `Union[Dict[str, Any], requests.models.Response]`

Make a POST request to the Gitlab server.

Parameters

- **path** (*str*) – Path or full URL to query (‘/projects’ or ‘http://whatever/v4/api/projects’)
- **query_data** (*Optional[Dict[str, Any]]*) – Data to send as query parameters
- **post_data** (*Optional[Dict[str, Any]]*) – Data to send in the body (will be converted to json by default)
- **raw** (*bool*) – If True, do not convert post_data to json
- **files** (*Optional[Dict[str, Any]]*) – The files to send to the server
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The parsed json returned by the server if json is return, else the raw content

Raises

- **GitlabHttpError** – When the return code is not 2xx

- **GitlabParsingError** – If the json data could not be parsed

Return type `Union[Dict[str, Any], requests.models.Response]`

http_put (*path: str, query_data: Optional[Dict[str, Any]] = None, post_data: Optional[Union[Dict[str, Any], bytes]] = None, raw: bool = False, files: Optional[Dict[str, Any]] = None, **kwargs: Any*) → `Union[Dict[str, Any], requests.models.Response]`

Make a PUT request to the Gitlab server.

Parameters

- **path** (*str*) – Path or full URL to query (‘/projects’ or ‘<http://whatever/v4/api/projects>’)
- **query_data** (*Optional[Dict[str, Any]]*) – Data to send as query parameters
- **post_data** (*Optional[Union[Dict[str, Any], bytes]]*) – Data to send in the body (will be converted to json by default)
- **raw** (*bool*) – If True, do not convert post_data to json
- **files** (*Optional[Dict[str, Any]]*) – The files to send to the server
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The parsed json returned by the server.

Raises

- **GitlabHttpError** – When the return code is not 2xx
- **GitlabParsingError** – If the json data could not be parsed

Return type `Union[Dict[str, Any], requests.models.Response]`

http_request (*verb: str, path: str, query_data: Optional[Dict[str, Any]] = None, post_data: Optional[Union[Dict[str, Any], bytes]] = None, raw: bool = False, streamed: bool = False, files: Optional[Dict[str, Any]] = None, timeout: Optional[float] = None, obey_rate_limit: bool = True, retry_transient_errors: Optional[bool] = None, max_retries: int = 10, **kwargs: Any*) → `requests.models.Response`

Make an HTTP request to the Gitlab server.

Parameters

- **verb** (*str*) – The HTTP method to call (‘get’, ‘post’, ‘put’, ‘delete’)
- **path** (*str*) – Path or full URL to query (‘/projects’ or ‘<http://whatever/v4/api/projects>’)
- **query_data** (*Optional[Dict[str, Any]]*) – Data to send as query parameters
- **post_data** (*Optional[Union[Dict[str, Any], bytes]]*) – Data to send in the body (will be converted to json by default)
- **raw** (*bool*) – If True, do not convert post_data to json
- **streamed** (*bool*) – Whether the data should be streamed
- **files** (*Optional[Dict[str, Any]]*) – The files to send to the server
- **timeout** (*Optional[float]*) – The timeout, in seconds, for the request
- **obey_rate_limit** (*bool*) – Whether to obey 429 Too Many Request responses. Defaults to True.
- **retry_transient_errors** (*Optional[bool]*) – Whether to retry after 500, 502, 503, 504 or 52x responses. Defaults to False.

- **max_retries** (*int*) – Max retries after 429 or transient errors, set to -1 to retry forever. Defaults to 10.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns A requests result object.

Raises [*GitlabHttpError*](#) – When the return code is not 2xx

Return type requests.models.Response

issues

See [*IssueManager*](#)

issues_statistics

See [*IssuesStatisticsManager*](#)

keys

See [*KeyManager*](#)

ldapgroups

See [*LDAPGroupManager*](#)

licenses

See [*LicenseManager*](#)

lint(*content: str, **kwargs: Any*) → Tuple[bool, List[str]]

Validate a gitlab CI configuration.

Parameters

- **content** (*str*) – The .gitlab-ci.yml content
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabVerifyError*](#) – If the validation could not be done

Returns (True, []) if the file is valid, (False, errors(list)) otherwise

Return type Tuple[bool, List[str]]

markdown(*text: str, gfm: bool = False, project: Optional[str] = None, **kwargs: Any*) → str

Render an arbitrary Markdown document.

Parameters

- **text** (*str*) – The markdown text to render
- **gfm** (*bool*) – Render text using GitLab Flavored Markdown. Default is False
- **project** (*Optional[str]*) – Full path of a project used a context when *gfm* is True
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct

- [`GitlabMarkdownError`](#) – If the server cannot perform the request

Returns The HTML rendering of the markdown text.

Return type `str`

classmethod `merge_config`(*options*: *dict*, *gitlab_id*: *Optional[str] = None*, *config_files*: *Optional[List[str]] = None*) → [`gitlab.client.Gitlab`](#)

Create a Gitlab connection by merging configuration with the following precedence:

1. Explicitly provided CLI arguments,
2. Environment variables,
3. **Configuration files:**
 - a. **explicitly defined config files:**
 - i. via the `--config-file` CLI argument,
 - ii. via the `PYTHON_GITLAB_CFG` environment variable,
 - b. user-specific config file,
 - c. system-level config file,
4. Environment variables always present in CI (`CI_SERVER_URL`, `CI_JOB_TOKEN`).

Parameters

- **options** (*dict*) – A dictionary of explicitly provided key-value options.
- **gitlab_id** (*Optional[str]*) – ID of the configuration section.
- **config_files** (*Optional[List[str]]*) – List of paths to configuration files.

Returns A Gitlab connection.

Return type ([`gitlab.Gitlab`](#))

Raises [`gitlab.config.GitlabDataError`](#) – If the configuration is not correct.

mergerequests

See [`MergeRequestManager`](#)

namespaces

See [`NamespaceManager`](#)

notificationsettings

See [`NotificationSettingsManager`](#)

pagesdomains

See [`PagesDomainManager`](#)

personal_access_tokens

See [`PersonalAccessTokenManager`](#)

projects

See [`ProjectManager`](#)

runners

See [`RunnerManager`](#)

search(*scope: str, search: str, **kwargs: Any*) → Union[[*gitlab.client.GitlabList*](#), List[Dict[str, Any]]]

Search GitLab resources matching the provided string.

Parameters

- **scope** (*str*) – Scope of the search
- **search** (*str*) – Search string
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabSearchError*](#) – If the server failed to perform the request

Returns A list of dicts describing the resources found.

Return type Union[[*gitlab.client.GitlabList*](#), List[Dict[str, Any]]]

session

Create a session object for requests

set_license(*license: str, **kwargs: Any*) → Dict[str, Any]

Add a new license.

Parameters

- **license** (*str*) – The license string
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabPostError*](#) – If the server cannot perform the request

Returns The new license information

Return type Dict[str, Any]

settings

See [*ApplicationSettingsManager*](#)

sidekiq

See [*SidekiqManager*](#)

snippets

See [*SnippetManager*](#)

ssl_verify

Whether SSL certificates should be validated

timeout

Timeout to use for requests to gitlab server

todos

See [*TodoManager*](#)

topics

See [*TopicManager*](#)

property url: str

The user-provided server URL.

user_activities

See [*UserActivitiesManager*](#)

users

See [*UserManager*](#)

variables

See [*VariableManager*](#)

version() → Tuple[str, str]

Returns the version and revision of the gitlab server.

Note that self.version and self.revision will be set on the gitlab object.

Returns

The server version and server revision. ('unknown', 'unknown') if the server doesn't perform as expected.

Return type *Tuple*[str, str]

class gitlab.**GitlabList**(gl: [*gitlab.client.Gitlab*](#), url: str, query_data: Dict[str, Any], get_next: bool = True, **kwargs: Any)

Bases: object

Generator representing a list of remote objects.

The object handles the links returned by a query to the API, and will call the API again when needed.

Parameters

- **gl** ([*gitlab.client.Gitlab*](#)) –
- **url** (str) –
- **query_data** (Dict[str, Any]) –
- **get_next** (bool) –
- **kwargs** (Any) –

Return type None

property current_page: int

The current page number.

next() → Dict[str, Any]

Return type *Dict*[str, Any]

property next_page: Optional[int]

The next page number.

If None, the current page is the last.

property per_page: Optional[int]

The number of items per page.

property prev_page: `Optional[int]`

The previous page number.

If None, the current page is the first.

property total: `Optional[int]`

The total number of items.

property total_pages: `Optional[int]`

The total number of pages.

6.5.2 Subpackages

gitlab.v4 package

Submodules

gitlab.v4.objects module

class `gitlab.v4.objects.Application`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.ApplicationAppearance`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.ApplicationAppearanceManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: `gitlab.mixins.GetWithoutIdMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id*: `Optional[Union[int, str]] = None`, ***kwargs*: `Any`) → `Optional[gitlab.v4.objects.appearance.ApplicationAppearance]`

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (`Optional[Union[int, str]]`) –
- **kwargs** (`Any`) –

Returns The generated RESTObject**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `Optional[gitlab.v4.objects.appearance.ApplicationAppearance]`

gitlab: `gitlab.client.Gitlab`

update(*id*: `Optional[Union[int, str]] = None`, *new_data*: `Dict[str, Any] = None`, ***kwargs*: `Any`) → `Dict[str, Any]`

Update an object on the server.

Parameters

- **id** (`Optional[Union[int, str]]`) – ID of the object to update (can be None if not required)
- **new_data** (`Dict[str, Any]`) – the update data for the object
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The new object data (*not* a RESTObject)**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabUpdateError** – If the server cannot perform the request

Return type `Dict[str, Any]`

class `gitlab.v4.objects.ApplicationManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: `gitlab.mixins.ListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation**Object update****Parameters**

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ApplicationSettings(manager: gitlab.base.RESTManager, attrs: Dict[str, Any],
                                           *, created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ApplicationSettingsManager(gl: gitlab.client.Gitlab, parent:
                                                  Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.GetWithoutIdMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) →
Optional[gitlab.v4.objects.settings.ApplicationSettings]
```

Retrieve a single object.

Parameters

- **`**kwargs`** – Extra options to send to the server (e.g. `sudo`)
- `id` (`Optional[Union[int, str]]`) –
- `kwargs` (`Any`) –

Returns The generated `RESTObject`

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

Return type `Optional[gitlab.v4.objects.settings.ApplicationSettings]`

gitlab: `gitlab.client.Gitlab`

update(*id*: *Optional*[*Union*[*int*, *str*]] = *None*, *new_data*: *Dict*[*str*, *Any*] = *None*, ***kwargs*: *Any*) → *Dict*[*str*, *Any*]

Update an object on the server.

Parameters

- **id** (*Optional*[*Union*[*int*, *str*]]) – ID of the object to update (can be *None* if not required)
- **new_data** (*Dict*[*str*, *Any*]) – the update data for the object
- ****kwargs** – Extra options to send to the server (e.g. *sudo*)
- **kwargs** (*Any*) –

Returns The new object data (*not* a *RESTObject*)

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabUpdateError* – If the server cannot perform the request

Return type *Dict*[*str*, *Any*]

class `gitlab.v4.objects.AuditEvent`(*manager*: `gitlab.base.RESTManager`, *attrs*: *Dict*[*str*, *Any*], *, *created_from_list*: *bool* = *False*)

Bases: `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (*Dict*[*str*, *Any*]) –
- **created_from_list** (*bool*) –

Return type *None*

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.AuditEventManager`(*gl*: `gitlab.client.Gitlab`, *parent*: *Optional*[`gitlab.base.RESTObject`] = *None*)

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.base.RESTManager`

Object listing filters

- *created_after*
- *created_before*
- *entity_type*
- *entity_id*

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional*[`gitlab.base.RESTObject`]) –

Return type *None*

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) → *gitlab.v4.objects.audit_events.AuditEvent*

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve
- **lazy** (bool) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.audit_events.AuditEvent*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.BroadcastMessage(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                         created_from_list: bool = False)
```

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (gitlab.base.RESTManager) –
- **attrs** (Dict[str, Any]) –
- **created_from_list** (bool) –

Return type None

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.BroadcastMessageManager(gl: gitlab.client.Gitlab, parent:
                                                Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (gitlab.client.Gitlab) –
- **parent** (Optional[gitlab.base.RESTObject]) –

Return type None

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) →
gitlab.v4.objects.broadcast_messages.BroadcastMessage

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve

- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.broadcast_messages.BroadcastMessage*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.CurrentUser(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

emails: *gitlab.v4.objects.users.CurrentUserEmailManager*

gpgkeys: *gitlab.v4.objects.users.CurrentUserGPGKeyManager*

keys: *gitlab.v4.objects.users.CurrentUserKeyManager*

status: *gitlab.v4.objects.users.CurrentUserStatusManager*

```
class gitlab.v4.objects.CurrentUserEmail(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                          created_from_list: bool = False)
```

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.CurrentUserEmailManager(gl: gitlab.client.Gitlab, parent:
                                                Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.RetrieveMixin, gitlab.mixins.CreateMixin, gitlab.mixins.DeleteMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`**get** (*id*: *Union*[*str*, *int*], *lazy*: *bool* = *False*, ***kwargs*: *Any*) → *gitlab.v4.objects.users.CurrentUserEmail*

Retrieve a single object.

Parameters

- **id** (*Union*[*str*, *int*]) – ID of the object to retrieve
- **lazy** (*bool*) – If *True*, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. *sudo*)
- **kwargs** (*Any*) –

Returns The generated `RESTObject`.**Raises**

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabGetError*** – If the server cannot perform the request

Return type *gitlab.v4.objects.users.CurrentUserEmail***gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.CurrentUserGPGKey(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                          created_from_list: bool = False)
```

Bases: *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject***Parameters**

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict*[*str*, *Any*]) –
- **created_from_list** (*bool*) –

Return type `None`**manager:** *gitlab.base.RESTManager*

```
class gitlab.v4.objects.CurrentUserGPGKeyManager(gl: gitlab.client.Gitlab, parent:
                                                  Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.RetrieveMixin*, *gitlab.mixins.CreateMixin*, *gitlab.mixins.DeleteMixin*, *gitlab.base.RESTManager***Object Creation****Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) → *gitlab.v4.objects.users.CurrentUserGPGKey*

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve
- **lazy** (bool) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.users.CurrentUserGPGKey*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.CurrentUserKey(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                       created_from_list: bool = False)
```

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (gitlab.base.RESTManager) –
- **attrs** (Dict[str, Any]) –
- **created_from_list** (bool) –

Return type None

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.CurrentUserKeyManager(gl: gitlab.client.Gitlab, parent:
                                              Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.RetrieveMixin, gitlab.mixins.CreateMixin, gitlab.mixins.DeleteMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (gitlab.client.Gitlab) –
- **parent** (Optional[gitlab.base.RESTObject]) –

Return type None

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) → *gitlab.v4.objects.users.CurrentUserKey*

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve

- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.users.CurrentUserKey*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.CurrentUserManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.GetWithoutIdMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) → Optional[gitlab.v4.objects.users.CurrentUser]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *Optional[gitlab.v4.objects.users.CurrentUser]*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.CurrentUserStatus(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
created_from_list: bool = False)
```

Bases: *gitlab.mixins.SaveMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –

- **created_from_list** (*bool*) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.CurrentUserStatusManager` (*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: `gitlab.mixins.GetWithoutIdMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get (*id: Optional[Union[int, str]] = None, **kwargs: Any*) → `Optional[gitlab.v4.objects.users.CurrentUserStatus]`

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (`Optional[Union[int, str]]`) –
- **kwargs** (`Any`) –

Returns The generated `RESTObject`

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `Optional[gitlab.v4.objects.users.CurrentUserStatus]`

gitlab: `gitlab.client.Gitlab`

class `gitlab.v4.objects.DeployKey` (*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (*bool*) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.DeployKeyManager(gl: gitlab.client.Gitlab, parent:
    Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.ListMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

`gitlab:` `gitlab.client.Gitlab`

```
class gitlab.v4.objects.DeployToken(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
    created_from_list: bool = False)
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type `None`

`manager:` `gitlab.base.RESTManager`

```
class gitlab.v4.objects.DeployTokenManager(gl: gitlab.client.Gitlab, parent:
    Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.ListMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

`gitlab:` `gitlab.client.Gitlab`

```
class gitlab.v4.objects.Dockerfile(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
    created_from_list: bool = False)
```

Bases: `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.DockerfileManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id*: `Union[str, int]`, *lazy*: `bool = False`, ***kwargs*: `Any`) → `gitlab.v4.objects.templates.Dockerfile`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

Return type `gitlab.v4.objects.templates.Dockerfile`

gitlab: `gitlab.client.Gitlab`

class `gitlab.v4.objects.Event`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.EventManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: `gitlab.mixins.ListMixin`, `gitlab.base.RESTManager`

Object listing filters

- **action**

- `target_type`
- `before`
- `after`
- `sort`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.Feature(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                created_from_list: bool = False)
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.FeatureManager(gl: gitlab.client.Gitlab, parent:
                                       Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.ListMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

```
set(name: str, value: Union[bool, int], feature_group: Optional[str] = None, user: Optional[str] = None,
    group: Optional[str] = None, project: Optional[str] = None, **kwargs: Any) →
gitlab.v4.objects.features.Feature
```

Create or update the object.

Parameters

- `name` (`str`) – The value to set for the object
- `value` (`Union[bool, int]`) – The value to set for the object

- **feature_group** (*Optional[str]*) – A feature group name
- **user** (*Optional[str]*) – A GitLab username
- **group** (*Optional[str]*) – A GitLab group
- **project** (*Optional[str]*) – A GitLab project in form group/project
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabSetError** – If an error occurred

Returns The created/updated attribute

Return type *gitlab.v4.objects.features.Feature*

```
class gitlab.v4.objects.GenericPackage(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                       created_from_list: bool = False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.GenericPackageManager(gl: gitlab.client.Gitlab, parent:
                                              Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.base.RESTManager*

Object Creation**Object update****Parameters**

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
download(package_name: str, package_version: str, file_name: str, streamed: bool = False, action:
          Optional[Callable] = None, chunk_size: int = 1024, **kwargs: Any) → Optional[bytes]
```

Download a generic package.

Parameters

- **package_name** (*str*) – The package name.
- **package_version** (*str*) – The package version.
- **file_name** (*str*) – The name of the file in the registry
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment

- **action** (*Optional[Callable]*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server failed to perform the request

Returns The package content if streamed is False, None otherwise

Return type *Optional[bytes]*

gitlab: *gitlab.client.Gitlab*

upload(*package_name: str, package_version: str, file_name: str, path: Union[str, pathlib.Path], **kwargs: Any*) → *gitlab.v4.objects.packages.GenericPackage*

Upload a file as a generic package.

Parameters

- **package_name** (*str*) – The package name. Must follow generic package name regex rules
- **package_version** (*str*) – The package version. Must follow semantic version regex rules
- **file_name** (*str*) – The name of the file as uploaded in the registry
- **path** (*Union[str, pathlib.Path]*) – The path to a local file to upload
- **kwargs** (*Any*) –

Raises

- **GitlabConnectionError** – If the server cannot be reached
- **GitlabUploadError** – If the file upload fails
- **GitlabUploadError** – If filepath cannot be read

Returns An object storing the metadata of the uploaded package.

Return type *gitlab.v4.objects.packages.GenericPackage*

https://docs.gitlab.com/ee/user/packages/generic_packages/

class *gitlab.v4.objects.GeoNode*(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

repair(**kwargs: Any) → None

Repair the OAuth authentication of the geo node.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabRepairError`](#) – If the server failed to perform the request

Return type None

status(**kwargs: Any) → Dict[str, Any]

Get the status of the geo node.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the server failed to perform the request

Returns The status of the geo node

Return type Dict[str, Any]

class gitlab.v4.objects.**GeoNodeManager**(gl: [`gitlab.client.Gitlab`](#), parent: *Optional*[[`gitlab.base.RESTObject`](#)] = None)

Bases: [`gitlab.mixins.RetrieveMixin`](#), [`gitlab.mixins.UpdateMixin`](#), [`gitlab.mixins.DeleteMixin`](#), [`gitlab.base.RESTManager`](#)

Object Creation

Object update

Parameters

- **gl** ([`gitlab.client.Gitlab`](#)) –
- **parent** (*Optional*[[`gitlab.base.RESTObject`](#)]) –

Return type None

current_failures(**kwargs: Any) → List[Dict[str, Any]]

Get the list of failures on the current geo node.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the server failed to perform the request

Returns The list of failures

Return type *List[Dict[str, Any]]*

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) → *gitlab.v4.objects.geo_nodes.GeoNode*

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve
- **lazy** (bool) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The generated RESTObject.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.geo_nodes.GeoNode*

gitlab: *gitlab.client.Gitlab*

status(***kwargs*: Any) → List[Dict[str, Any]]

Get the status of all the geo nodes.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server failed to perform the request

Returns The status of all the geo nodes

Return type *List[Dict[str, Any]]*

class *gitlab.v4.objects.Gitignore*(*manager*: *gitlab.base.RESTManager*, *attrs*: Dict[str, Any], *, *created_from_list*: bool = False)

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (Dict[str, Any]) –
- **created_from_list** (bool) –

Return type None

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.GitignoreManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.RetrieveMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional*[[gitlab.base.RESTObject](#)]) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.templates.Gitignore
```

Retrieve a single object.

Parameters

- **id** (*Union*[`str`, `int`]) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (*Any*) –

Returns The generated `RESTObject`.

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type [gitlab.v4.objects.templates.Gitignore](#)

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.Gitlabciyaml(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict*[`str`, `Any`]) –
- **created_from_list** (*bool*) –

Return type `None`

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.GitlabciyamlManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.RetrieveMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

`get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.templates.Gitlabciyaml`

Retrieve a single object.

Parameters

- `id` (`Union[str, int]`) – ID of the object to retrieve
- `lazy` (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- `**kwargs` – Extra options to send to the server (e.g. sudo)
- `kwargs` (`Any`) –

Returns The generated RESTObject.

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

Return type `gitlab.v4.objects.templates.Gitlabciyaml`

`gitlab:` `gitlab.client.Gitlab`

`class gitlab.v4.objects.Group(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)`

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type `None`

`access_tokens:` `gitlab.v4.objects.group_access_tokens.GroupAccessTokenManager`

`accessrequests:` `gitlab.v4.objects.access_requests.GroupAccessRequestManager`

`add_ldap_group_link(cn: str, group_access: int, provider: str, **kwargs: Any) → None`

Add an LDAP group link.

Parameters

- `cn` (`str`) – CN of the LDAP group
- `group_access` (`int`) – Minimum access level for members of the LDAP group
- `provider` (`str`) – LDAP provider for the LDAP group
- `**kwargs` – Extra options to send to the server (e.g. sudo)
- `kwargs` (`Any`) –

Raises

- `GitlabAuthenticationError` – If authentication is not correct

- *GitlabCreateError* – If the server cannot perform the request

Return type `None`

`audit_events:` *gitlab.v4.objects.audit_events.GroupAuditEventManager*

`badges:` *gitlab.v4.objects.badges.GroupBadgeManager*

`billable_members:` *gitlab.v4.objects.members.GroupBillableMemberManager*

`boards:` *gitlab.v4.objects.boards.GroupBoardManager*

`clusters:` *gitlab.v4.objects.clusters.GroupClusterManager*

`customattributes:` *gitlab.v4.objects.custom_attributes.GroupCustomAttributeManager*

`delete_ldap_group_link`(*cn: str, provider: Optional[str] = None, **kwargs: Any*) → `None`

Delete an LDAP group link.

Parameters

- `cn` (*str*) – CN of the LDAP group
- `provider` (*Optional[str]*) – LDAP provider for the LDAP group
- `**kwargs` – Extra options to send to the server (e.g. `sudo`)
- `kwargs` (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabDeleteError* – If the server cannot perform the request

Return type `None`

`deploytokens:` *gitlab.v4.objects.deploy_tokens.GroupDeployTokenManager*

`descendant_groups:` *GroupDescendantGroupManager*

`epics:` *gitlab.v4.objects.epics.GroupEpicManager*

`exports:` *gitlab.v4.objects.export_import.GroupExportManager*

`hooks:` *gitlab.v4.objects.hooks.GroupHookManager*

`imports:` *gitlab.v4.objects.export_import.GroupImportManager*

`issues:` *gitlab.v4.objects.issues.GroupIssueManager*

`issues_statistics:` *gitlab.v4.objects.statistics.GroupIssuesStatisticsManager*

`labels:` *gitlab.v4.objects.labels.GroupLabelManager*

`ldap_sync`(***kwargs: Any*) → `None`

Sync LDAP groups.

Parameters

- `**kwargs` – Extra options to send to the server (e.g. `sudo`)
- `kwargs` (*Any*) –

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabCreateError`** – If the server cannot perform the request

Return type `None`

members: `gitlab.v4.objects.members.GroupMemberManager`

members_all: `gitlab.v4.objects.members.GroupMemberAllManager`

mergerequests: `gitlab.v4.objects.merge_requests.GroupMergeRequestManager`

milestones: `gitlab.v4.objects.milestones.GroupMilestoneManager`

notificationsettings:

`gitlab.v4.objects.notification_settings.GroupNotificationSettingsManager`

packages: `gitlab.v4.objects.packages.GroupPackageManager`

projects: `gitlab.v4.objects.projects.GroupProjectManager`

runners: `gitlab.v4.objects.runners.GroupRunnerManager`

search(*scope: str, search: str, **kwargs: Any*) → Union[`gitlab.client.GitlabList`, List[Dict[str, Any]]]

Search the group resources matching the provided string.

Parameters

- **scope** (*str*) – Scope of the search
- **search** (*str*) – Search string
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabSearchError`** – If the server failed to perform the request

Returns A list of dicts describing the resources found.

Return type Union[`gitlab.client.GitlabList`, List[Dict[str, Any]]]

share(*group_id: int, group_access: int, expires_at: Optional[str] = None, **kwargs: Any*) → None

Share the group with a group.

Parameters

- **group_id** (*int*) – ID of the group.
- **group_access** (*int*) – Access level for the group.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **expires_at** (*Optional[str]*) –
- **kwargs** (*Any*) –

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabCreateError`** – If the server failed to perform the request

Returns Group

Return type None

subgroups: [*GroupSubgroupManager*](#)

transfer(*group_id: Optional[int] = None, **kwargs: Any*) → None

Transfer the group to a new parent group or make it a top-level group.

Requires GitLab 14.6.

Parameters

- **group_id** (*Optional[int]*) – ID of the new parent group. When not specified, the group to transfer is instead turned into a top-level group.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabGroupTransferError*](#) – If the group could not be transferred

Return type None

transfer_project(*project_id: int, **kwargs: Any*) → None

Transfer a project to this group.

Parameters

- **to_project_id** – ID of the project to transfer
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **project_id** (*int*) –
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabTransferProjectError*](#) – If the project could not be transferred

Return type None

unshare(*group_id: int, **kwargs: Any*) → None

Delete a shared group link within a group.

Parameters

- **group_id** (*int*) – ID of the group.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabDeleteError*](#) – If the server failed to perform the request

Return type None

variables: `gitlab.v4.objects.variables.GroupVariableManager`

wikis: `gitlab.v4.objects.wikis.GroupWikiManager`

class `gitlab.v4.objects.GroupAccessRequest`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: `gitlab.mixins.AccessRequestMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.GroupAccessRequestManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: `gitlab.mixins.ListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

class `gitlab.v4.objects.GroupAccessToken`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.GroupAccessTokenManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: `gitlab.mixins.ListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional*[`gitlab.base.RESTObject`]) –

Return type None**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupAuditEvent(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                         created_from_list: bool = False)
```

Bases: `gitlab.base.RESTObject`**Parameters**

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (*Dict*[`str`, `Any`]) –
- **created_from_list** (*bool*) –

Return type None**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.GroupAuditEventManager(gl: gitlab.client.Gitlab, parent:
                                                Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.base.RESTManager`**Object listing filters**

- **created_after**
- **created_before**

Object Creation**Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional*[`gitlab.base.RESTObject`]) –

Return type None

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) →
    gitlab.v4.objects.audit_events.GroupAuditEvent
```

Retrieve a single object.

Parameters

- **id** (*Union*[`str`, `int`]) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.audit_events.GroupAuditEvent*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.GroupBadge(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                   created_from_list: bool = False)
```

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.GroupBadgeManager(gl: gitlab.client.Gitlab, parent:
                                           Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.BadgeRenderMixin, gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get (*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.badges.GroupBadge*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.badges.GroupBadge*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.GroupBillableMember(manager: gitlab.base.RESTManager, attrs: Dict[str, Any],
*, created_from_list: bool = False)
```

Bases: [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type `None`

memberships: [GroupBillableMemberMembershipManager](#)

```
class gitlab.v4.objects.GroupBillableMemberManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.ListMixin](#), [gitlab.mixins.DeleteMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- `search`
- `sort`

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type `None`

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.GroupBillableMemberMembership(manager: gitlab.base.RESTManager, attrs:
Dict[str, Any], *, created_from_list: bool =
False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type `None`

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.GroupBillableMemberMembershipManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] =
None)
```

Bases: [gitlab.mixins.ListMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional* [`gitlab.base.RESTObject`]) –

Return type None**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupBoard(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                   created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`**Parameters**

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (*Dict* [`str`, `Any`]) –
- **created_from_list** (*bool*) –

Return type None**lists:** `gitlab.v4.objects.boards.GroupBoardListManager`

```
class gitlab.v4.objects.GroupBoardList(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                       created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`**Parameters**

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (*Dict* [`str`, `Any`]) –
- **created_from_list** (*bool*) –

Return type None**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.GroupBoardListManager(gl: gitlab.client.Gitlab, parent:
                                              Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`**Object Creation****Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional* [`gitlab.base.RESTObject`]) –

Return type None**get** (*id*: *Union* [`str`, `int`], *lazy*: *bool* = *False*, ***kwargs*: *Any*) → `gitlab.v4.objects.boards.GroupBoardList`

Retrieve a single object.

Parameters

- **id** (*Union* [`str`, `int`]) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.boards.GroupBoardList*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.GroupBoardManager(gl: gitlab.client.Gitlab, parent:
                                         Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.boards.GroupBoard
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.boards.GroupBoard*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.GroupCluster(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –

- **created_from_list** (*bool*) –

Return type None

manager: *gitlab.base.RESTManager*

class `gitlab.v4.objects.GroupClusterManager`(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

create(*data: Optional[Dict[str, Any]] = None, **kwargs: Any*) → *gitlab.v4.objects.clusters.GroupCluster*

Create a new object.

Parameters

- **data** (*Optional[Dict[str, Any]]*) – Parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the server (e.g. `sudo` or `'ref_name'`, `'stage'`, `'name'`, `'all'`)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabCreateError* – If the server cannot perform the request

Returns

A new instance of the manage object class build with the data sent by the server

Return type *gitlab.v4.objects.clusters.GroupCluster*

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.clusters.GroupCluster*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.clusters.GroupCluster*

gitlab: *gitlab.client.Gitlab*

class gitlab.v4.objects.GroupCustomAttribute(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

class gitlab.v4.objects.GroupCustomAttributeManager(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.RetrieveMixin, gitlab.mixins.SetMixin, gitlab.mixins.DeleteMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.custom_attributes.GroupCustomAttribute*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.custom_attributes.GroupCustomAttribute*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.GroupDeployToken(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                          created_from_list: bool = False)
```

Bases: [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** ([Dict\[str, Any\]](#)) –
- **created_from_list** ([bool](#)) –

Return type [None](#)

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.GroupDeployTokenManager(gl: gitlab.client.Gitlab, parent:
                                                Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.RetrieveMixin](#), [gitlab.mixins.CreateMixin](#), [gitlab.mixins.DeleteMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** ([Optional\[gitlab.base.RESTObject\]](#)) –

Return type [None](#)

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) →
    gitlab.v4.objects.deploy_tokens.GroupDeployToken
```

Retrieve a single object.

Parameters

- **id** ([Union\[str, int\]](#)) – ID of the object to retrieve
- **lazy** ([bool](#)) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** ([Any](#)) –

Returns The generated [RESTObject](#).

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type [gitlab.v4.objects.deploy_tokens.GroupDeployToken](#)

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.GroupDescendantGroup(manager: gitlab.base.RESTManager, attrs: Dict[str,
                                                                                          Any], *, created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.GroupDescendantGroupManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: `gitlab.v4.objects.groups.GroupSubgroupManager`

This manager inherits from `GroupSubgroupManager` as descendant groups share all attributes with subgroups, except the path and object class.

Object listing filters

- `skip_groups`
- `all_available`
- `search`
- `order_by`
- `sort`
- `statistics`
- `owned`
- `with_custom_attributes`
- `min_access_level`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

class `gitlab.v4.objects.GroupEpic`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.mixins.SaveMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

issues: `GroupEpicIssueManager`

resourcelabelevents: `gitlab.v4.objects.events.GroupEpicResourceLabelEventManager`

```
class gitlab.v4.objects.GroupEpicAwardEmoji(manager: gitlab.base.RESTManager, attrs: Dict[str, Any],
*, created_from_list: bool = False)
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.GroupEpicAwardEmojiManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.NoUpdateMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) →
gitlab.v4.objects.award_emojis.GroupEpicAwardEmoji
```

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated `RESTObject`.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.award_emojis.GroupEpicAwardEmoji`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupEpicDiscussionNote(manager: gitlab.base.RESTManager, attrs: Dict[str,
Any], *, created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –

- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

class *gitlab.v4.objects.GroupEpicDiscussionNoteManager*(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.GetMixin, gitlab.mixins.CreateMixin, gitlab.mixins.UpdateMixin, gitlab.mixins.DeleteMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.notes.GroupEpicDiscussionNote*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.notes.GroupEpicDiscussionNote*

gitlab: *gitlab.client.Gitlab*

class *gitlab.v4.objects.GroupEpicIssue*(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.mixins.SaveMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.v4.objects.epics.GroupEpicIssueManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *GroupEpicIssueManager*

save(**kwargs: Any) → None

Save the changes made to the object to the server.

The object is updated to match what the server returns.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabUpdateError* – If the server cannot perform the request

Return type None

```
class gitlab.v4.objects.GroupEpicIssueManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.ListMixin*, *gitlab.mixins.CreateMixin*, *gitlab.mixins.UpdateMixin*, *gitlab.mixins.DeleteMixin*, *gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

create(data: *Optional[Dict[str, Any]]* = None, **kwargs: Any) → *gitlab.v4.objects.epics.GroupEpicIssue*

Create a new object.

Parameters

- **data** (*Optional[Dict[str, Any]]*) – Parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabCreateError* – If the server cannot perform the request

Returns

A new instance of the manage object class build with the data sent by the server

Return type *gitlab.v4.objects.epics.GroupEpicIssue*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.GroupEpicManager(gl: gitlab.client.Gitlab, parent:
    Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.CRUDMixin*, *gitlab.base.RESTManager*

Object listing filters

- `author_id`
- `labels`
- `order_by`
- `sort`
- `search`

Object Creation

Object update

Parameters

- `gl` (*gitlab.client.Gitlab*) –
- `parent` (*Optional[gitlab.base.RESTObject]*) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.epics.GroupEpic
```

Retrieve a single object.

Parameters

- `id` (*Union[str, int]*) – ID of the object to retrieve
- `lazy` (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- `**kwargs` – Extra options to send to the server (e.g. sudo)
- `kwargs` (*Any*) –

Returns The generated RESTObject.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.epics.GroupEpic*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.GroupEpicNote(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
    created_from_list: bool = False)
```

Bases: *gitlab.mixins.SaveMixin*, *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject*

Parameters

- `manager` (*gitlab.base.RESTManager*) –
- `attrs` (*Dict[str, Any]*) –
- `created_from_list` (*bool*) –

Return type `None`

awardemojis: [`gitlab.v4.objects.award\_emojis.GroupEpicNoteAwardEmojiManager`](#)

class `gitlab.v4.objects.GroupEpicNoteAwardEmoji`(*manager*: [`gitlab.base.RESTManager`](#), *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: [`gitlab.mixins.ObjectDeleteMixin`](#), [`gitlab.base.RESTObject`](#)

Parameters

- **manager** ([`gitlab.base.RESTManager`](#)) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: [`gitlab.base.RESTManager`](#)

class `gitlab.v4.objects.GroupEpicNoteAwardEmojiManager`(*gl*: [`gitlab.client.Gitlab`](#), *parent*: [`Optional\[gitlab.base.RESTObject\]`](#) = `None`)

Bases: [`gitlab.mixins.NoUpdateMixin`](#), [`gitlab.base.RESTManager`](#)

Object Creation

Object update

Parameters

- **gl** ([`gitlab.client.Gitlab`](#)) –
- **parent** ([`Optional\[gitlab.base.RESTObject\]`](#)) –

Return type `None`

get(*id*: `Union[str, int]`, *lazy*: `bool = False`, ***kwargs*: `Any`) → [`gitlab.v4.objects.award\_emojis.GroupEpicNoteAwardEmoji`](#)

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the server cannot perform the request

Return type [`gitlab.v4.objects.award\_emojis.GroupEpicNoteAwardEmoji`](#)

gitlab: [`gitlab.client.Gitlab`](#)

```
class gitlab.v4.objects.GroupEpicNoteManager(gl: gitlab.client.Gitlab, parent:
                                             Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.notes.GroupEpicNote
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.notes.GroupEpicNote*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.GroupEpicResourceLabelEvent(manager: gitlab.base.RESTManager, attrs:
                                                    Dict[str, Any], *, created_from_list: bool =
                                                    False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.GroupEpicResourceLabelEventManager(gl: gitlab.client.Gitlab, parent:
                                                           Optional[gitlab.base.RESTObject] =
                                                           None)
```

Bases: *gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id*: `Union[str, int]`, *lazy*: `bool = False`, ***kwargs*: `Any`) → `gitlab.v4.objects.events.GroupEpicResourceLabelEvent`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (`Any`) –

Returns The generated `RESTObject`.**Raises**

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabGetError`** – If the server cannot perform the request

Return type `gitlab.v4.objects.events.GroupEpicResourceLabelEvent`**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupExport(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                   created_from_list: bool = False)
```

Bases: `gitlab.mixins.DownloadMixin`, `gitlab.base.RESTObject`**Parameters**

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.GroupExportManager(gl: gitlab.client.Gitlab, parent:
                                          Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.GetWithoutIdMixin`, `gitlab.mixins.CreateMixin`, `gitlab.base.RESTManager`**Object Creation****Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id: Optional[Union[int, str]] = None, **kwargs: Any*) → *Optional[gitlab.v4.objects.export_import.GroupExport]*

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *Optional[gitlab.v4.objects.export_import.GroupExport]*

gitlab: *gitlab.client.Gitlab*

class *gitlab.v4.objects.GroupHook*(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

class *gitlab.v4.objects.GroupHookManager*(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.hooks.GroupHook*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)

- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.hooks.GroupHook*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.GroupImport(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                   created_from_list: bool = False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.GroupImportManager(gl: gitlab.client.Gitlab, parent:
                                           Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.GetWithoutIdMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) →
Optional[gitlab.v4.objects.export_import.GroupImport]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *Optional[gitlab.v4.objects.export_import.GroupImport]*

gitlab: [`gitlab.client.Gitlab`](#)

```
class gitlab.v4.objects.GroupIssue(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                   created_from_list: bool = False)
```

Bases: [`gitlab.base.RESTObject`](#)

Parameters

- **manager** ([`gitlab.base.RESTManager`](#)) –
- **attrs** ([`Dict\[str, Any\]`](#)) –
- **created_from_list** ([`bool`](#)) –

Return type `None`

manager: [`gitlab.base.RESTManager`](#)

```
class gitlab.v4.objects.GroupIssueManager(gl: gitlab.client.Gitlab, parent:
                                          Optional[gitlab.base.RESTObject] = None)
```

Bases: [`gitlab.mixins.ListMixin`](#), [`gitlab.base.RESTManager`](#)

Object listing filters

- `state`
- `labels`
- `milestone`
- `order_by`
- `sort`
- `iids`
- `author_id`
- `assignee_id`
- `my_reaction_emoji`
- `search`
- `created_after`
- `created_before`
- `updated_after`
- `updated_before`

Object Creation

Object update

Parameters

- **gl** ([`gitlab.client.Gitlab`](#)) –
- **parent** ([`Optional\[gitlab.base.RESTObject\]`](#)) –

Return type `None`

gitlab: [`gitlab.client.Gitlab`](#)

```
class gitlab.v4.objects.GroupIssuesStatistics(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: [gitlab.mixins.RefreshMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** ([Dict\[str, Any\]](#)) –
- **created_from_list** ([bool](#)) –

Return type [None](#)

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.GroupIssuesStatisticsManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.GetWithoutIdMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** ([Optional\[gitlab.base.RESTObject\]](#)) –

Return type [None](#)

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) → Optional[gitlab.v4.objects.statistics.GroupIssuesStatistics]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** ([Optional\[Union\[int, str\]\]](#)) –
- **kwargs** ([Any](#)) –

Returns The generated [RESTObject](#)

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type [Optional\[gitlab.v4.objects.statistics.GroupIssuesStatistics\]](#)

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.GroupLabel(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: [gitlab.mixins.SubscribableMixin](#), [gitlab.mixins.SaveMixin](#), [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.v4.objects.labels.GroupLabelManager](#)) –
- **attrs** ([Dict\[str, Any\]](#)) –

- **created_from_list** (*bool*) –

Return type `None`

manager: `GroupLabelManager`

save(***kwargs: Any*) → `None`

Saves the changes made to the object to the server.

The object is updated to match what the server returns.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (*Any*) –

Raises

- `GitlabAuthenticationError` – If authentication is not correct.
- `GitlabUpdateError` – If the server cannot perform the request.

Return type `None`

```
class gitlab.v4.objects.GroupLabelManager(gl: gitlab.client.Gitlab, parent:
                                         Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id: Union[str, int]*, *lazy: bool = False*, ***kwargs: Any*) → `gitlab.v4.objects.labels.GroupLabel`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (*Any*) –

Returns The generated `RESTObject`.

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

Return type `gitlab.v4.objects.labels.GroupLabel`

gitlab: `gitlab.client.Gitlab`

update(*name: Optional[str], new_data: Optional[Dict[str, Any]] = None, **kwargs: Any*) → Dict[str, Any]

Update a Label on the server.

Parameters

- **name** (*Optional[str]*) – The name of the label
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **new_data** (*Optional[Dict[str, Any]]*) –
- **kwargs** (*Any*) –

Return type *Dict[str, Any]*

class gitlab.v4.objects.**GroupManager**(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object listing filters

- skip_groups
- all_available
- search
- order_by
- sort
- statistics
- owned
- with_custom_attributes
- min_access_level
- top_level_only

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.groups.Group*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabGetError`** – If the server cannot perform the request

Return type `gitlab.v4.objects.groups.Group`

gitlab: `gitlab.client.Gitlab`

```
import_group(file: BinaryIO, path: str, name: str, parent_id: Optional[str] = None, **kwargs: Any) → Union[Dict[str, Any], requests.models.Response]
```

Import a group from an archive file.

Parameters

- **file** (`BinaryIO`) – Data or file object containing the group
- **path** (`str`) – The path for the new group to be imported.
- **name** (`str`) – The name for the new group.
- **parent_id** (`Optional[str]`) – ID of a parent group that the group will be imported into.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabImportError`** – If the server failed to perform the request

Returns A representation of the import status.

Return type `Union[Dict[str, Any], requests.models.Response]`

```
class gitlab.v4.objects.GroupMember(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.GroupMemberAll(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type None

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.GroupMemberAllManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type None

get(*id*: `Union[str, int]`, *lazy*: `bool = False`, ***kwargs*: `Any`) → `gitlab.v4.objects.members.GroupMemberAll`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

Return type `gitlab.v4.objects.members.GroupMemberAll`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupMemberManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type None

get(*id*: `Union[str, int]`, *lazy*: `bool = False`, ***kwargs*: `Any`) → `gitlab.v4.objects.members.GroupMember`

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.members.GroupMember*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.GroupMergeRequest(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                           created_from_list: bool = False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.GroupMergeRequestManager(gl: gitlab.client.Gitlab, parent:
                                                  Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.ListMixin, gitlab.base.RESTManager*

Object listing filters

- state
- order_by
- sort
- milestone
- view
- labels
- created_after
- created_before
- updated_after
- updated_before
- scope
- author_id
- assignee_id

- `approver_ids`
- `approved_by_ids`
- `my_reaction_emoji`
- `source_branch`
- `target_branch`
- `search`
- `wip`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupMilestone(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                       created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (*Dict* [`str`, `Any`]) –
- `created_from_list` (*bool*) –

Return type `None`

issues (***kwargs*: `Any`) → `gitlab.base.RESTObjectList`

List issues related to this milestone.

Parameters

- `all` – If True, return all the items, without pagination
- `per_page` – Number of items to retrieve per request
- `page` – ID of the page to return (starts with page 1)
- `as_list` – If set to False and no pagination option is defined, return a generator instead of a list
- ***kwargs* – Extra options to send to the server (e.g. `sudo`)
- `kwargs` (*Any*) –

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabListError` – If the list could not be retrieved

Returns The list of issues

Return type `gitlab.base.RESTObjectList`

manager: *gitlab.base.RESTManager*

merge_requests(**kwargs: Any) → *gitlab.base.RESTObjectList*

List the merge requests related to this milestone.

Parameters

- **all** – If True, return all the items, without pagination
- **per_page** – Number of items to retrieve per request
- **page** – ID of the page to return (starts with page 1)
- **as_list** – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabListError* – If the list could not be retrieved

Returns The list of merge requests

Return type *gitlab.base.RESTObjectList*

class *gitlab.v4.objects.GroupMilestoneManager*(gl: *gitlab.client.Gitlab*, parent: *Optional[gitlab.base.RESTObject]* = None)

Bases: *gitlab.mixins.CRUDMixin*, *gitlab.base.RESTManager*

Object listing filters

- **iids**
- **state**
- **search**

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

get(id: *Union[str, int]*, lazy: *bool* = False, **kwargs: Any) → *gitlab.v4.objects.milestones.GroupMilestone*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.milestones.GroupMilestone*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.GroupNotificationSettings(manager: gitlab.base.RESTManager, attrs:
Dict[str, Any], *, created_from_list: bool = False)
```

Bases: *gitlab.v4.objects.notification_settings.NotificationSettings*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.GroupNotificationSettingsManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] =
None)
```

Bases: *gitlab.v4.objects.notification_settings.NotificationSettingsManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) →
Optional[gitlab.v4.objects.notification_settings.GroupNotificationSettings]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *Optional[gitlab.v4.objects.notification_settings.GroupNotificationSettings]*

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.GroupPackage(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type `None`

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.GroupPackageManager(gl: gitlab.client.Gitlab, parent:
                                             Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.ListMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- `exclude_subgroups`
- `order_by`
- `sort`
- `package_type`
- `package_name`

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type `None`

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.GroupProject(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type `None`

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.GroupProjectManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.ListMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- archived
- visibility
- order_by
- sort
- search
- simple
- owned
- starred
- with_custom_attributes
- include_subgroups
- with_issues_enabled
- with_merge_requests_enabled
- with_shared
- min_access_level
- with_security_reports

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional*[[gitlab.base.RESTObject](#)]) –

Return type None

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.GroupRunner(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict*[*str*, *Any*]) –
- **created_from_list** (*bool*) –

Return type None

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.GroupRunnerManager(gl: gitlab.client.Gitlab, parent:
                                         Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.ListMixin`, `gitlab.base.RESTManager`

Object listing filters

- `scope`
- `tag_list`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupSubgroup(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                       created_from_list: bool = False)
```

Bases: `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.GroupSubgroupManager(gl: gitlab.client.Gitlab, parent:
                                              Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.ListMixin`, `gitlab.base.RESTManager`

Object listing filters

- `skip_groups`
- `all_available`
- `search`
- `order_by`
- `sort`
- `statistics`
- `owned`
- `with_custom_attributes`
- `min_access_level`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional*[`gitlab.base.RESTObject`]) –

Return type `None`

```
class gitlab.v4.objects.GroupVariable(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (*Dict*[`str`, `Any`]) –
- **created_from_list** (*bool*) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.GroupVariableManager(gl: gitlab.client.Gitlab, parent:
                                             Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

Object Creation**Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional*[`gitlab.base.RESTObject`]) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.variables.GroupVariable
```

Retrieve a single object.

Parameters

- **id** (*Union*[`str`, `int`]) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated `RESTObject`.

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

Return type `gitlab.v4.objects.variables.GroupVariable`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupWiki(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                   created_from_list: bool = False)
```

Bases: [gitlab.mixins.SaveMixin](#), [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** ([Dict\[str, Any\]](#)) –
- **created_from_list** ([bool](#)) –

Return type [None](#)

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.GroupWikiManager(gl: gitlab.client.Gitlab, parent:
                                          Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.CRUDMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- **with_content**

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** ([Optional\[gitlab.base.RESTObject\]](#)) –

Return type [None](#)

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.wikis.GroupWiki
```

Retrieve a single object.

Parameters

- **id** ([Union\[str, int\]](#)) – ID of the object to retrieve
- **lazy** ([bool](#)) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** ([Any](#)) –

Returns The generated RESTObject.

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type [gitlab.v4.objects.wikis.GroupWiki](#)

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.Hook(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                              created_from_list: bool = False)
```

Bases: [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.HookManager`(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: `gitlab.mixins.NoUpdateMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → `gitlab.v4.objects.hooks.Hook`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.hooks.Hook`

gitlab: `gitlab.client.Gitlab`

class `gitlab.v4.objects.Issue`(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.IssueManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.RetrieveMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- `state`
- `labels`
- `milestone`
- `scope`
- `author_id`
- `assignee_id`
- `my_reaction_emoji`
- `iids`
- `order_by`
- `sort`
- `search`
- `created_after`
- `created_before`
- `updated_after`
- `updated_before`

Object Creation

Object update

Parameters

- `gl` ([gitlab.client.Gitlab](#)) –
- `parent` ([Optional\[gitlab.base.RESTObject\]](#)) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.issues.Issue
```

Retrieve a single object.

Parameters

- `id` ([Union\[str, int\]](#)) – ID of the object to retrieve
- `lazy` ([bool](#)) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- `**kwargs` – Extra options to send to the server (e.g. `sudo`)
- `kwargs` ([Any](#)) –

Returns The generated [RESTObject](#).

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type *gitlab.v4.objects.issues.Issue*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.IssuesStatistics(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                         created_from_list: bool = False)
```

Bases: *gitlab.mixins.RefreshMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.IssuesStatisticsManager(gl: gitlab.client.Gitlab, parent:
                                              Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.GetWithoutIdMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) →
Optional[gitlab.v4.objects.statistics.IssuesStatistics]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *Optional[gitlab.v4.objects.statistics.IssuesStatistics]*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.Key(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list:
                           bool = False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.KeyManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject]` = `None`)

Bases: `gitlab.mixins.GetMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id*: `Optional[Union[int, str]]` = `None`, *lazy*: `bool` = `False`, ***kwargs*: `Any`) → `gitlab.v4.objects.keys.Key`

Retrieve a single object.

Parameters

- **id** (`Optional[Union[int, str]]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (`Any`) –

Returns The generated `RESTObject`.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.keys.Key`

gitlab: `gitlab.client.Gitlab`

class `gitlab.v4.objects.LDAPGroup`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, ***, *created_from_list*: `bool` = `False`)

Bases: `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.LDAPGroupManager(gl: gitlab.client.Gitlab, parent:
                                     Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.base.RESTManager](#)

Object listing filters

- search
- provider

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional*[[gitlab.base.RESTObject](#)]) –

Return type `None`

gitlab: [gitlab.client.Gitlab](#)

```
list(**kwargs: Any) → Union[List[gitlab.v4.objects ldap.LDAPGroup], gitlab.base.RESTObjectList]
```

Retrieve a list of objects.

Parameters

- **all** – If True, return all the items, without pagination
- **per_page** – Number of items to retrieve per request
- **page** – ID of the page to return (starts with page 1)
- **as_list** – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The list of objects, or a generator if *as_list* is False

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabListError](#) – If the server cannot perform the request

Return type *Union*[*List*[[gitlab.v4.objects ldap.LDAPGroup](#)], [gitlab.base.RESTObjectList](#)]

```
class gitlab.v4.objects.License(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict*[*str*, *Any*]) –
- **created_from_list** (*bool*) –

Return type `None`

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.LicenseManager(gl: gitlab.client.Gitlab, parent:
    Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.RetrieveMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- popular

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional*[[gitlab.base.RESTObject](#)]) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.templates.License
```

Retrieve a single object.

Parameters

- **id** (*Union*[`str`, `int`]) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type [gitlab.v4.objects.templates.License](#)

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.MergeRequest(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
    created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict*[`str`, *Any*]) –
- **created_from_list** (*bool*) –

Return type `None`

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.MergeRequestManager(gl: gitlab.client.Gitlab, parent:
    Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.ListMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- state
- order_by
- sort
- milestone
- view
- labels
- with_labels_details
- with_merge_status_recheck
- created_after
- created_before
- updated_after
- updated_before
- scope
- author_id
- author_username
- assignee_id
- approver_ids
- approved_by_ids
- reviewer_id
- reviewer_username
- my_reaction_emoji
- source_branch
- target_branch
- search
- in
- wip
- not
- environment
- deployed_before
- deployed_after

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional* [`gitlab.base.RESTObject`]) –

Return type None

gitlab: [gitlab.client.Gitlab](#)

class gitlab.v4.objects.Namespace(*manager*: [gitlab.base.RESTManager](#), *attrs*: *Dict[str, Any]*, *, *created_from_list*: *bool = False*)

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: [gitlab.base.RESTManager](#)

class gitlab.v4.objects.NamespaceManager(*gl*: [gitlab.client.Gitlab](#), *parent*: *Optional[gitlab.base.RESTObject] = None*)

Bases: [gitlab.mixins.RetrieveMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- **search**

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get(*id*: *Union[str, int]*, *lazy*: *bool = False*, ***kwargs*: *Any*) → *gitlab.v4.objects.namespaces.Namespace*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type *gitlab.v4.objects.namespaces.Namespace*

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.NotificationSettings(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: [gitlab.mixins.SaveMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** ([Dict](#)[[str](#), [Any](#)]) –
- **created_from_list** ([bool](#)) –

Return type [None](#)

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.NotificationSettingsManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.GetWithoutIdMixin](#), [gitlab.mixins.UpdateMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** ([Optional](#)[[gitlab.base.RESTObject](#)]) –

Return type [None](#)

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) → Optional[gitlab.v4.objects.notification_settings.NotificationSettings]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** ([Optional](#)[[Union](#)[[int](#), [str](#)]]) –
- **kwargs** ([Any](#)) –

Returns The generated [RESTObject](#)

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type [Optional](#)[[gitlab.v4.objects.notification_settings.NotificationSettings](#)]

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.PagesDomain(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** ([Dict](#)[[str](#), [Any](#)]) –

- `created_from_list` (*bool*) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.PagesDomainManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.ListMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (*Optional*[`gitlab.base.RESTObject`]) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.PersonalAccessToken(manager: gitlab.base.RESTManager, attrs: Dict[str, Any],
*, created_from_list: bool = False)
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (*Dict*[*str*, *Any*]) –
- `created_from_list` (*bool*) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.PersonalAccessTokenManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.DeleteMixin`, `gitlab.mixins.ListMixin`, `gitlab.base.RESTManager`

Object listing filters

- `user_id`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (*Optional*[`gitlab.base.RESTObject`]) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.Project(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                created_from_list: bool = False)
```

Bases: [gitlab.mixins.RefreshMixin](#), [gitlab.mixins.SaveMixin](#), [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.v4.objects.repositories.RepositoryMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** ([Dict\[str, Any\]](#)) –
- **created_from_list** ([bool](#)) –

Return type [None](#)

access_tokens: [gitlab.v4.objects.project_access_tokens.ProjectAccessTokenManager](#)

accessrequests: [gitlab.v4.objects.access_requests.ProjectAccessRequestManager](#)

additionalstatistics:

[gitlab.v4.objects.statistics.ProjectAdditionalStatisticsManager](#)

approvalrules: [gitlab.v4.objects.merge_request_approvals.ProjectApprovalRuleManager](#)

approvals: [gitlab.v4.objects.merge_request_approvals.ProjectApprovalManager](#)

archive(**kwargs: Any) → [None](#)

Archive a project.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** ([Any](#)) –

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabCreateError](#) – If the server failed to perform the request

Return type [None](#)

artifact(*args: Any, **kwargs: Any) → [Optional\[bytes\]](#)

Parameters

- **args** ([Any](#)) –
- **kwargs** ([Any](#)) –

Return type [Optional\[bytes\]](#)

artifacts: [gitlab.v4.objects.artifacts.ProjectArtifactManager](#)

audit_events: [gitlab.v4.objects.audit_events.ProjectAuditEventManager](#)

badges: [gitlab.v4.objects.badges.ProjectBadgeManager](#)

boards: [gitlab.v4.objects.boards.ProjectBoardManager](#)

branches: [gitlab.v4.objects.branches.ProjectBranchManager](#)

clusters: *gitlab.v4.objects.clusters.ProjectClusterManager*

commits: *gitlab.v4.objects.commits.ProjectCommitManager*

create_fork_relation(*forked_from_id: int, **kwargs: Any*) → None

Create a forked from/to relation between existing projects.

Parameters

- **forked_from_id** (*int*) – The ID of the project that was forked from
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabCreateError* – If the relation could not be created

Return type None

customattributes: *gitlab.v4.objects.custom_attributes.ProjectCustomAttributeManager*

delete_fork_relation(***kwargs: Any*) → None

Delete a forked relation between existing projects.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabDeleteError* – If the server failed to perform the request

Return type None

deployments: *gitlab.v4.objects.deployments.ProjectDeploymentManager*

deploytokens: *gitlab.v4.objects.deploy_tokens.ProjectDeployTokenManager*

environments: *gitlab.v4.objects.environments.ProjectEnvironmentManager*

events: *gitlab.v4.objects.events.ProjectEventManager*

exports: *gitlab.v4.objects.export_import.ProjectExportManager*

files: *gitlab.v4.objects.files.ProjectFileManager*

forks: *ProjectForkManager*

generic_packages: *gitlab.v4.objects.packages.GenericPackageManager*

groups: *gitlab.v4.objects.projects.ProjectGroupManager*

hooks: *gitlab.v4.objects.hooks.ProjectHookManager*

housekeeping(**kwargs: Any) → None

Start the housekeeping task.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabHousekeepingError** – If the server failed to perform the request

Return type None

imports: `gitlab.v4.objects.export_import.ProjectImportManager`

issues: `gitlab.v4.objects.issues.ProjectIssueManager`

issues_statistics: `gitlab.v4.objects.statistics.ProjectIssuesStatisticsManager`

jobs: `gitlab.v4.objects.jobs.ProjectJobManager`

keys: `gitlab.v4.objects.deploy_keys.ProjectKeyManager`

labels: `gitlab.v4.objects.labels.ProjectLabelManager`

languages(**kwargs: Any) → Union[Dict[str, Any], requests.models.Response]

Get languages used in the project with percentage value.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server failed to perform the request

Return type Union[Dict[str, Any], requests.models.Response]

members: `gitlab.v4.objects.members.ProjectMemberManager`

members_all: `gitlab.v4.objects.members.ProjectMemberAllManager`

merge_trains: `gitlab.v4.objects.merge_trains.ProjectMergeTrainManager`

mergerequests: `gitlab.v4.objects.merge_requests.ProjectMergeRequestManager`

milestones: `gitlab.v4.objects.milestones.ProjectMilestoneManager`

mirror_pull(**kwargs: Any) → None

Start the pull mirroring process for the project.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabCreateError`** – If the server failed to perform the request

Return type `None`

notes: `gitlab.v4.objects.notes.ProjectNoteManager`

notificationsettings:

`gitlab.v4.objects.notification_settings.ProjectNotificationSettingsManager`

packages: `gitlab.v4.objects.packages.ProjectPackageManager`

pagesdomains: `gitlab.v4.objects.pages.ProjectPagesDomainManager`

pipelines: `gitlab.v4.objects.pipelines.ProjectPipelineManager`

pipelineschedules: `gitlab.v4.objects.pipelines.ProjectPipelineScheduleManager`

protectedbranches: `gitlab.v4.objects.branches.ProjectProtectedBranchManager`

protectedtags: `gitlab.v4.objects.tags.ProjectProtectedTagManager`

pushrules: `gitlab.v4.objects.push_rules.ProjectPushRulesManager`

releases: `gitlab.v4.objects.releases.ProjectReleaseManager`

remote_mirrors: `ProjectRemoteMirrorManager`

repositories: `gitlab.v4.objects.container_registry.ProjectRegistryRepositoryManager`

runners: `gitlab.v4.objects.runners.ProjectRunnerManager`

search(*scope: str, search: str, **kwargs: Any*) → Union[`gitlab.client.GitlabList`, List[Dict[str, Any]]]

Search the project resources matching the provided string.

Parameters

- **scope** (*str*) – Scope of the search
- **search** (*str*) – Search string
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabSearchError`** – If the server failed to perform the request

Returns A list of dicts describing the resources found.

Return type Union[`gitlab.client.GitlabList`, List[Dict[str, Any]]]

services: `gitlab.v4.objects.services.ProjectServiceManager`

share(*group_id: int, group_access: int, expires_at: Optional[str] = None, **kwargs: Any*) → None

Share the project with a group.

Parameters

- **group_id** (*int*) – ID of the group.
- **group_access** (*int*) – Access level for the group.

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **expires_at** (*Optional[str]*) –
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabCreateError** – If the server failed to perform the request

Return type None

snapshot (*wiki: bool = False, streamed: bool = False, action: Optional[Callable] = None, chunk_size: int = 1024, **kwargs: Any*) → *Optional[bytes]*

Return a snapshot of the repository.

Parameters

- **wiki** (*bool*) – If True return the wiki repository
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (*Optional[Callable]*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the content could not be retrieved

Returns The uncompressed tar archive of the repository**Return type** *Optional[bytes]*

snippets: *gitlab.v4.objects.snippets.ProjectSnippetManager*

star (***kwargs: Any*) → None

Star a project.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabCreateError** – If the server failed to perform the request

Return type None

tags: *gitlab.v4.objects.tags.ProjectTagManager*

transfer(*to_namespace: Union[int, str], **kwargs: Any*) → None

Transfer a project to the given namespace ID

Parameters

- **to_namespace** (*Union[int, str]*) – ID or path of the namespace to transfer the
- **to** (*project*) –
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabTransferProjectError** – If the project could not be transferred

Return type None

transfer_project(**args: Any, **kwargs: Any*) → None

Parameters

- **args** (*Any*) –
- **kwargs** (*Any*) –

Return type None

trigger_pipeline(*ref: str, token: str, variables: Optional[Dict[str, Any]] = None, **kwargs: Any*) → *gitlab.v4.objects.pipelines.ProjectPipeline*

Trigger a CI build.

See <https://gitlab.com/help/ci/triggers/README.md#trigger-a-build>

Parameters

- **ref** (*str*) – Commit to build; can be a branch name or a tag
- **token** (*str*) – The trigger token
- **variables** (*Optional[Dict[str, Any]]*) – Variables passed to the build script
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabCreateError** – If the server failed to perform the request

Return type *gitlab.v4.objects.pipelines.ProjectPipeline*

triggers: *gitlab.v4.objects.triggers.ProjectTriggerManager*

unarchive(***kwargs: Any*) → None

Unarchive a project.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabDeleteError`](#) – If the server failed to perform the request

Return type None

unshare(*group_id: int, **kwargs: Any*) → None

Delete a shared project link within a group.

Parameters

- **group_id** (*int*) – ID of the group.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabDeleteError`](#) – If the server failed to perform the request

Return type None

unstar(***kwargs: Any*) → None

Unstar a project.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabDeleteError`](#) – If the server failed to perform the request

Return type None

upload(*filename: str, filedata: Optional[bytes] = None, filepath: Optional[str] = None, **kwargs: Any*) → Dict[str, Any]

Upload the specified file into the project.

Note: Either *filedata* or *filepath* *MUST* be specified.

Parameters

- **filename** (*str*) – The name of the file being uploaded
- **filedata** (*Optional[bytes]*) – The raw data of the file being uploaded
- **filepath** (*Optional[str]*) – The path to a local file to upload (optional)
- **kwargs** (*Any*) –

Raises

- [`GitlabConnectionError`](#) – If the server cannot be reached
- [`GitlabUploadError`](#) – If the file upload fails
- [`GitlabUploadError`](#) – If *filedata* and *filepath* are not specified

- `GitlabUploadError` – If both `filedata` and `filepath` are specified

Returns

- `alt` - The alternate text for the upload
- `url` - The direct url to the uploaded file
- `markdown` - Markdown for the uploaded file

Return type A dict with the keys

users: `gitlab.v4.objects.users.ProjectUserManager`

variables: `gitlab.v4.objects.variables.ProjectVariableManager`

wikis: `gitlab.v4.objects.wikis.ProjectWikiManager`

class `gitlab.v4.objects.ProjectAccessRequest`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: `gitlab.mixins.AccessRequestMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectAccessRequestManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: `gitlab.mixins.ListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation**Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

class `gitlab.v4.objects.ProjectAccessToken`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type None

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectAccessTokenManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.ListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type None

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectAdditionalStatistics(manager: gitlab.base.RESTManager, attrs:
Dict[str, Any], *, created_from_list: bool =
False)
```

Bases: `gitlab.mixins.RefreshMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type None

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectAdditionalStatisticsManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] =
None)
```

Bases: `gitlab.mixins.GetWithoutIdMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type None

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) →
Optional[gitlab.v4.objects.statistics.ProjectAdditionalStatistics]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)

- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *Optional[gitlab.v4.objects.statistics.ProjectAdditionalStatistics]*

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.ProjectApproval(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                         created_from_list: bool = False)
```

Bases: [gitlab.mixins.SaveMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.ProjectApprovalManager(gl: gitlab.client.Gitlab, parent:
                                                Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.GetWithoutIdMixin](#), [gitlab.mixins.UpdateMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) →
Optional[gitlab.v4.objects.merge_request_approvals.ProjectApproval]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- **GitlabAuthenticationError** – If authentication is not correct

- **GitlabGetError** – If the server cannot perform the request

Return type *Optional[gitlab.v4.objects.merge_request_approvals.ProjectApproval]*

gitlab: *gitlab.client.Gitlab*

set_approvers(*approver_ids: Optional[List[int]] = None, approver_group_ids: Optional[List[int]] = None, **kwargs: Any*) → Dict[str, Any]

Change project-level allowed approvers and approver groups.

Parameters

- **approver_ids** (*Optional[List[int]]*) – User IDs that can approve MRs
- **approver_group_ids** (*Optional[List[int]]*) – Group IDs whose members can approve MRs
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabUpdateError** – If the server failed to perform the request

Returns A dict value of the result

Return type *Dict[str, Any]*

class gitlab.v4.objects.**ProjectApprovalRule**(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

class gitlab.v4.objects.**ProjectApprovalRuleManager**(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.ListMixin, gitlab.mixins.CreateMixin, gitlab.mixins.UpdateMixin, gitlab.mixins.DeleteMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectArtifact(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                         created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Dummy object to manage custom actions on artifacts

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.ProjectArtifactManager(gl: gitlab.client.Gitlab, parent:
                                              Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

delete(***kwargs: Any*) → *None*

Delete the project's artifacts on the server.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabDeleteError](#) – If the server cannot perform the request

Return type *None*

```
download(ref_name: str, job: str, streamed: bool = False, action: Optional[Callable] = None, chunk_size:
         int = 1024, **kwargs: Any) → Optional[bytes]
```

Get the job artifacts archive from a specific tag or branch.

Parameters

- **ref_name** (*str*) – Branch or tag name in repository. HEAD or SHA references
- **supported.** (*are not*) –
- **job** (*str*) – The name of the job.
- **job_token** – Job token for multi-project pipeline triggers.
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment

- **action** (*Optional[Callable]*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the artifacts could not be retrieved

Returns The artifacts if *streamed* is False, None otherwise.

Return type *Optional[bytes]*

gitlab: [gitlab.client.Gitlab](#)

raw(*ref_name: str, artifact_path: str, job: str, streamed: bool = False, action: Optional[Callable] = None, chunk_size: int = 1024, **kwargs: Any*) → *Optional[bytes]*

Download a single artifact file from a specific tag or branch from within the job's artifacts archive.

Parameters

- **ref_name** (*str*) – Branch or tag name in repository. HEAD or SHA references are not supported.
- **artifact_path** (*str*) – Path to a file inside the artifacts archive.
- **job** (*str*) – The name of the job.
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*Optional[Callable]*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the artifacts could not be retrieved

Returns The artifact if *streamed* is False, None otherwise.

Return type *Optional[bytes]*

class `gitlab.v4.objects.ProjectAudit`(*manager: [gitlab.base.RESTManager](#), attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: [gitlab.v4.objects.audit_events.ProjectAuditEvent](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type None

manager: [`gitlab.base.RESTManager`](#)

class `gitlab.v4.objects.ProjectAuditEvent`(*manager*: [`gitlab.base.RESTManager`](#), *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: [`gitlab.base.RESTObject`](#)

Parameters

- **manager** ([`gitlab.base.RESTManager`](#)) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: [`gitlab.base.RESTManager`](#)

class `gitlab.v4.objects.ProjectAuditEventManager`(*gl*: [`gitlab.client.Gitlab`](#), *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: [`gitlab.mixins.RetrieveMixin`](#), [`gitlab.base.RESTManager`](#)

Object listing filters

- **created_after**
- **created_before**

Object Creation

Object update

Parameters

- **gl** ([`gitlab.client.Gitlab`](#)) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id*: `Union[str, int]`, *lazy*: `bool = False`, ***kwargs*: `Any`) → [`gitlab.v4.objects.audit\_events.ProjectAuditEvent`](#)

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the server cannot perform the request

Return type [`gitlab.v4.objects.audit\_events.ProjectAuditEvent`](#)

gitlab: [`gitlab.client.Gitlab`](#)

```
class gitlab.v4.objects.ProjectAuditManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.v4.objects.audit_events.ProjectAuditEventManager`

Object listing filters

- `created_after`
- `created_before`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectBadge(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectBadgeManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.BadgeRenderMixin`, `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

`get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.badges.ProjectBadge`

Retrieve a single object.

Parameters

- `id` (`Union[str, int]`) – ID of the object to retrieve
- `lazy` (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- `**kwargs` – Extra options to send to the server (e.g. sudo)

- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabGetError*** – If the server cannot perform the request

Return type *gitlab.v4.objects.badges.ProjectBadge*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectBoard(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

lists: *gitlab.v4.objects.boards.ProjectBoardListManager*

```
class gitlab.v4.objects.ProjectBoardList(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                          created_from_list: bool = False)
```

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectBoardListManager(gl: gitlab.client.Gitlab, parent:
                                                Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get (*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.boards.ProjectBoardList*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.boards.ProjectBoardList*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectBoardManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.boards.ProjectBoard
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.boards.ProjectBoard*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectBranch(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
created_from_list: bool = False)
```

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectBranchManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: `gitlab.mixins.NoUpdateMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id*: `Union[str, int]`, *lazy*: `bool = False`, ***kwargs*: `Any`) → `gitlab.v4.objects.branches.ProjectBranch`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (`Any`) –

Returns The generated `RESTObject`.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.branches.ProjectBranch`

gitlab: `gitlab.client.Gitlab`

class `gitlab.v4.objects.ProjectCluster`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, ***, *created_from_list*: `bool = False`)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectClusterManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.CRUDMixin*, *gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
create(data: Optional[Dict[str, Any]] = None, **kwargs: Any) → gitlab.v4.objects.clusters.ProjectCluster
```

Create a new object.

Parameters

- **data** (*Optional[Dict[str, Any]]*) – Parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the server (e.g. `sudo` or `'ref_name'`, `'stage'`, `'name'`, `'all'`)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabCreateError* – If the server cannot perform the request

Returns

A new instance of the manage object class build with the data sent by the server

Return type *gitlab.v4.objects.clusters.ProjectCluster*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.clusters.ProjectCluster
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.clusters.ProjectCluster*

```
gitlab: gitlab.client.Gitlab
```

```
class gitlab.v4.objects.ProjectCommit(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

```
cherry_pick(branch: str, **kwargs: Any) → None
```

Cherry-pick a commit into a branch.

Parameters

- **branch** (*str*) – Name of target branch
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabCherryPickError](#) – If the cherry-pick could not be performed

Return type *None*

comments: [ProjectCommitCommentManager](#)

```
diff(**kwargs: Any) → Union[gitlab.client.GitlabList, List[Dict[str, Any]]]
```

Generate the commit diff.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the diff could not be retrieved

Returns The changes done in this commit

Return type *Union[gitlab.client.GitlabList, List[Dict[str, Any]]]*

discussions: [gitlab.v4.objects.discussions.ProjectCommitDiscussionManager](#)

```
merge_requests(**kwargs: Any) → Union[gitlab.client.GitlabList, List[Dict[str, Any]]]
```

List the merge requests related to the commit.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct

- **GitlabGetError** – If the references could not be retrieved

Returns The merge requests related to the commit.

Return type `Union[gitlab.client.GitlabList, List[Dict[str, Any]]]`

refs(*type*: *str* = 'all', ***kwargs*: *Any*) → `Union[gitlab.client.GitlabList, List[Dict[str, Any]]]`

List the references the commit is pushed to.

Parameters

- **type** (*str*) – The scope of references ('branch', 'tag' or 'all')
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the references could not be retrieved

Returns The references the commit is pushed to.

Return type `Union[gitlab.client.GitlabList, List[Dict[str, Any]]]`

revert(*branch*: *str*, ***kwargs*: *Any*) → `Union[Dict[str, Any], requests.models.Response]`

Revert a commit on a given branch.

Parameters

- **branch** (*str*) – Name of target branch
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabRevertError** – If the revert could not be performed

Returns The new commit data (*not* a RESTObject)

Return type `Union[Dict[str, Any], requests.models.Response]`

signature(***kwargs*: *Any*) → `Union[Dict[str, Any], requests.models.Response]`

Get the signature of the commit.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the signature could not be retrieved

Returns The commit's signature data

Return type `Union[Dict[str, Any], requests.models.Response]`

statuses: [*ProjectCommitStatusManager*](#)

```
class gitlab.v4.objects.ProjectCommitComment(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.ProjectCommitCommentManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.ListMixin](#), [gitlab.mixins.CreateMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.ProjectCommitDiscussion(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

notes: [gitlab.v4.objects.notes.ProjectCommitDiscussionNoteManager](#)

```
class gitlab.v4.objects.ProjectCommitDiscussionManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.RetrieveMixin](#), [gitlab.mixins.CreateMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) →
gitlab.v4.objects.discussions.ProjectCommitDiscussion

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve
- **lazy** (bool) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.discussions.ProjectCommitDiscussion*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectCommitDiscussionNote(manager: gitlab.base.RESTManager, attrs:
                                                    Dict[str, Any], *, created_from_list: bool =
                                                    False)
```

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (gitlab.base.RESTManager) –
- **attrs** (Dict[str, Any]) –
- **created_from_list** (bool) –

Return type None

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectCommitDiscussionNoteManager(gl: gitlab.client.Gitlab, parent:
                                                            Optional[gitlab.base.RESTObject] =
                                                            None)
```

Bases: *gitlab.mixins.GetMixin, gitlab.mixins.CreateMixin, gitlab.mixins.UpdateMixin, gitlab.mixins.DeleteMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (gitlab.client.Gitlab) –
- **parent** (Optional[gitlab.base.RESTObject]) –

Return type None

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) → *gitlab.v4.objects.notes.ProjectCommitDiscussionNote*

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve
- **lazy** (bool) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The generated RESTObject.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.notes.ProjectCommitDiscussionNote*

gitlab: *gitlab.client.Gitlab*

class *gitlab.v4.objects.ProjectCommitManager*(*gl*: *gitlab.client.Gitlab*, *parent*: *Optional[gitlab.base.RESTObject]* = None)

Bases: *gitlab.mixins.RetrieveMixin*, *gitlab.mixins.CreateMixin*, *gitlab.base.RESTManager*

Object listing filters

- *ref_name*
- *since*
- *until*
- *path*
- *with_stats*
- *first_parent*
- *order*
- *trailers*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) → *gitlab.v4.objects.commits.ProjectCommit*

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve

- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.commits.ProjectCommit*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectCommitStatus(manager: gitlab.base.RESTManager, attrs: Dict[str, Any],
*, created_from_list: bool = False)
```

Bases: *gitlab.mixins.RefreshMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectCommitStatusManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.ListMixin, gitlab.mixins.CreateMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
create(data: Optional[Dict[str, Any]] = None, **kwargs: Any) →
gitlab.v4.objects.commits.ProjectCommitStatus
```

Create a new object.

Parameters

- **data** (*Optional[Dict[str, Any]]*) – Parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the server (e.g. sudo or 'ref_name', 'stage', 'name', 'all')
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabCreateError`](#) – If the server cannot perform the request

Returns

A new instance of the manage object class build with the data sent by the server

Return type `gitlab.v4.objects.commits.ProjectCommitStatus`

gitlab: [`gitlab.client.Gitlab`](#)

```
class gitlab.v4.objects.ProjectCustomAttribute(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: [`gitlab.mixins.ObjectDeleteMixin`](#), [`gitlab.base.RESTObject`](#)

Parameters

- **manager** ([`gitlab.base.RESTManager`](#)) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: [`gitlab.base.RESTManager`](#)

```
class gitlab.v4.objects.ProjectCustomAttributeManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: [`gitlab.mixins.RetrieveMixin`](#), [`gitlab.mixins.SetMixin`](#), [`gitlab.mixins.DeleteMixin`](#), [`gitlab.base.RESTManager`](#)

Object Creation**Object update****Parameters**

- **gl** ([`gitlab.client.Gitlab`](#)) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.custom_attributes.ProjectCustomAttribute
```

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the server cannot perform the request

Return type *gitlab.v4.objects.custom_attributes.ProjectCustomAttribute*

gitlab: *gitlab.client.Gitlab*

class gitlab.v4.objects.**ProjectDeployToken**(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

class gitlab.v4.objects.**ProjectDeployTokenManager**(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.RetrieveMixin, gitlab.mixins.CreateMixin, gitlab.mixins.DeleteMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.deploy_tokens.ProjectDeployToken*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.deploy_tokens.ProjectDeployToken*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectDeployment(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                          created_from_list: bool = False)
```

Bases: [gitlab.mixins.SaveMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** ([Dict\[str, Any\]](#)) –
- **created_from_list** ([bool](#)) –

Return type [None](#)

mergerequests:

[gitlab.v4.objects.merge_requests.ProjectDeploymentMergeRequestManager](#)

```
class gitlab.v4.objects.ProjectDeploymentManager(gl: gitlab.client.Gitlab, parent:
                                                Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.RetrieveMixin](#), [gitlab.mixins.CreateMixin](#), [gitlab.mixins.UpdateMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- **order_by**
- **sort**
- **updated_after**
- **updated_before**
- **environment**
- **status**

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** ([Optional\[gitlab.base.RESTObject\]](#)) –

Return type [None](#)

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) →
    gitlab.v4.objects.deployments.ProjectDeployment
```

Retrieve a single object.

Parameters

- **id** ([Union\[str, int\]](#)) – ID of the object to retrieve
- **lazy** ([bool](#)) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** ([Any](#)) –

Returns The generated [RESTObject](#).

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabGetError`** – If the server cannot perform the request

Return type `gitlab.v4.objects.deployments.ProjectDeployment`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectDeploymentMergeRequest(manager: gitlab.base.RESTManager, attrs:
Dict[str, Any], *, created_from_list: bool =
False)
```

Bases: `gitlab.v4.objects.merge_requests.MergeRequest`

Parameters

- **`manager`** (`gitlab.base.RESTManager`) –
- **`attrs`** (`Dict[str, Any]`) –
- **`created_from_list`** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectDeploymentMergeRequestManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] =
None)
```

Bases: `gitlab.v4.objects.merge_requests.MergeRequestManager`

Object listing filters

- `state`
- `order_by`
- `sort`
- `milestone`
- `view`
- `labels`
- `with_labels_details`
- `with_merge_status_recheck`
- `created_after`
- `created_before`
- `updated_after`
- `updated_before`
- `scope`
- `author_id`
- `author_username`
- `assignee_id`
- `approver_ids`
- `approved_by_ids`

- reviewer_id
- reviewer_username
- my_reaction_emoji
- source_branch
- target_branch
- search
- in
- wip
- not
- environment
- deployed_before
- deployed_after

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional* [`gitlab.base.RESTObject`]) –

Return type None

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectEnvironment(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                           created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (*bool*) –

Return type None

manager: `gitlab.base.RESTManager`

```
stop(**kwargs: Any) → Union[Dict[str, Any], requests.models.Response]
```

Stop the environment.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabStopError` – If the operation failed

Returns A dict of the result.

Return type `Union[Dict[str, Any], requests.models.Response]`

```
class gitlab.v4.objects.ProjectEnvironmentManager(gl: gitlab.client.Gitlab, parent:
                                                Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object listing filters

- name
- search
- states

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) →
gitlab.v4.objects.environments.ProjectEnvironment
```

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.environments.ProjectEnvironment`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectEvent(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: `gitlab.v4.objects.events.Event`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type None

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectEventManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.v4.objects.events.EventManager`

Object listing filters

- `action`
- `target_type`
- `before`
- `after`
- `sort`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type None

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectExport(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
created_from_list: bool = False)
```

Bases: `gitlab.mixins.DownloadMixin`, `gitlab.mixins.RefreshMixin`, `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type None

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectExportManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.GetWithoutIdMixin`, `gitlab.mixins.CreateMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type None

get(*id*: *Optional[Union[int, str]] = None*, ***kwargs*: *Any*) → *Optional[gitlab.v4.objects.export_import.ProjectExport]*

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *Optional[gitlab.v4.objects.export_import.ProjectExport]*

gitlab: *gitlab.client.Gitlab*

class *gitlab.v4.objects.ProjectFile*(*manager*: *gitlab.base.RESTManager*, *attrs*: *Dict[str, Any]*, *, *created_from_list*: *bool = False*)

Bases: *gitlab.mixins.SaveMixin*, *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.v4.objects.files.ProjectFileManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

decode() → *bytes*

Returns the decoded content of the file.

Returns The decoded content.

Return type *bytes*

delete(*branch*: *str*, *commit_message*: *str*, ***kwargs*: *Any*) → *None*

Delete the file from the server.

Parameters

- **branch** (*str*) – Branch from which the file will be removed
- **commit_message** (*str*) – Commit message for the deletion
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabDeleteError** – If the server cannot perform the request

Return type *None*

file_path: *str*

manager: [*ProjectFileManager*](#)

save(*branch: str, commit_message: str, **kwargs: Any*) → None

Save the changes made to the file to the server.

The object is updated to match what the server returns.

Parameters

- **branch** (*str*) – Branch in which the file will be updated
- **commit_message** (*str*) – Message to send with the commit
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabUpdateError*](#) – If the server cannot perform the request

Return type None

class gitlab.v4.objects.**ProjectFileManager**(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: [*gitlab.mixins.GetMixin*](#), [*gitlab.mixins.CreateMixin*](#), [*gitlab.mixins.UpdateMixin*](#), [*gitlab.mixins.DeleteMixin*](#), [*gitlab.base.RESTManager*](#)

Object Creation

Object update

Parameters

- **gl** ([*gitlab.client.Gitlab*](#)) –
- **parent** (*Optional[[*gitlab.base.RESTObject*](#)]*) –

Return type None

blame(*file_path: str, ref: str, **kwargs: Any*) → List[Dict[str, Any]]

Return the content of a file for a commit.

Parameters

- **file_path** (*str*) – Path of the file to retrieve
- **ref** (*str*) – Name of the branch, tag or commit
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabListError*](#) – If the server failed to perform the request

Returns A list of commits/lines matching the file

Return type *List[Dict[str, Any]]*

create(*data*: *Optional[Dict[str, Any]] = None*, ***kwargs*: *Any*) → *gitlab.v4.objects.files.ProjectFile*

Create a new object.

Parameters

- **data** (*Optional[Dict[str, Any]]*) – parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns

a new instance of the managed object class built with the data sent by the server

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabCreateError* – If the server cannot perform the request

Return type *gitlab.v4.objects.files.ProjectFile*

delete(*file_path*: *str*, *branch*: *str*, *commit_message*: *str*, ***kwargs*: *Any*) → *None*

Delete a file on the server.

Parameters

- **file_path** (*str*) – Path of the file to remove
- **branch** (*str*) – Branch from which the file will be removed
- **commit_message** (*str*) – Commit message for the deletion
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabDeleteError* – If the server cannot perform the request

Return type *None*

get(*file_path*: *str*, *ref*: *str*, ***kwargs*: *Any*) → *gitlab.v4.objects.files.ProjectFile*

Retrieve a single file.

Parameters

- **file_path** (*str*) – Path of the file to retrieve
- **ref** (*str*) – Name of the branch, tag or commit
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the file could not be retrieved

Returns The generated RESTObject

Return type *gitlab.v4.objects.files.ProjectFile*

gitlab: [`gitlab.client.Gitlab`](#)

raw(*file_path: str, ref: str, streamed: bool = False, action: Optional[Callable[[...], Any]] = None, chunk_size: int = 1024, **kwargs: Any*) → *Optional[bytes]*

Return the content of a file for a commit.

Parameters

- **ref** (*str*) – ID of the commit
- **filepath** – Path of the file to return
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*Optional[Callable[[...], Any]]*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **file_path** (*str*) –
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the file could not be retrieved

Returns The file content

Return type *Optional[bytes]*

update(*file_path: str, new_data: Optional[Dict[str, Any]] = None, **kwargs: Any*) → *Dict[str, Any]*

Update an object on the server.

Parameters

- **id** – ID of the object to update (can be None if not required)
- **new_data** (*Optional[Dict[str, Any]]*) – the update data for the object
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **file_path** (*str*) –
- **kwargs** (*Any*) –

Returns The new object data (*not* a RESTObject)

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabUpdateError`](#) – If the server cannot perform the request

Return type *Dict[str, Any]*

class `gitlab.v4.objects.ProjectFork`(*manager: [gitlab.base.RESTManager](#), attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: [`gitlab.base.RESTObject`](#)

Parameters

- **manager** ([`gitlab.base.RESTManager`](#)) –

- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type None

manager: *gitlab.base.RESTManager*

class *gitlab.v4.objects.ProjectForkManager* (*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.CreateMixin, gitlab.mixins.ListMixin, gitlab.base.RESTManager*

Object listing filters

- archived
- visibility
- order_by
- sort
- search
- simple
- owned
- membership
- starred
- statistics
- with_custom_attributes
- with_issues_enabled
- with_merge_requests_enabled

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

create (*data: Optional[Dict[str, Any]] = None, **kwargs: Any*) → *gitlab.v4.objects.projects.ProjectFork*

Creates a new object.

Parameters

- **data** (*Optional[Dict[str, Any]]*) – Parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabCreateError* – If the server cannot perform the request

Returns

A new instance of the managed object class build with the data sent by the server

Return type `gitlab.v4.objects.projects.ProjectFork`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectHook(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectHookManager(gl: gitlab.client.Gitlab, parent:
                                           Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

Object Creation**Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get (`id: Union[str, int]`, `lazy: bool = False`, `**kwargs: Any`) → `gitlab.v4.objects.hooks.ProjectHook`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated `RESTObject`.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.hooks.ProjectHook`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectImport(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: `gitlab.mixins.RefreshMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectImportManager(gl: gitlab.client.Gitlab, parent:
                                             Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.GetWithoutIdMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) →
Optional[gitlab.v4.objects.export_import.ProjectImport]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (`Optional[Union[int, str]]`) –
- **kwargs** (`Any`) –

Returns The generated RESTObject

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `Optional[gitlab.v4.objects.export_import.ProjectImport]`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectIssue(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: `gitlab.mixins.UserAgentDetailMixin`, `gitlab.mixins.SubscribableMixin`, `gitlab.mixins.TODOMixin`, `gitlab.mixins.TimeTrackingMixin`, `gitlab.mixins.ParticipantsMixin`, `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –

- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

awardemojis: [*gitlab.v4.objects.award_emojis.ProjectIssueAwardEmojiManager*](#)

closed_by(***kwargs: Any*) → *Dict[str, Any]*

List merge requests that will close the issue when merged.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabGetError*](#) – If the merge requests could not be retrieved

Returns The list of merge requests.

Return type *Dict[str, Any]*

discussions: [*gitlab.v4.objects.discussions.ProjectIssueDiscussionManager*](#)

links: [*ProjectIssueLinkManager*](#)

move(*to_project_id: int, **kwargs: Any*) → *None*

Move the issue to another project.

Parameters

- **to_project_id** (*int*) – ID of the target project
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabUpdateError*](#) – If the issue could not be moved

Return type *None*

notes: [*gitlab.v4.objects.notes.ProjectIssueNoteManager*](#)

related_merge_requests(***kwargs: Any*) → *Dict[str, Any]*

List merge requests related to the issue.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabGetError*](#) – If the merge requests could not be retrieved

Returns The list of merge requests.

Return type *Dict[str, Any]*

resourcelabelevents: *gitlab.v4.objects.events.ProjectIssueResourceLabelEventManager*

resourceilestoneevents:

gitlab.v4.objects.events.ProjectIssueResourceMilestoneEventManager

resourcestateevents: *gitlab.v4.objects.events.ProjectIssueResourceStateEventManager*

class *gitlab.v4.objects.ProjectIssueAwardEmoji*(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

class *gitlab.v4.objects.ProjectIssueAwardEmojiManager*(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.NoUpdateMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.award_emojis.ProjectIssueAwardEmoji*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.award_emojis.ProjectIssueAwardEmoji*

gitlab: [gitlab.client.Gitlab](#)

class gitlab.v4.objects.**ProjectIssueDiscussion**(manager: [gitlab.base.RESTManager](#), attrs: *Dict[str, Any]*, *, created_from_list: bool = False)

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (bool) –

Return type None

notes: [gitlab.v4.objects.notes.ProjectIssueDiscussionNoteManager](#)

class gitlab.v4.objects.**ProjectIssueDiscussionManager**(gl: [gitlab.client.Gitlab](#), parent: *Optional[gitlab.base.RESTObject]* = None)

Bases: [gitlab.mixins.RetrieveMixin](#), [gitlab.mixins.CreateMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

get(id: *Union[str, int]*, lazy: bool = False, **kwargs: Any) → [gitlab.v4.objects.discussions.ProjectIssueDiscussion](#)

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (bool) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The generated RESTObject.

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type [gitlab.v4.objects.discussions.ProjectIssueDiscussion](#)

gitlab: [gitlab.client.Gitlab](#)

class gitlab.v4.objects.**ProjectIssueDiscussionNote**(manager: [gitlab.base.RESTManager](#), attrs: *Dict[str, Any]*, *, created_from_list: bool = False)

Bases: [gitlab.mixins.SaveMixin](#), [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectIssueDiscussionNoteManager` (*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: `gitlab.mixins.GetMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get (*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → `gitlab.v4.objects.notes.ProjectIssueDiscussionNote`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.notes.ProjectIssueDiscussionNote`

gitlab: `gitlab.client.Gitlab`

class `gitlab.v4.objects.ProjectIssueLink` (*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type None

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectIssueLinkManager`(*gl*: `gitlab.client.Gitlab`, *parent*:
Optional[`gitlab.base.RESTObject`] = None)

Bases: `gitlab.mixins.ListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`,
`gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional*[`gitlab.base.RESTObject`]) –

Return type None

create(*data*: *Dict*[*str*, *Any*], ***kwargs*: *Any*) → *Tuple*[`gitlab.base.RESTObject`, `gitlab.base.RESTObject`]

Create a new object.

Parameters

- **data** (*Dict*[*str*, *Any*]) – parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The source and target issues

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the server cannot perform the request

Return type *Tuple*[`gitlab.base.RESTObject`, `gitlab.base.RESTObject`]

gitlab: `gitlab.client.Gitlab`

class `gitlab.v4.objects.ProjectIssueManager`(*gl*: `gitlab.client.Gitlab`, *parent*:
Optional[`gitlab.base.RESTObject`] = None)

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

Object listing filters

- `iids`
- `state`
- `labels`
- `milestone`
- `scope`
- `author_id`
- `assignee_id`
- `my_reaction_emoji`
- `order_by`

- `sort`
- `search`
- `created_after`
- `created_before`
- `updated_after`
- `updated_before`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`

get(*id*: *Union*[*str*, *int*], *lazy*: *bool* = *False*, ***kwargs*: *Any*) → *gitlab.v4.objects.issues.ProjectIssue*

Retrieve a single object.

Parameters

- `id` (*Union*[*str*, *int*]) – ID of the object to retrieve
- `lazy` (*bool*) – If *True*, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- `**kwargs` – Extra options to send to the server (e.g. *sudo*)
- `kwargs` (*Any*) –

Returns The generated *RESTObject*.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.issues.ProjectIssue*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectIssueNote(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                          created_from_list: bool = False)
```

Bases: *gitlab.mixins.SaveMixin*, *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject*

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (*Dict*[*str*, *Any*]) –
- `created_from_list` (*bool*) –

Return type `None`

awardemojis: *gitlab.v4.objects.award_emojis.ProjectIssueNoteAwardEmojiManager*

```
class gitlab.v4.objects.ProjectIssueNoteAwardEmoji(manager: gitlab.base.RESTManager, attrs:
                                                    Dict[str, Any], *, created_from_list: bool = False)
```

Bases: *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectIssueNoteAwardEmojiManager(gl: gitlab.client.Gitlab, parent:
                                                         Optional[gitlab.base.RESTObject] =
                                                         None)
```

Bases: *gitlab.mixins.NoUpdateMixin*, *gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) →
gitlab.v4.objects.award_emojis.ProjectIssueNoteAwardEmoji
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated *RESTObject*.

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabGetError*** – If the server cannot perform the request

Return type *gitlab.v4.objects.award_emojis.ProjectIssueNoteAwardEmoji*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectIssueNoteManager(gl: gitlab.client.Gitlab, parent:
                                                Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.CRUDMixin*, *gitlab.base.RESTManager*

Object Creation

Object update**Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`**get**(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.notes.ProjectIssueNote*

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.notes.ProjectIssueNote***gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectIssueResourceLabelEvent(manager: gitlab.base.RESTManager, attrs:
Dict[str, Any], *, created_from_list: bool =
False)
```

Bases: *gitlab.base.RESTObject***Parameters**

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`**manager:** *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectIssueResourceLabelEventManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject]
= None)
```

Bases: *gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager***Object Creation****Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type None

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) →
gitlab.v4.objects.events.ProjectIssueResourceLabelEvent

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve
- **lazy** (bool) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The generated RESTObject.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.events.ProjectIssueResourceLabelEvent*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectIssueResourceMilestoneEvent(manager: gitlab.base.RESTManager,  
                                                         attrs: Dict[str, Any], *,  
                                                         created_from_list: bool = False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (gitlab.base.RESTManager) –
- **attrs** (Dict[str, Any]) –
- **created_from_list** (bool) –

Return type None

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectIssueResourceMilestoneEventManager(gl: gitlab.client.Gitlab, parent:  
                                                                Op-  
                                                                tional[gitlab.base.RESTObject]  
                                                                = None)
```

Bases: *gitlab.mixins.RetrieveMixin*, *gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (gitlab.client.Gitlab) –
- **parent** (Optional[gitlab.base.RESTObject]) –

Return type None

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) →
[gitlab.v4.objects.events.ProjectIssueResourceMilestoneEvent](#)

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve
- **lazy** (bool) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The generated RESTObject.

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type [gitlab.v4.objects.events.ProjectIssueResourceMilestoneEvent](#)

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.ProjectIssueResourceStateEvent(manager: gitlab.base.RESTManager, attrs:
    Dict[str, Any], *, created_from_list: bool =
    False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (Dict[str, Any]) –
- **created_from_list** (bool) –

Return type None

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.ProjectIssueResourceStateEventManager(gl: gitlab.client.Gitlab, parent:
    Optional[gitlab.base.RESTObject]
    = None)
```

Bases: [gitlab.mixins.RetrieveMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (Optional[[gitlab.base.RESTObject](#)]) –

Return type None

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) →
[gitlab.v4.objects.events.ProjectIssueResourceStateEvent](#)

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.events.ProjectIssueResourceStateEvent*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectIssuesStatistics(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: *gitlab.mixins.RefreshMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectIssuesStatisticsManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.GetWithoutIdMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) → Optional[gitlab.v4.objects.statistics.ProjectIssuesStatistics]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- **[GitlabAuthenticationError](#)** – If authentication is not correct
- **[GitlabGetError](#)** – If the server cannot perform the request

Return type *Optional[gitlab.v4.objects.statistics.ProjectIssuesStatistics]*

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.ProjectJob(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                   created_from_list: bool = False)
```

Bases: [gitlab.mixins.RefreshMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

```
artifact(path: str, streamed: bool = False, action: Optional[Callable[[...], Any]] = None, chunk_size: int
          = 1024, **kwargs: Any) → Optional[bytes]
```

Get a single artifact file from within the job's artifacts archive.

Parameters

- **path** (*str*) – Path of the artifact
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*Optional[Callable[[...], Any]]*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **[GitlabAuthenticationError](#)** – If authentication is not correct
- **[GitlabGetError](#)** – If the artifacts could not be retrieved

Returns The artifacts if *streamed* is False, None otherwise.

Return type *Optional[bytes]*

```
artifacts(streamed: bool = False, action: Optional[Callable[[...], Any]] = None, chunk_size: int = 1024,
           **kwargs: Any) → Optional[bytes]
```

Get the job artifacts.

Parameters

- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*Optional[Callable[[...], Any]]*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **[GitlabAuthenticationError](#)** – If authentication is not correct
- **[GitlabGetError](#)** – If the artifacts could not be retrieved

Returns The artifacts if *streamed* is False, None otherwise.

Return type *Optional*[bytes]

cancel(**kwargs: *Any*) → Dict[str, *Any*]

Cancel the job.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **[GitlabAuthenticationError](#)** – If authentication is not correct
- **[GitlabJobCancelError](#)** – If the job could not be canceled

Return type Dict[str, *Any*]

delete_artifacts(**kwargs: *Any*) → None

Delete artifacts of a job.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **[GitlabAuthenticationError](#)** – If authentication is not correct
- **[GitlabDeleteError](#)** – If the request could not be performed

Return type None

erase(**kwargs: *Any*) → None

Erase the job (remove job artifacts and trace).

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **[GitlabAuthenticationError](#)** – If authentication is not correct
- **[GitlabJobEraseError](#)** – If the job could not be erased

Return type None

keep_artifacts(***kwargs: Any*) → None

Prevent artifacts from being deleted when expiration is set.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabCreateError*](#) – If the request could not be performed

Return type None

manager: [*gitlab.base.RESTManager*](#)

play(***kwargs: Any*) → None

Trigger a job explicitly.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabJobPlayError*](#) – If the job could not be triggered

Return type None

retry(***kwargs: Any*) → Dict[str, Any]

Retry the job.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabJobRetryError*](#) – If the job could not be retried

Return type Dict[str, Any]

trace(*streamed: bool = False, action: Optional[Callable[[...], Any]] = None, chunk_size: int = 1024, **kwargs: Any*) → Dict[str, Any]

Get the job trace.

Parameters

- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*Optional[Callable[[...], Any]]*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)

- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the artifacts could not be retrieved

Returns The trace

Return type *Dict[str, Any]*

```
class gitlab.v4.objects.ProjectJobManager(gl: gitlab.client.Gitlab, parent:
                                         Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager*

Object Creation**Object update****Parameters**

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.jobs.ProjectJob
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.jobs.ProjectJob*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectKey(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                   created_from_list: bool = False)
```

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectKeyManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject]` = `None`)

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

enable(*key_id*: `int`, ***kwargs*: `Any`) → `Union[Dict[str, Any], requests.models.Response]`

Enable a deploy key for a project.

Parameters

- **key_id** (`int`) – The ID of the key to enable
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (`Any`) –

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabProjectDeployKeyError` – If the key could not be enabled

Returns A dict of the result.

Return type `Union[Dict[str, Any], requests.models.Response]`

get(*id*: `Union[str, int]`, *lazy*: `bool` = `False`, ***kwargs*: `Any`) → `gitlab.v4.objects.deploy_keys.ProjectKey`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If `True`, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (`Any`) –

Returns The generated `RESTObject`.

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

Return type `gitlab.v4.objects.deploy_keys.ProjectKey`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectLabel(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: [gitlab.mixins.PromoteMixin](#), [gitlab.mixins.SubscribableMixin](#), [gitlab.mixins.SaveMixin](#), [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.v4.objects.labels.ProjectLabelManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type `None`

manager: [ProjectLabelManager](#)

save(**kwargs: Any) → `None`

Saves the changes made to the object to the server.

The object is updated to match what the server returns.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct.
- [GitlabUpdateError](#) – If the server cannot perform the request.

Return type `None`

```
class gitlab.v4.objects.ProjectLabelManager(gl: gitlab.client.Gitlab, parent:
                                           Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.RetrieveMixin](#), [gitlab.mixins.CreateMixin](#), [gitlab.mixins.UpdateMixin](#), [gitlab.mixins.DeleteMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type `None`

get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → [gitlab.v4.objects.labels.ProjectLabel](#)

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.labels.ProjectLabel*

gitlab: *gitlab.client.Gitlab*

update(*name: Optional[str], new_data: Optional[Dict[str, Any]] = None, **kwargs: Any*) → Dict[str, Any]
Update a Label on the server.

Parameters

- **name** (*Optional[str]*) – The name of the label
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **new_data** (*Optional[Dict[str, Any]]*) –
- **kwargs** (*Any*) –

Return type *Dict[str, Any]*

class *gitlab.v4.objects.ProjectManager*(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object listing filters

- archived
- id_after
- id_before
- last_activity_after
- last_activity_before
- membership
- min_access_level
- order_by
- owned
- repository_checksum_failed
- repository_storage
- search_namespaces
- search
- simple
- sort
- starred
- statistics
- topic
- visibility

- `wiki_checksum_failed`
- `with_custom_attributes`
- `with_issues_enabled`
- `with_merge_requests_enabled`
- `with_programming_language`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`

get (*id*: *Union*[*str*, *int*], *lazy*: *bool* = *False*, ***kwargs*: *Any*) → *gitlab.v4.objects.projects.Project*

Retrieve a single object.

Parameters

- `id` (*Union*[*str*, *int*]) – ID of the object to retrieve
- `lazy` (*bool*) – If *True*, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- `**kwargs` – Extra options to send to the server (e.g. *sudo*)
- `kwargs` (*Any*) –

Returns The generated *RESTObject*.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.projects.Project*

gitlab: *gitlab.client.Gitlab*

```
import_bitbucket_server(bitbucket_server_url: str, bitbucket_server_username: str,  
                        personal_access_token: str, bitbucket_server_project: str,  
                        bitbucket_server_repo: str, new_name: Optional[str] = None,  
                        target_namespace: Optional[str] = None, **kwargs: Any) → Union[Dict[str,  
                        Any], requests.models.Response]
```

Import a project from BitBucket Server to Gitlab (schedule the import)

This method will return when an import operation has been safely queued, or an error has occurred. After triggering an import, check the `import_status` of the newly created project to detect when the import operation has completed.

Note: This request may take longer than most other API requests. So this method will specify a 60 second default timeout if none is specified. A timeout can be specified via `kwargs` to override this functionality.

Parameters

- **bitbucket_server_url** (*str*) – Bitbucket Server URL
- **bitbucket_server_username** (*str*) – Bitbucket Server Username
- **personal_access_token** (*str*) – Bitbucket Server personal access token/password
- **bitbucket_server_project** (*str*) – Bitbucket Project Key
- **bitbucket_server_repo** (*str*) – Bitbucket Repository Name
- **new_name** (*Optional[str]*) – New repository name (Optional)
- **target_namespace** (*Optional[str]*) – Namespace to import repository into. Supports subgroups like /namespace/subgroup (Optional)
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabListError** – If the server failed to perform the request

Returns A representation of the import status.

Return type *Union[Dict[str, Any], requests.models.Response]*

Example:

```
gl = gitlab.Gitlab_from_config()
print("Triggering import")
result = gl.projects.import_bitbucket_server(
    bitbucket_server_url="https://some.server.url",
    bitbucket_server_username="some_bitbucket_user",
    personal_access_token="my_password_or_access_token",
    bitbucket_server_project="my_project",
    bitbucket_server_repo="my_repo",
    new_name="gl_project_name",
    target_namespace="gl_project_path"
)
project = gl.projects.get(ret['id'])
print("Waiting for import to complete")
while project.import_status == u'started':
    time.sleep(1.0)
    project = gl.projects.get(project.id)
print("BitBucket import complete")
```

import_github(*personal_access_token: str, repo_id: int, target_namespace: str, new_name: Optional[str]*
*= None, **kwargs: Any*) → *Union[Dict[str, Any], requests.models.Response]*

Import a project from Github to Gitlab (schedule the import)

This method will return when an import operation has been safely queued, or an error has occurred. After triggering an import, check the `import_status` of the newly created project to detect when the import operation has completed.

Note: This request may take longer than most other API requests. So this method will specify a 60 second default timeout if none is specified. A timeout can be specified via `kwargs` to override this functionality.

Parameters

- **personal_access_token** (*str*) – GitHub personal access token
- **repo_id** (*int*) – Github repository ID
- **target_namespace** (*str*) – Namespace to import repo into
- **new_name** (*Optional[str]*) – New repo name (Optional)
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabListError** – If the server failed to perform the request

Returns A representation of the import status.

Return type *Union[Dict[str, Any], requests.models.Response]*

Example:

```
gl = gitlab.Gitlab_from_config()
print("Triggering import")
result = gl.projects.import_github(ACCESS_TOKEN,
                                   123456,
                                   "my-group/my-subgroup")

project = gl.projects.get(ret['id'])
print("Waiting for import to complete")
while project.import_status == u'started':
    time.sleep(1.0)
    project = gl.projects.get(project.id)
print("Github import complete")
```

import_project (*file: str, path: str, name: Optional[str] = None, namespace: Optional[str] = None, overwrite: bool = False, override_params: Optional[Dict[str, Any]] = None, **kwargs: Any*) → *Union[Dict[str, Any], requests.models.Response]*

Import a project from an archive file.

Parameters

- **file** (*str*) – Data or file object containing the project
- **path** (*str*) – Name and path for the new project
- **namespace** (*Optional[str]*) – The ID or path of the namespace that the project will be imported to
- **overwrite** (*bool*) – If True overwrite an existing project with the same path
- **override_params** (*Optional[Dict[str, Any]]*) – Set the specific settings for the project
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **name** (*Optional[str]*) –
- **kwargs** (*Any*) –

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabListError`** – If the server failed to perform the request

Returns A representation of the import status.

Return type `Union[Dict[str, Any], requests.models.Response]`

```
class gitlab.v4.objects.ProjectMember(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **`manager`** (`gitlab.base.RESTManager`) –
- **`attrs`** (`Dict[str, Any]`) –
- **`created_from_list`** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectMemberAll(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                         created_from_list: bool = False)
```

Bases: `gitlab.base.RESTObject`

Parameters

- **`manager`** (`gitlab.base.RESTManager`) –
- **`attrs`** (`Dict[str, Any]`) –
- **`created_from_list`** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectMemberAllManager(gl: gitlab.client.Gitlab, parent:
                                                Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **`gl`** (`gitlab.client.Gitlab`) –
- **`parent`** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.members.ProjectMemberAll
```

Retrieve a single object.

Parameters

- **`id`** (`Union[str, int]`) – ID of the object to retrieve
- **`lazy`** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- **`**kwargs`** – Extra options to send to the server (e.g. sudo)

- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.members.ProjectMemberAll*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMemberManager(gl: gitlab.client.Gitlab, parent:
                                             Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.members.ProjectMember
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.members.ProjectMember*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMergeRequest(manager: gitlab.base.RESTManager, attrs: Dict[str, Any],
                                             *, created_from_list: bool = False)
```

Bases: *gitlab.mixins.SubscribableMixin, gitlab.mixins.TODOMixin, gitlab.mixins.TimeTrackingMixin, gitlab.mixins.ParticipantsMixin, gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –

- **created_from_list** (*bool*) –

Return type *None*

approval_rules:

gitlab.v4.objects.merge_request_approvals.ProjectMergeRequestApprovalRuleManager

approval_state:

gitlab.v4.objects.merge_request_approvals.ProjectMergeRequestApprovalStateManager

approvals:

gitlab.v4.objects.merge_request_approvals.ProjectMergeRequestApprovalManager

approve(*sha: Optional[str] = None, **kwargs: Any*) → *Dict[str, Any]*

Approve the merge request.

Parameters

- **sha** (*Optional[str]*) – Head SHA of MR
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabMRApprovalError* – If the approval failed

Returns A dict containing the result.

Return type *Dict[str, Any]*

https://docs.gitlab.com/ee/api/merge_request_approvals.html#approve-merge-request

awardemojis: *gitlab.v4.objects.award_emojis.ProjectMergeRequestAwardEmojiManager*

cancel_merge_when_pipeline_succeeds(***kwargs: Any*) →

gitlab.v4.objects.merge_requests.ProjectMergeRequest

Cancel merge when the pipeline succeeds.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabMROnBuildSuccessError* – If the server could not handle the request

Returns *ProjectMergeRequest*

Return type *gitlab.v4.objects.merge_requests.ProjectMergeRequest*

changes(***kwargs: Any*) → *Union[Dict[str, Any], requests.models.Response]*

List the merge request changes.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabListError*** – If the list could not be retrieved

Returns List of changes

Return type *Union[Dict[str, Any], requests.models.Response]*

closes_issues(***kwargs: Any*) → *gitlab.base.RESTObjectList*

List issues that will close on merge.”

Parameters

- **all** – If True, return all the items, without pagination
- **per_page** – Number of items to retrieve per request
- **page** – ID of the page to return (starts with page 1)
- **as_list** – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabListError*** – If the list could not be retrieved

Returns List of issues

Return type *gitlab.base.RESTObjectList*

commits(***kwargs: Any*) → *gitlab.base.RESTObjectList*

List the merge request commits.

Parameters

- **all** – If True, return all the items, without pagination
- **per_page** – Number of items to retrieve per request
- **page** – ID of the page to return (starts with page 1)
- **as_list** – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabListError*** – If the list could not be retrieved

Returns The list of commits

Return type *gitlab.base.RESTObjectList*

diffs: *ProjectMergeRequestDiffManager*

discussions: [`gitlab.v4.objects.discussions.ProjectMergeRequestDiscussionManager`](#)

merge(*merge_commit_message*: *Optional*[*str*] = *None*, *should_remove_source_branch*: *Optional*[*bool*] = *None*, *merge_when_pipeline_succeeds*: *Optional*[*bool*] = *None*, ***kwargs*: *Any*) → *Dict*[*str*, *Any*]

Accept the merge request.

Parameters

- **merge_commit_message** (*Optional*[*str*]) – Commit message
- **should_remove_source_branch** (*Optional*[*bool*]) – If True, removes the source branch
- **merge_when_pipeline_succeeds** (*Optional*[*bool*]) – Wait for the build to succeed, then merge
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabMRClosedError`](#) – If the merge failed

Return type *Dict*[*str*, *Any*]

merge_ref(***kwargs*: *Any*) → *Union*[*Dict*[*str*, *Any*], *requests.models.Response*]

Attempt to merge changes between source and target branches into `refs/merge-requests/:iid/merge`.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (*Any*) –

Raises [`GitlabGetError`](#) – If cannot be merged

Return type *Union*[*Dict*[*str*, *Any*], *requests.models.Response*]

notes: [`gitlab.v4.objects.notes.ProjectMergeRequestNoteManager`](#)

pipelines: [`gitlab.v4.objects.pipelines.ProjectMergeRequestPipelineManager`](#)

rebase(***kwargs*: *Any*) → *Union*[*Dict*[*str*, *Any*], *requests.models.Response*]

Attempt to rebase the source branch onto the target branch

Parameters

- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabMRRebaseError`](#) – If rebasing failed

Return type *Union*[*Dict*[*str*, *Any*], *requests.models.Response*]

resourcelabelevents:

[`gitlab.v4.objects.events.ProjectMergeRequestResourceLabelEventManager`](#)

resourceilestoneevents:

gitlab.v4.objects.events.ProjectMergeRequestResourceMilestoneEventManager

resourcestateevents:

gitlab.v4.objects.events.ProjectMergeRequestResourceStateEventManager

unapprove(***kwargs: Any*) → None

Unapprove the merge request.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabMRApprovalError* – If the unapproval failed

Return type None

https://docs.gitlab.com/ee/api/merge_request_approvals.html#unapprove-merge-request

```
class gitlab.v4.objects.ProjectMergeRequestApproval(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: *gitlab.mixins.SaveMixin*, *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type None

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectMergeRequestApprovalManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.GetWithoutIdMixin*, *gitlab.mixins.UpdateMixin*, *gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

get(*id: Optional[Union[int, str]] = None, **kwargs: Any*) → *Optional[gitlab.v4.objects.merge_request_approvals.ProjectMergeRequestApproval]*

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *Optional[gitlab.v4.objects.merge_request_approvals.ProjectMergeRequestApproval]*

gitlab: *gitlab.client.Gitlab*

set_approvers(*approvals_required: int, approver_ids: Optional[List[int]] = None, approver_group_ids: Optional[List[int]] = None, approval_rule_name: str = 'name', **kwargs: Any*) → *gitlab.base.RESTObject*

Change MR-level allowed approvers and approver groups.

Parameters

- **approvals_required** (*int*) – The number of required approvals for this rule
- **approver_ids** (*Optional[List[int]]*) – User IDs that can approve MRs
- **approver_group_ids** (*Optional[List[int]]*) – Group IDs whose members can approve MRs
- **approval_rule_name** (*str*) –
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabUpdateError** – If the server failed to perform the request

Return type *gitlab.base.RESTObject*

class *gitlab.v4.objects.ProjectMergeRequestApprovalRule*(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

id: *int*

save(***kwargs: Any*) → *None*

Save the changes made to the object to the server.

The object is updated to match what the server returns.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabUpdateError*** – If the server cannot perform the request

Return type None

```
class gitlab.v4.objects.ProjectMergeRequestApprovalRuleManager(gl: gitlab.client.Gitlab, parent:
                                                                Optional[gitlab.base.RESTObject] =
                                                                None)
```

Bases: *gitlab.mixins.ListMixin*, *gitlab.mixins.UpdateMixin*, *gitlab.mixins.CreateMixin*, *gitlab.mixins.DeleteMixin*, *gitlab.base.RESTManager*

Object listing filters

- name
- rule_type

Object Creation**Object update****Parameters**

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

```
create(data: Optional[Dict[str, Any]] = None, **kwargs: Any) → gitlab.base.RESTObject
```

Create a new object.

Parameters

- **data** (*Optional[Dict[str, Any]]*) – Parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the server (e.g. sudo or 'ref_name', 'stage', 'name', 'all')
- **kwargs** (*Any*) –

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabCreateError*** – If the server cannot perform the request

Returns

A new instance of the manage object class build with the data sent by the server

Return type *gitlab.base.RESTObject*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMergeRequestApprovalState(manager: gitlab.base.RESTManager,
                                                         attrs: Dict[str, Any], *, created_from_list:
                                                         bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** ([Dict](#)[[str](#), [Any](#)]) –
- **created_from_list** ([bool](#)) –

Return type [None](#)

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.ProjectMergeRequestApprovalStateManager(gl: gitlab.client.Gitlab, parent:
                                                                Optional[gitlab.base.RESTObject]
                                                                = None)
```

Bases: [gitlab.mixins.GetWithoutIdMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** ([Optional](#)[[gitlab.base.RESTObject](#)]) –

Return type [None](#)

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) →
Optional[gitlab.v4.objects.merge_request_approvals.ProjectMergeRequestApprovalState]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** ([Optional](#)[[Union](#)[[int](#), [str](#)]]) –
- **kwargs** ([Any](#)) –

Returns The generated [RESTObject](#)

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type [Optional](#)[[gitlab.v4.objects.merge_request_approvals.ProjectMergeRequestApprovalState](#)]

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.ProjectMergeRequestAwardEmoji(manager: gitlab.base.RESTManager, attrs:
                                                         Dict[str, Any], *, created_from_list: bool =
                                                         False)
```

Bases: [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectMergeRequestAwardEmojiManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] =
None)
```

Bases: `gitlab.mixins.NoUpdateMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get (`id: Union[str, int]`, `lazy: bool = False`, `**kwargs: Any`) →
`gitlab.v4.objects.award_emojis.ProjectMergeRequestAwardEmoji`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (`Any`) –

Returns The generated `RESTObject`.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.award_emojis.ProjectMergeRequestAwardEmoji`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectMergeRequestDiff(manager: gitlab.base.RESTManager, attrs: Dict[str,
Any], *, created_from_list: bool = False)
```

Bases: `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectMergeRequestDiffManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) →
gitlab.v4.objects.merge_requests.ProjectMergeRequestDiff
```

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.merge_requests.ProjectMergeRequestDiff`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectMergeRequestDiscussion(manager: gitlab.base.RESTManager, attrs:
Dict[str, Any], *, created_from_list: bool =
False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

notes: `gitlab.v4.objects.notes.ProjectMergeRequestDiscussionNoteManager`

```
class gitlab.v4.objects.ProjectMergeRequestDiscussionManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.RetrieveMixin](#), [gitlab.mixins.CreateMixin](#), [gitlab.mixins.UpdateMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[[gitlab.base.RESTObject](#)]*) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.discussions.ProjectMergeRequestDiscussion
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated [RESTObject](#).

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type [gitlab.v4.objects.discussions.ProjectMergeRequestDiscussion](#)

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.ProjectMergeRequestDiscussionNote(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: [gitlab.mixins.SaveMixin](#), [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type `None`

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.ProjectMergeRequestDiscussionNoteManager(gl: gitlab.client.Gitlab, parent:
    Optional[gitlab.base.RESTObject]
    = None)
```

Bases: `gitlab.mixins.GetMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get (*id*: `Union[str, int]`, *lazy*: `bool = False`, ***kwargs*: `Any`) → `gitlab.v4.objects.notes.ProjectMergeRequestDiscussionNote`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated `RESTObject`.

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabGetError`** – If the server cannot perform the request

Return type `gitlab.v4.objects.notes.ProjectMergeRequestDiscussionNote`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectMergeRequestManager(gl: gitlab.client.Gitlab, parent:
    Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

Object listing filters

- state
- order_by
- sort
- milestone
- view
- labels
- created_after
- created_before

- `updated_after`
- `updated_before`
- `scope`
- `iids`
- `author_id`
- `assignee_id`
- `approver_ids`
- `approved_by_ids`
- `my_reaction_emoji`
- `source_branch`
- `target_branch`
- `search`
- `wip`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`

get(*id*: *Union*[*str*, *int*], *lazy*: *bool* = *False*, ***kwargs*: *Any*) →
gitlab.v4.objects.merge_requests.ProjectMergeRequest

Retrieve a single object.

Parameters

- `id` (*Union*[*str*, *int*]) – ID of the object to retrieve
- `lazy` (*bool*) – If `True`, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- `**kwargs` – Extra options to send to the server (e.g. `sudo`)
- `kwargs` (*Any*) –

Returns The generated `RESTObject`.

Raises

- *`GitlabAuthenticationError`* – If authentication is not correct
- *`GitlabGetError`* – If the server cannot perform the request

Return type *gitlab.v4.objects.merge_requests.ProjectMergeRequest*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMergeRequestNote(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

awardemojis:

`gitlab.v4.objects.award_emojis.ProjectMergeRequestNoteAwardEmojiManager`

```
class gitlab.v4.objects.ProjectMergeRequestNoteAwardEmoji(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectMergeRequestNoteAwardEmojiManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.NoUpdateMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get (`id: Union[str, int]`, `lazy: bool = False`, `**kwargs: Any`) → `gitlab.v4.objects.award_emojis.ProjectMergeRequestNoteAwardEmoji`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)

- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.award_emojis.ProjectMergeRequestNoteAwardEmoji*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMergeRequestNoteManager(gl: gitlab.client.Gitlab, parent:
                                                    Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) →
    gitlab.v4.objects.notes.ProjectMergeRequestNote
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.notes.ProjectMergeRequestNote*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMergeRequestPipeline(manager: gitlab.base.RESTManager, attrs:
                                                    Dict[str, Any], *, created_from_list: bool =
                                                    False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –

- `created_from_list` (*bool*) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectMergeRequestPipelineManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] =
None)
```

Bases: `gitlab.mixins.CreateMixin`, `gitlab.mixins.ListMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectMergeRequestResourceLabelEvent(manager:
gitlab.base.RESTManager, attrs:
Dict[str, Any], *, created_from_list:
bool = False)
```

Bases: `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (*Dict* [`str`, `Any`]) –
- `created_from_list` (*bool*) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectMergeRequestResourceLabelEventManager(gl: gitlab.client.Gitlab,
parent: Op-
tional[gitlab.base.RESTObject]
= None)
```

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`

`get` (*id*: *Union* [`str`, `int`], *lazy*: *bool* = *False*, ***kwargs*: *Any*) →
`gitlab.v4.objects.events.ProjectMergeRequestResourceLabelEvent`

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.events.ProjectMergeRequestResourceLabelEvent*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMergeRequestResourceMilestoneEvent(manager:  
                                                                    gitlab.base.RESTManager,  
                                                                    attrs: Dict[str, Any], *,  
                                                                    created_from_list: bool =  
                                                                    False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type None

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectMergeRequestResourceMilestoneEventManager(gl:  
                                                                           gitlab.client.Gitlab,  
                                                                           parent: Op-  
                                                                           tional[gitlab.base.RESTObject]  
                                                                           = None)
```

Bases: *gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager*

Object Creation**Object update****Parameters**

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) →
gitlab.v4.objects.events.ProjectMergeRequestResourceMilestoneEvent

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.events.ProjectMergeRequestResourceMilestoneEvent*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMergeRequestResourceStateEvent(manager:
    gitlab.base.RESTManager, attrs:
    Dict[str, Any], *, created_from_list:
    bool = False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type None

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectMergeRequestResourceStateEventManager(gl: gitlab.client.Gitlab,
    parent: Optional[gitlab.base.RESTObject]
    = None)
```

Bases: *gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) →
gitlab.v4.objects.events.ProjectMergeRequestResourceStateEvent

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve

- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.events.ProjectMergeRequestResourceStateEvent*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMergeTrain(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                          created_from_list: bool = False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectMergeTrainManager(gl: gitlab.client.Gitlab, parent:
                                                  Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.ListMixin, gitlab.base.RESTManager*

Object listing filters

- **scope**

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMilestone(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                          created_from_list: bool = False)
```

Bases: *gitlab.mixins.PromoteMixin, gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –

- **created_from_list** (*bool*) –

Return type `None`

issues(**kwargs: *Any*) → *gitlab.base.RESTObjectList*

List issues related to this milestone.

Parameters

- **all** – If True, return all the items, without pagination
- **per_page** – Number of items to retrieve per request
- **page** – ID of the page to return (starts with page 1)
- **as_list** – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabListError* – If the list could not be retrieved

Returns The list of issues

Return type *gitlab.base.RESTObjectList*

manager: *gitlab.base.RESTManager*

merge_requests(**kwargs: *Any*) → *gitlab.base.RESTObjectList*

List the merge requests related to this milestone.

Parameters

- **all** – If True, return all the items, without pagination
- **per_page** – Number of items to retrieve per request
- **page** – ID of the page to return (starts with page 1)
- **as_list** – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabListError* – If the list could not be retrieved

Returns The list of merge requests

Return type *gitlab.base.RESTObjectList*

class `gitlab.v4.objects.ProjectMilestoneManager`(gl: *gitlab.client.Gitlab*, parent: *Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.CRUDMixin*, *gitlab.base.RESTManager*

Object listing filters

- `iids`
- `state`
- `search`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id*: `Union[str, int]`, *lazy*: `bool = False`, ***kwargs*: `Any`) → `gitlab.v4.objects.milestones.ProjectMilestone`

Retrieve a single object.

Parameters

- `id` (`Union[str, int]`) – ID of the object to retrieve
- `lazy` (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- `**kwargs` – Extra options to send to the server (e.g. `sudo`)
- `kwargs` (`Any`) –

Returns The generated `RESTObject`.

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

Return type `gitlab.v4.objects.milestones.ProjectMilestone`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectNote(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectNoteManager(gl: gitlab.client.Gitlab, parent:
                                           Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`**get** (*id*: *Union*[*str*, *int*], *lazy*: *bool* = *False*, ***kwargs*: *Any*) → *gitlab.v4.objects.notes.ProjectNote*

Retrieve a single object.

Parameters

- **id** (*Union*[*str*, *int*]) – ID of the object to retrieve
- **lazy** (*bool*) – If *True*, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. *sudo*)
- **kwargs** (*Any*) –

Returns The generated `RESTObject`.**Raises**

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabGetError*** – If the server cannot perform the request

Return type *gitlab.v4.objects.notes.ProjectNote***gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectNotificationSettings(manager: gitlab.base.RESTManager, attrs:
Dict[str, Any], *, created_from_list: bool =
False)
```

Bases: *gitlab.v4.objects.notification_settings.NotificationSettings***Parameters**

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (*Dict*[*str*, *Any*]) –
- **created_from_list** (*bool*) –

Return type `None`**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectNotificationSettingsManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] =
None)
```

Bases: *gitlab.v4.objects.notification_settings.NotificationSettingsManager***Object Creation****Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`

get(*id: Optional[Union[int, str]] = None, **kwargs: Any*) →
Optional[*gitlab.v4.objects.notification_settings.ProjectNotificationSettings*]
Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *Optional[gitlab.v4.objects.notification_settings.ProjectNotificationSettings]*

gitlab: *gitlab.client.Gitlab*

class *gitlab.v4.objects.ProjectPackage*(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
created_from_list: bool = False*)

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

package_files: *ProjectPackageFileManager*

class *gitlab.v4.objects.ProjectPackageFile*(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
created_from_list: bool = False*)

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

class *gitlab.v4.objects.ProjectPackageFileManager*(*gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.DeleteMixin, gitlab.mixins.ListMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectPackageManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.ListMixin`, `gitlab.mixins.GetMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object listing filters

- `order_by`
- `sort`
- `package_type`
- `package_name`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`

get (*id*: *Union* [`str`, `int`], *lazy*: *bool* = *False*, ***kwargs*: *Any*) → `gitlab.v4.objects.packages.ProjectPackage`

Retrieve a single object.

Parameters

- **id** (*Union* [`str`, `int`]) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (*Any*) –

Returns The generated `RESTObject`.

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabGetError`** – If the server cannot perform the request

Return type `gitlab.v4.objects.packages.ProjectPackage`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectPagesDomain(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –

- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

class `gitlab.v4.objects.ProjectPagesDomainManager`(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.pages.ProjectPagesDomain*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.pages.ProjectPagesDomain*

gitlab: *gitlab.client.Gitlab*

class `gitlab.v4.objects.ProjectPipeline`(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.mixins.RefreshMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

bridges: *ProjectPipelineBridgeManager*

cancel(**kwargs: Any) → Union[Dict[str, Any], requests.models.Response]

Cancel the job.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabPipelineCancelError** – If the request failed

Return type Union[Dict[str, Any], requests.models.Response]

jobs: [ProjectPipelineJobManager](#)

retry(**kwargs: Any) → Union[Dict[str, Any], requests.models.Response]

Retry the job.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabPipelineRetryError** – If the request failed

Return type Union[Dict[str, Any], requests.models.Response]

test_report: [ProjectPipelineTestReportManager](#)

test_report_summary: [ProjectPipelineTestReportSummaryManager](#)

variables: [ProjectPipelineVariableManager](#)

class gitlab.v4.objects.**ProjectPipelineBridge**(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** (gitlab.base.RESTManager) –
- **attrs** (Dict[str, Any]) –
- **created_from_list** (bool) –

Return type None

manager: [gitlab.base.RESTManager](#)

class gitlab.v4.objects.**ProjectPipelineBridgeManager**(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)

Bases: [gitlab.mixins.ListMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- scope

Object Creation**Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional*[`gitlab.base.RESTObject`]) –

Return type None**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectPipelineJob(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                           created_from_list: bool = False)
```

Bases: `gitlab.base.RESTObject`**Parameters**

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (*bool*) –

Return type None**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectPipelineJobManager(gl: gitlab.client.Gitlab, parent:
                                                  Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.ListMixin`, `gitlab.base.RESTManager`**Object listing filters**

- **scope**
- **include_retried**

Object Creation**Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional*[`gitlab.base.RESTObject`]) –

Return type None**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectPipelineManager(gl: gitlab.client.Gitlab, parent:
                                              Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`**Object listing filters**

- **scope**
- **status**
- **ref**

- sha
- yaml_errors
- name
- username
- order_by
- sort

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type None

create(*data: Optional[Dict[str, Any]] = None, **kwargs: Any*) → *gitlab.v4.objects.pipelines.ProjectPipeline*

Creates a new object.

Parameters

- **data** (`Optional[Dict[str, Any]]`) – Parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabCreateError** – If the server cannot perform the request

Returns

A new instance of the managed object class build with the data sent by the server

Return type *gitlab.v4.objects.pipelines.ProjectPipeline*

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.pipelines.ProjectPipeline*

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct

- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.pipelines.ProjectPipeline*

gitlab: *gitlab.client.Gitlab*

class *gitlab.v4.objects.ProjectPipelineSchedule*(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

play(***kwargs: Any*) → *Dict[str, Any]*

Trigger a new scheduled pipeline, which runs immediately. The next scheduled run of this pipeline is not affected.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabPipelinePlayError** – If the request failed

Return type *Dict[str, Any]*

take_ownership(***kwargs: Any*) → *None*

Update the owner of a pipeline schedule.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabOwnershipError** – If the request failed

Return type *None*

variables: *gitlab.v4.objects.pipelines.ProjectPipelineScheduleVariableManager*

class *gitlab.v4.objects.ProjectPipelineScheduleManager*(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id*: `Union[str, int]`, *lazy*: `bool = False`, ***kwargs*: `Any`) → `gitlab.v4.objects.pipelines.ProjectPipelineSchedule`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated `RESTObject`.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.pipelines.ProjectPipelineSchedule`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectPipelineScheduleVariable(manager: gitlab.base.RESTManager, attrs:
Dict[str, Any], *, created_from_list: bool =
False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectPipelineScheduleVariableManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] =
None)
```

Bases: `gitlab.mixins.CreateMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type None

gitlab: [`gitlab.client.Gitlab`](#)

```
class gitlab.v4.objects.ProjectPipelineTestReport(manager: gitlab.base.RESTManager, attrs:
                                                    Dict[str, Any], *, created_from_list: bool = False)
```

Bases: [`gitlab.base.RESTObject`](#)

Parameters

- **manager** ([`gitlab.base.RESTManager`](#)) –
- **attrs** ([`Dict\[str, Any\]`](#)) –
- **created_from_list** ([`bool`](#)) –

Return type None

manager: [`gitlab.base.RESTManager`](#)

```
class gitlab.v4.objects.ProjectPipelineTestReportManager(gl: gitlab.client.Gitlab, parent:
                                                         Optional[gitlab.base.RESTObject] =
                                                         None)
```

Bases: [`gitlab.mixins.GetWithoutIdMixin`](#), [`gitlab.base.RESTManager`](#)

Object Creation

Object update

Parameters

- **gl** ([`gitlab.client.Gitlab`](#)) –
- **parent** ([`Optional\[gitlab.base.RESTObject\]`](#)) –

Return type None

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) →
Optional[gitlab.v4.objects.pipelines.ProjectPipelineTestReport]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** ([`Optional\[Union\[int, str\]\]`](#)) –
- **kwargs** ([`Any`](#)) –

Returns The generated RESTObject

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the server cannot perform the request

Return type [`Optional\[gitlab.v4.objects.pipelines.ProjectPipelineTestReport\]`](#)

gitlab: [`gitlab.client.Gitlab`](#)

```
class gitlab.v4.objects.ProjectPipelineTestReportSummary(manager: gitlab.base.RESTManager,
                                                         attrs: Dict[str, Any], *, created_from_list:
                                                         bool = False)
```

Bases: [`gitlab.base.RESTObject`](#)

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectPipelineTestReportSummaryManager(gl: gitlab.client.Gitlab, parent:
    Optional[gitlab.base.RESTObject]
    = None)
```

Bases: `gitlab.mixins.GetWithoutIdMixin`, `gitlab.base.RESTManager`**Object Creation****Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

```
get(id: Optional[Union[int, str]] = None, **kwargs: Any) →
    Optional[gitlab.v4.objects.pipelines.ProjectPipelineTestReportSummary]
```

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (`Optional[Union[int, str]]`) –
- **kwargs** (`Any`) –

Returns The generated `RESTObject`**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `Optional[gitlab.v4.objects.pipelines.ProjectPipelineTestReportSummary]`**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectPipelineVariable(manager: gitlab.base.RESTManager, attrs: Dict[str,
    Any], *, created_from_list: bool = False)
```

Bases: `gitlab.base.RESTObject`**Parameters**

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: [`gitlab.base.RESTManager`](#)

class `gitlab.v4.objects.ProjectPipelineVariableManager`(*gl*: [`gitlab.client.Gitlab`](#), *parent*: [`Optional\[gitlab.base.RESTObject\]`](#) = `None`)

Bases: [`gitlab.mixins.ListMixin`](#), [`gitlab.base.RESTManager`](#)

Object Creation

Object update

Parameters

- **gl** ([`gitlab.client.Gitlab`](#)) –
- **parent** ([`Optional\[gitlab.base.RESTObject\]`](#)) –

Return type `None`

gitlab: [`gitlab.client.Gitlab`](#)

class `gitlab.v4.objects.ProjectProtectedBranch`(*manager*: [`gitlab.base.RESTManager`](#), *attrs*: [`Dict\[str, Any\]`](#), *, *created_from_list*: `bool` = `False`)

Bases: [`gitlab.mixins.ObjectDeleteMixin`](#), [`gitlab.base.RESTObject`](#)

Parameters

- **manager** ([`gitlab.base.RESTManager`](#)) –
- **attrs** ([`Dict\[str, Any\]`](#)) –
- **created_from_list** (`bool`) –

Return type `None`

manager: [`gitlab.base.RESTManager`](#)

class `gitlab.v4.objects.ProjectProtectedBranchManager`(*gl*: [`gitlab.client.Gitlab`](#), *parent*: [`Optional\[gitlab.base.RESTObject\]`](#) = `None`)

Bases: [`gitlab.mixins.NoUpdateMixin`](#), [`gitlab.base.RESTManager`](#)

Object Creation

Object update

Parameters

- **gl** ([`gitlab.client.Gitlab`](#)) –
- **parent** ([`Optional\[gitlab.base.RESTObject\]`](#)) –

Return type `None`

get(*id*: [`Union\[str, int\]`](#), *lazy*: `bool` = `False`, ***kwargs*: `Any`) → [`gitlab.v4.objects.branches.ProjectProtectedBranch`](#)

Retrieve a single object.

Parameters

- **id** ([`Union\[str, int\]`](#)) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.branches.ProjectProtectedBranch*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectProtectedTag(manager: gitlab.base.RESTManager, attrs: Dict[str, Any],
*, created_from_list: bool = False)
```

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectProtectedTagManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.NoUpdateMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.tags.ProjectProtectedTag
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.tags.ProjectProtectedTag*

gitlab: [`gitlab.client.Gitlab`](#)

class `gitlab.v4.objects.ProjectPushRules`(*manager*: [`gitlab.base.RESTManager`](#), *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: [`gitlab.mixins.SaveMixin`](#), [`gitlab.mixins.ObjectDeleteMixin`](#), [`gitlab.base.RESTObject`](#)

Parameters

- **manager** ([`gitlab.base.RESTManager`](#)) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: [`gitlab.base.RESTManager`](#)

class `gitlab.v4.objects.ProjectPushRulesManager`(*gl*: [`gitlab.client.Gitlab`](#), *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: [`gitlab.mixins.GetWithoutIdMixin`](#), [`gitlab.mixins.CreateMixin`](#), [`gitlab.mixins.UpdateMixin`](#), [`gitlab.mixins.DeleteMixin`](#), [`gitlab.base.RESTManager`](#)

Object Creation

Object update

Parameters

- **gl** ([`gitlab.client.Gitlab`](#)) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id*: `Optional[Union[int, str]] = None`, ***kwargs*: `Any`) → `Optional[gitlab.v4.objects.push_rules.ProjectPushRules]`

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **id** (`Optional[Union[int, str]]`) –
- **kwargs** (`Any`) –

Returns The generated `RESTObject`

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the server cannot perform the request

Return type `Optional[gitlab.v4.objects.push_rules.ProjectPushRules]`

gitlab: [`gitlab.client.Gitlab`](#)

class `gitlab.v4.objects.ProjectRegistryRepository`(*manager*: [`gitlab.base.RESTManager`](#), *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: [`gitlab.mixins.ObjectDeleteMixin`](#), [`gitlab.base.RESTObject`](#)

Parameters

- **manager** ([`gitlab.base.RESTManager`](#)) –

- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type `None`

tags: `ProjectRegistryTagManager`

```
class gitlab.v4.objects.ProjectRegistryRepositoryManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] =
None)
```

Bases: `gitlab.mixins.DeleteMixin`, `gitlab.mixins.ListMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectRegistryTag(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
created_from_list: bool = False)
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectRegistryTagManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.DeleteMixin`, `gitlab.mixins.RetrieveMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

delete_in_bulk(`name_regex_delete: str`, `**kwargs: Any`) → `None`

Delete Tag in bulk

Parameters

- **name_regex_delete** (`str`) – The regex of the name to delete. To delete all tags specify `.*`.

- **keep_n** – The amount of latest tags of given name to keep.
- **name_regex_keep** – The regex of the name to keep. This value overrides any matches from `name_regex`.
- **older_than** – Tags to delete that are older than the given time, written in human readable form 1h, 1d, 1month.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabDeleteError** – If the server cannot perform the request

Return type None

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) →
gitlab.v4.objects.container_registry.ProjectRegistryTag

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve
- **lazy** (bool) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The generated RESTObject.**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.container_registry.ProjectRegistryTag*

gitlab: *gitlab.client.Gitlab*

class *gitlab.v4.objects.ProjectRelease*(*manager*: *gitlab.base.RESTManager*, *attrs*: Dict[str, Any], *,
created_from_list: bool = False)

Bases: *gitlab.mixins.SaveMixin*, *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (Dict[str, Any]) –
- **created_from_list** (bool) –

Return type None

links: *ProjectReleaseLinkManager*

```
class gitlab.v4.objects.ProjectReleaseLink(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                           created_from_list: bool = False)
```

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.mixins.SaveMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectReleaseLinkManager(gl: gitlab.client.Gitlab, parent:
                                                  Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.releases.ProjectReleaseLink
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.releases.ProjectReleaseLink*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectReleaseManager(gl: gitlab.client.Gitlab, parent:
                                              Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.releases.ProjectRelease*

Retrieve a single object.

Parameters

- `id` (`Union[str, int]`) – ID of the object to retrieve
- `lazy` (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- `**kwargs` – Extra options to send to the server (e.g. `sudo`)
- `kwargs` (`Any`) –

Returns The generated `RESTObject`.

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

Return type *gitlab.v4.objects.releases.ProjectRelease*

gitlab: *gitlab.client.Gitlab*

class `gitlab.v4.objects.ProjectRemoteMirror`(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.mixins.SaveMixin, gitlab.base.RESTObject*

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type `None`

manager: *gitlab.base.RESTManager*

class `gitlab.v4.objects.ProjectRemoteMirrorManager`(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.ListMixin, gitlab.mixins.CreateMixin, gitlab.mixins.UpdateMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectRunner(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** ([Dict\[str, Any\]](#)) –
- **created_from_list** ([bool](#)) –

Return type `None`

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.ProjectRunnerManager(gl: gitlab.client.Gitlab, parent:
                                           Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.CreateMixin](#), [gitlab.mixins.DeleteMixin](#), [gitlab.mixins.ListMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- `scope`
- `tag_list`

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** ([Optional\[gitlab.base.RESTObject\]](#)) –

Return type `None`

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.ProjectService(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                       created_from_list: bool = False)
```

Bases: [gitlab.mixins.SaveMixin](#), [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** ([Dict\[str, Any\]](#)) –
- **created_from_list** ([bool](#)) –

Return type `None`

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.ProjectServiceManager(gl: gitlab.client.Gitlab, parent:
                                              Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.GetMixin](#), [gitlab.mixins.UpdateMixin](#), [gitlab.mixins.DeleteMixin](#), [gitlab.mixins.ListMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional* [`gitlab.base.RESTObject`]) –

Return type `None`**available**(***kwargs: Any*) → `List[str]`

List the services known by python-gitlab.

Returns The list of service code names.**Parameters** **kwargs** (*Any*) –**Return type** `List[str]`**get**(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → `gitlab.v4.objects.services.ProjectService`

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.services.ProjectService`**gitlab:** `gitlab.client.Gitlab`**class** `gitlab.v4.objects.ProjectSnippet`(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)Bases: `gitlab.mixins.UserAgentDetailMixin`, `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`**Parameters**

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type `None`**awardemojis:** `gitlab.v4.objects.award_emojis.ProjectSnippetAwardEmojiManager`**content**(*streamed: bool = False, action: Optional[Callable[[...], Any]] = None, chunk_size: int = 1024, **kwargs: Any*) → `Optional[bytes]`

Return the content of a snippet.

Parameters

- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (*Optional*[*Callable*[[...], *Any*]]) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the content could not be retrieved

Returns The snippet content**Return type** *Optional*[bytes]**discussions:** *gitlab.v4.objects.discussions.ProjectSnippetDiscussionManager***notes:** *gitlab.v4.objects.notes.ProjectSnippetNoteManager*

```
class gitlab.v4.objects.ProjectSnippetAwardEmoji(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject***Parameters**

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict*[*str*, *Any*]) –
- **created_from_list** (*bool*) –

Return type *None***manager:** *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectSnippetAwardEmojiManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.NoUpdateMixin*, *gitlab.base.RESTManager***Object Creation****Object update****Parameters**

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional*[*gitlab.base.RESTObject*]) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.award_emojis.ProjectSnippetAwardEmoji
```

Retrieve a single object.

Parameters

- **id** (*Union*[*str*, *int*]) – ID of the object to retrieve

- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.award_emojis.ProjectSnippetAwardEmoji*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectSnippetDiscussion(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

notes: *gitlab.v4.objects.notes.ProjectSnippetDiscussionNoteManager*

```
class gitlab.v4.objects.ProjectSnippetDiscussionManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.RetrieveMixin, gitlab.mixins.CreateMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.discussions.ProjectSnippetDiscussion
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.discussions.ProjectSnippetDiscussion*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectSnippetDiscussionNote(manager: gitlab.base.RESTManager, attrs:
                                                    Dict[str, Any], *, created_from_list: bool =
                                                    False)
```

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectSnippetDiscussionNoteManager(gl: gitlab.client.Gitlab, parent:
                                                            Optional[gitlab.base.RESTObject] =
                                                            None)
```

Bases: *gitlab.mixins.GetMixin, gitlab.mixins.CreateMixin, gitlab.mixins.UpdateMixin, gitlab.mixins.DeleteMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) →
    gitlab.v4.objects.notes.ProjectSnippetDiscussionNote
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabGetError`** – If the server cannot perform the request

Return type `gitlab.v4.objects.notes.ProjectSnippetDiscussionNote`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectSnippetManager(gl: gitlab.client.Gitlab, parent:
                                             Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **`gl`** (`gitlab.client.Gitlab`) –
- **`parent`** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get (`id: Union[str, int]`, `lazy: bool = False`, `**kwargs: Any`) → `gitlab.v4.objects.snippets.ProjectSnippet`

Retrieve a single object.

Parameters

- **`id`** (`Union[str, int]`) – ID of the object to retrieve
- **`lazy`** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- **`**kwargs`** – Extra options to send to the server (e.g. sudo)
- **`kwargs`** (`Any`) –

Returns The generated RESTObject.

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabGetError`** – If the server cannot perform the request

Return type `gitlab.v4.objects.snippets.ProjectSnippet`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectSnippetNote(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                             created_from_list: bool = False)
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **`manager`** (`gitlab.base.RESTManager`) –
- **`attrs`** (`Dict[str, Any]`) –
- **`created_from_list`** (`bool`) –

Return type `None`

awardemojis: `gitlab.v4.objects.award_emojis.ProjectSnippetNoteAwardEmojiManager`

```
class gitlab.v4.objects.ProjectSnippetNoteAwardEmoji(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False)
```

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectSnippetNoteAwardEmojiManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.NoUpdateMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.award_emojis.ProjectSnippetNoteAwardEmoji
```

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.award_emojis.ProjectSnippetNoteAwardEmoji*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectSnippetNoteManager(gl: gitlab.client.Gitlab, parent:
                                                    Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.notes.ProjectSnippetNote
```

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.notes.ProjectSnippetNote`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectTag(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectTagManager(gl: gitlab.client.Gitlab, parent:
                                           Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.NoUpdateMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id*: `Union[str, int]`, *lazy*: `bool = False`, ***kwargs*: `Any`) → `gitlab.v4.objects.tags.ProjectTag`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.tags.ProjectTag`

gitlab: `gitlab.client.Gitlab`

class `gitlab.v4.objects.ProjectTrigger`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, *, *created_from_list*: `bool = False`)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectTriggerManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) → *gitlab.v4.objects.triggers.ProjectTrigger*

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve
- **lazy** (bool) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.triggers.ProjectTrigger*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectUser(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                     created_from_list: bool = False)
```

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (gitlab.base.RESTManager) –
- **attrs** (Dict[str, Any]) –
- **created_from_list** (bool) –

Return type None

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectUserManager(gl: gitlab.client.Gitlab, parent:
                                           Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.ListMixin*, *gitlab.base.RESTManager*

Object listing filters

- search
- skip_users

Object Creation

Object update

Parameters

- **gl** (gitlab.client.Gitlab) –
- **parent** (Optional[gitlab.base.RESTObject]) –

Return type None

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectVariable(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                         created_from_list: bool = False)
```

Bases: [gitlab.mixins.SaveMixin](#), [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** ([Dict\[str, Any\]](#)) –
- **created_from_list** ([bool](#)) –

Return type [None](#)

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.ProjectVariableManager(gl: gitlab.client.Gitlab, parent:
                                              Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.CRUDMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** ([Optional\[gitlab.base.RESTObject\]](#)) –

Return type [None](#)

get(*id*: [Union\[str, int\]](#), *lazy*: [bool](#) = [False](#), ***kwargs*: [Any](#)) → [gitlab.v4.objects.variables.ProjectVariable](#)
Retrieve a single object.

Parameters

- **id** ([Union\[str, int\]](#)) – ID of the object to retrieve
- **lazy** ([bool](#)) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** ([Any](#)) –

Returns The generated [RESTObject](#).

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Return type [gitlab.v4.objects.variables.ProjectVariable](#)

gitlab: [gitlab.client.Gitlab](#)

```
class gitlab.v4.objects.ProjectWiki(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                      created_from_list: bool = False)
```

Bases: [gitlab.mixins.SaveMixin](#), [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** ([Dict\[str, Any\]](#)) –

- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

class `gitlab.v4.objects.ProjectWikiManager`(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object listing filters

- **with_content**

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.wikis.ProjectWiki*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.wikis.ProjectWiki*

gitlab: *gitlab.client.Gitlab*

class `gitlab.v4.objects.RepositoryMixin`

Bases: *object*

delete_merged_branches(***kwargs: Any*) → *None*

Delete merged branches.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct

- [`GitlabDeleteError`](#) – If the server failed to perform the request

Return type None

repository_archive(*sha: str = None, streamed: bool = False, action: Optional[Callable[[...], Any]] = None, chunk_size: int = 1024, format: Optional[str] = None, **kwargs: Any*) → Optional[bytes]

Return an archive of the repository.

Parameters

- **sha** (*str*) – ID of the commit (default branch by default)
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*Optional[Callable[[...], Any]]*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- **format** (*Optional[str]*) – file format (tar.gz by default)
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabListError`](#) – If the server failed to perform the request

Returns The binary data of the archive

Return type *Optional[bytes]*

repository_blob(*sha: str, **kwargs: Any*) → Union[Dict[str, Any], requests.models.Response]

Return a file by blob SHA.

Parameters

- **sha** (*str*) – ID of the blob
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the server failed to perform the request

Returns The blob content and metadata

Return type *Union[Dict[str, Any], requests.models.Response]*

repository_compare(*from_: str, to: str, **kwargs: Any*) → Union[Dict[str, Any], requests.models.Response]

Return a diff between two branches/commits.

Parameters

- **from** – Source branch/SHA
- **to** (*str*) – Destination branch/SHA

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **from_** (*str*) –
- **kwargs** (*Any*) –

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabGetError*** – If the server failed to perform the request

Returns The diff

Return type *Union[Dict[str, Any], requests.models.Response]*

repository_contributors (***kwargs: Any*) → *Union[gitlab.client.GitlabList, List[Dict[str, Any]]]*

Return a list of contributors for the project.

Parameters

- **all** – If True, return all the items, without pagination
- **per_page** – Number of items to retrieve per request
- **page** – ID of the page to return (starts with page 1)
- **as_list** – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabGetError*** – If the server failed to perform the request

Returns The contributors

Return type *Union[gitlab.client.GitlabList, List[Dict[str, Any]]]*

repository_raw_blob (*sha: str, streamed: bool = False, action: Optional[Callable[[...], Any]] = None, chunk_size: int = 1024, **kwargs: Any*) → *Optional[bytes]*

Return the raw file contents for a blob.

Parameters

- **sha** (*str*) – ID of the blob
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*Optional[Callable[[...], Any]]*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabGetError*** – If the server failed to perform the request

Returns The blob content if streamed is False, None otherwise

Return type *Optional*[bytes]

repository_tree(*path*: str = "", *ref*: str = "", *recursive*: bool = False, ***kwargs*: Any) → Union[*gitlab.client.GitlabList*, List[Dict[str, Any]]]

Return a list of files in the repository.

Parameters

- **path** (*str*) – Path of the top folder (/ by default)
- **ref** (*str*) – Reference to a commit or branch
- **recursive** (*bool*) – Whether to get the tree recursively
- **all** – If True, return all the items, without pagination
- **per_page** – Number of items to retrieve per request
- **page** – ID of the page to return (starts with page 1)
- **as_list** – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server failed to perform the request

Returns The representation of the tree

Return type Union[*gitlab.client.GitlabList*, List[Dict[str, Any]]]

update_submodule(*submodule*: str, *branch*: str, *commit_sha*: str, ***kwargs*: Any) → Union[Dict[str, Any], requests.models.Response]

Update a project submodule

Parameters

- **submodule** (*str*) – Full path to the submodule
- **branch** (*str*) – Name of the branch to commit into
- **commit_sha** (*str*) – Full commit SHA to update the submodule to
- **commit_message** – Commit message. If no message is provided, a default one will be set (optional)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabPutError* – If the submodule could not be updated

Return type Union[Dict[str, Any], requests.models.Response]

class gitlab.v4.objects.**Runner**(*manager*: gitlab.base.RESTManager, *attrs*: Dict[str, Any], *, *created_from_list*: bool = False)

Bases: *gitlab.mixins.SaveMixin*, *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject*

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`**jobs:** `gitlab.v4.objects.runners.RunnerJobManager`

```
class gitlab.v4.objects.RunnerJob(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                   created_from_list: bool = False)
```

Bases: `gitlab.base.RESTObject`**Parameters**

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.RunnerJobManager(gl: gitlab.client.Gitlab, parent:
                                          Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.ListMixin, gitlab.base.RESTManager`**Object listing filters**

- **status**

Object Creation**Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.RunnerManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject]
                                       = None)
```

Bases: `gitlab.mixins.CRUDMixin, gitlab.base.RESTManager`**Object listing filters**

- **scope**
- **tag_list**

Object Creation**Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –

- **parent** (*Optional*[*gitlab.base.RESTObject*]) –

Return type None

all(*scope: Optional[str] = None, **kwargs: Any*) → *List*[*gitlab.v4.objects.runners.Runner*]

List all the runners.

Parameters

- **scope** (*Optional*[*str*]) – The scope of runners to show, one of: specific, shared, active, paused, online
- **all** – If True, return all the items, without pagination
- **per_page** – Number of items to retrieve per request
- **page** – ID of the page to return (starts with page 1)
- **as_list** – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabListError* – If the server failed to perform the request

Returns A list of runners matching the scope.

Return type *List*[*gitlab.v4.objects.runners.Runner*]

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.runners.Runner*

Retrieve a single object.

Parameters

- **id** (*Union*[*str*, *int*]) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

Return type *gitlab.v4.objects.runners.Runner*

gitlab: *gitlab.client.Gitlab*

verify(*token: str, **kwargs: Any*) → None

Validates authentication credentials for a registered Runner.

Parameters

- **token** (*str*) – The runner's authentication token

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabVerifyError*** – If the server failed to verify the token

Return type None

class gitlab.v4.objects.**SidekiqManager**(*gl*: [gitlab.client.Gitlab](#), *parent*: *Optional*[[gitlab.base.RESTObject](#)] = None)

Bases: [gitlab.base.RESTManager](#)

Manager for the Sidekiq methods.

This manager doesn't actually manage objects but provides helper function for the sidekiq metrics API.

Object Creation**Object update****Parameters**

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional*[[gitlab.base.RESTObject](#)]) –

Return type None

compound_metrics(***kwargs*: *Any*) → Union[Dict[str, Any], requests.models.Response]

Return all available metrics and statistics.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabGetError*** – If the information couldn't be retrieved

Returns All available Sidekiq metrics and statistics**Return type** Union[Dict[str, Any], requests.models.Response]

gitlab: [gitlab.client.Gitlab](#)

job_stats(***kwargs*: *Any*) → Union[Dict[str, Any], requests.models.Response]

Return statistics about the jobs performed.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabGetError*** – If the information couldn't be retrieved

Returns Statistics about the Sidekiq jobs performed

Return type `Union[Dict[str, Any], requests.models.Response]`

process_metrics(***kwargs: Any*) → `Union[Dict[str, Any], requests.models.Response]`

Return the registered sidekiq workers.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the information couldn't be retrieved

Returns Information about the register Sidekiq worker

Return type `Union[Dict[str, Any], requests.models.Response]`

queue_metrics(***kwargs: Any*) → `Union[Dict[str, Any], requests.models.Response]`

Return the registered queues information.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the information couldn't be retrieved

Returns Information about the Sidekiq queues

Return type `Union[Dict[str, Any], requests.models.Response]`

class `gitlab.v4.objects.Snippet`(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: `gitlab.mixins.UserAgentDetailMixin`, `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

content(*streamed: bool = False, action: Optional[Callable[[...], Any]] = None, chunk_size: int = 1024, **kwargs: Any*) → `Optional[bytes]`

Return the content of a snippet.

Parameters

- **streamed** (`bool`) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (`Optional[Callable[[...], Any]]`) – Callable responsible of dealing with chunk of data

- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the content could not be retrieved

Returns The snippet content

Return type *Optional*[bytes]

manager: *gitlab.base.RESTManager*

class gitlab.v4.objects.SnippetManager(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation**Object update****Parameters**

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.snippets.Snippet*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.snippets.Snippet*

gitlab: *gitlab.client.Gitlab*

public(***kwargs: Any*) → *Union[gitlab.base.RESTObjectList, List[gitlab.base.RESTObject]]*

List all the public snippets.

Parameters

- **all** – If True the returned object will be a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)

- **kwargs** (*Any*) –

Raises `GitlabListError` – If the list could not be retrieved

Returns A generator for the snippets list

Return type `Union[gitlab.base.RESTObjectList, List[gitlab.base.RESTObject]]`

```
class gitlab.v4.objects.StarredProject(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                       created_from_list: bool = False)
```

Bases: `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.StarredProjectManager(gl: gitlab.client.Gitlab, parent:
                                             Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.ListMixin, gitlab.base.RESTManager`

Object listing filters

- archived
- membership
- min_access_level
- order_by
- owned
- search
- simple
- sort
- starred
- statistics
- visibility
- with_custom_attributes
- with_issues_enabled
- with_merge_requests_enabled

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

gitlab: [gitlab.client.Gitlab](#)

class gitlab.v4.objects.**Todo**(manager: [gitlab.base.RESTManager](#), attrs: *Dict[str, Any]*, *,
created_from_list: *bool = False*)

Bases: [gitlab.mixins.ObjectDeleteMixin](#), [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: [gitlab.base.RESTManager](#)

mark_as_done(**kwargs: *Any*) → *Dict[str, Any]*

Mark the todo as done.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabTodoError](#) – If the server failed to perform the request

Returns A dict with the result

Return type *Dict[str, Any]*

class gitlab.v4.objects.**TodoManager**(gl: [gitlab.client.Gitlab](#), parent: *Optional[gitlab.base.RESTObject] = None*)

Bases: [gitlab.mixins.ListMixin](#), [gitlab.mixins.DeleteMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- **action**
- **author_id**
- **project_id**
- **state**
- **type**

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

gitlab: [gitlab.client.Gitlab](#)

mark_all_as_done(***kwargs: Any*) → None

Mark all the todos as done.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabTodoError** – If the server failed to perform the request

Returns The number of todos marked done

Return type None

class gitlab.v4.objects.**Topic**(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type None

manager: *gitlab.base.RESTManager*

class gitlab.v4.objects.**TopicManager**(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.topics.Topic*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabGetError`** – If the server cannot perform the request

Return type `gitlab.v4.objects.topics.Topic`

gitlab: `gitlab.client.Gitlab`

class `gitlab.v4.objects.User`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, *,
created_from_list: `bool = False`)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **`manager`** (`gitlab.base.RESTManager`) –
- **`attrs`** (`Dict[str, Any]`) –
- **`created_from_list`** (`bool`) –

Return type `None`

activate(***kwargs*: `Any`) → `Union[Dict[str, Any], requests.models.Response]`

Activate the user.

Parameters

- **`**kwargs`** – Extra options to send to the server (e.g. `sudo`)
- **`kwargs`** (`Any`) –

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabActivateError`** – If the user could not be activated

Returns Whether the user status has been changed

Return type `Union[Dict[str, Any], requests.models.Response]`

block(***kwargs*: `Any`) → `Union[Dict[str, Any], requests.models.Response]`

Block the user.

Parameters

- **`**kwargs`** – Extra options to send to the server (e.g. `sudo`)
- **`kwargs`** (`Any`) –

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabBlockError`** – If the user could not be blocked

Returns Whether the user status has been changed

Return type `Union[Dict[str, Any], requests.models.Response]`

customattributes: `gitlab.v4.objects.custom_attributes.UserCustomAttributeManager`

deactivate(***kwargs*: `Any`) → `Union[Dict[str, Any], requests.models.Response]`

Deactivate the user.

Parameters

- **`**kwargs`** – Extra options to send to the server (e.g. `sudo`)

- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabDeactivateError** – If the user could not be deactivated

Returns Whether the user status has been changed

Return type `Union[Dict[str, Any], requests.models.Response]`

emails: `UserEmailManager`

events: `gitlab.v4.objects.events.UserEventManager`

follow(***kwargs: Any*) → `Union[Dict[str, Any], requests.models.Response]`

Follow the user.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabFollowError** – If the user could not be followed

Returns The new object data (*not* a RESTObject)

Return type `Union[Dict[str, Any], requests.models.Response]`

followers_users: `UserFollowersManager`

following_users: `UserFollowingManager`

gpgkeys: `UserGPGKeyManager`

identityproviders: `UserIdentityProviderManager`

impersonationtokens: `UserImpersonationTokenManager`

keys: `UserKeyManager`

memberships: `UserMembershipManager`

personal_access_tokens:
`gitlab.v4.objects.personal_access_tokens.UserPersonalAccessTokenManager`

projects: `UserProjectManager`

starred_projects: `StarredProjectManager`

status: `UserStatusManager`

unblock(***kwargs: Any*) → `Union[Dict[str, Any], requests.models.Response]`

Unblock the user.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabUnblockError`** – If the user could not be unblocked

Returns Whether the user status has been changed

Return type `Union[Dict[str, Any], requests.models.Response]`

unfollow(***kwargs: Any*) → `Union[Dict[str, Any], requests.models.Response]`

Unfollow the user.

Parameters

- **`**kwargs`** – Extra options to send to the server (e.g. `sudo`)
- **`kwargs`** (*Any*) –

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabUnfollowError`** – If the user could not be followed

Returns The new object data (*not* a `RESTObject`)

Return type `Union[Dict[str, Any], requests.models.Response]`

```
class gitlab.v4.objects.UserActivities(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                       created_from_list: bool = False)
```

Bases: `gitlab.base.RESTObject`

Parameters

- **`manager`** (`gitlab.base.RESTManager`) –
- **`attrs`** (`Dict[str, Any]`) –
- **`created_from_list`** (*bool*) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.UserActivitiesManager(gl: gitlab.client.Gitlab, parent:
                                              Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.ListMixin`, `gitlab.base.RESTManager`

Object Creation**Object update****Parameters**

- **`gl`** (`gitlab.client.Gitlab`) –
- **`parent`** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.UserCustomAttribute(manager: gitlab.base.RESTManager, attrs: Dict[str, Any],
*, created_from_list: bool = False)
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.UserCustomAttributeManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.SetMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) →
gitlab.v4.objects.custom_attributes.UserCustomAttribute
```

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated `RESTObject`.

Raises

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabGetError`** – If the server cannot perform the request

Return type `gitlab.v4.objects.custom_attributes.UserCustomAttribute`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.UserEmail(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
created_from_list: bool = False)
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

class `gitlab.v4.objects.UserEmailManager`(*gl*: `gitlab.client.Gitlab`, *parent*: `Optional[gitlab.base.RESTObject] = None`)

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id*: `Union[str, int]`, *lazy*: `bool = False`, ***kwargs*: `Any`) → `gitlab.v4.objects.users.UserEmail`

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type `gitlab.v4.objects.users.UserEmail`

gitlab: `gitlab.client.Gitlab`

class `gitlab.v4.objects.UserEvent`(*manager*: `gitlab.base.RESTManager`, *attrs*: `Dict[str, Any]`, ***, *created_from_list*: `bool = False`)

Bases: `gitlab.v4.objects.events.Event`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.UserEventManager(gl: gitlab.client.Gitlab, parent:
                                         Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.v4.objects.events.EventManager`

Object listing filters

- action
- target_type
- before
- after
- sort

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type None

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.UserGPGKey(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                   created_from_list: bool = False)
```

Bases: `gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject`

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type None

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.UserGPGKeyManager(gl: gitlab.client.Gitlab, parent:
                                           Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.RetrieveMixin, gitlab.mixins.CreateMixin, gitlab.mixins.DeleteMixin, gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type None

get(*id*: Union[str, int], *lazy*: bool = False, ***kwargs*: Any) → *gitlab.v4.objects.users.UserGPGKey*

Retrieve a single object.

Parameters

- **id** (Union[str, int]) – ID of the object to retrieve
- **lazy** (bool) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.users.UserGPGKey*

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.UserIdentityProviderManager(gl: gitlab.client.Gitlab, parent:
                                                    Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.DeleteMixin, gitlab.base.RESTManager*

Manager for user identities.

This manager does not actually manage objects but enables functionality for deletion of user identities by provider.

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.UserImpersonationToken(manager: gitlab.base.RESTManager, attrs: Dict[str,
                                                                                               Any], *, created_from_list: bool = False)
```

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (bool) –

Return type None

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.UserImpersonationTokenManager(gl: gitlab.client.Gitlab, parent:
Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.NoUpdateMixin`, `gitlab.base.RESTManager`

Object listing filters

- `state`

Object Creation

Object update

Parameters

- `gl` (`gitlab.client.Gitlab`) –
- `parent` (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) →
gitlab.v4.objects.users.UserImpersonationToken
```

Retrieve a single object.

Parameters

- `id` (`Union[str, int]`) – ID of the object to retrieve
- `lazy` (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- `**kwargs` – Extra options to send to the server (e.g. sudo)
- `kwargs` (`Any`) –

Returns The generated RESTObject.

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

Return type `gitlab.v4.objects.users.UserImpersonationToken`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.UserKey(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
created_from_list: bool = False)
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

Parameters

- `manager` (`gitlab.base.RESTManager`) –
- `attrs` (`Dict[str, Any]`) –
- `created_from_list` (`bool`) –

Return type `None`

manager: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.UserKeyManager(gl: gitlab.client.Gitlab, parent:
    Optional[gitlab.base.RESTObject] = None)
```

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

```
get(id: Union[str, int], lazy: bool = False, **kwargs: Any) → gitlab.v4.objects.users.UserKey
```

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

Return type `gitlab.v4.objects.users.UserKey`

gitlab: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.UserManager(gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] =
    None)
```

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

Object listing filters

- active
- blocked
- username
- extern_uid
- provider
- external
- search
- custom_attributes
- status
- two_factor

Object Creation**Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (*Optional* [`gitlab.base.RESTObject`]) –

Return type None**get** (*id*: *Union*[*str*, *int*], *lazy*: *bool* = *False*, ***kwargs*: *Any*) → *gitlab.v4.objects.users.User*

Retrieve a single object.

Parameters

- **id** (*Union*[*str*, *int*]) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.users.User***gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.UserMembership(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                       created_from_list: bool = False)
```

Bases: *gitlab.base.RESTObject***Parameters**

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict*[*str*, *Any*]) –
- **created_from_list** (*bool*) –

Return type None**manager:** *gitlab.base.RESTManager*

```
class gitlab.v4.objects.UserMembershipManager(gl: gitlab.client.Gitlab, parent:
                                             Optional[gitlab.base.RESTObject] = None)
```

Bases: *gitlab.mixins.RetrieveMixin*, *gitlab.base.RESTManager***Object listing filters**

- type

Object Creation**Object update****Parameters**

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.v4.objects.users.UserMembership*

Retrieve a single object.

Parameters

- **id** (`Union[str, int]`) – ID of the object to retrieve
- **lazy** (`bool`) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (`Any`) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.users.UserMembership*

gitlab: *gitlab.client.Gitlab*

class `gitlab.v4.objects.UserPersonalAccessToken`(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: *gitlab.base.RESTObject*

Parameters

- **manager** (`gitlab.base.RESTManager`) –
- **attrs** (`Dict[str, Any]`) –
- **created_from_list** (`bool`) –

Return type `None`

manager: *gitlab.base.RESTManager*

class `gitlab.v4.objects.UserPersonalAccessTokenManager`(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: *gitlab.mixins.CreateMixin, gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (`gitlab.client.Gitlab`) –
- **parent** (`Optional[gitlab.base.RESTObject]`) –

Return type `None`

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.UserProject(manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *,
                                   created_from_list: bool = False)
```

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: [gitlab.base.RESTManager](#)

```
class gitlab.v4.objects.UserProjectManager(gl: gitlab.client.Gitlab, parent:
                                           Optional[gitlab.base.RESTObject] = None)
```

Bases: [gitlab.mixins.ListMixin](#), [gitlab.mixins.CreateMixin](#), [gitlab.base.RESTManager](#)

Object listing filters

- archived
- visibility
- order_by
- sort
- search
- simple
- owned
- membership
- starred
- statistics
- with_issues_enabled
- with_merge_requests_enabled
- with_custom_attributes
- with_programming_language
- wiki_checksum_failed
- repository_checksum_failed
- min_access_level
- id_after
- id_before

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

gitlab: [gitlab.client.Gitlab](#)

list(***kwargs: Any*) → Union[[gitlab.base.RESTObjectList](#), List[[gitlab.base.RESTObject](#)]]

Retrieve a list of objects.

Parameters

- **all** – If True, return all the items, without pagination
- **per_page** – Number of items to retrieve per request
- **page** – ID of the page to return (starts with page 1)
- **as_list** – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The list of objects, or a generator if *as_list* is False

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabListError](#) – If the server cannot perform the request

Return type Union[[gitlab.base.RESTObjectList](#), List[[gitlab.base.RESTObject](#)]]

class gitlab.v4.objects.**UserStatus**(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: [gitlab.base.RESTObject](#)

Parameters

- **manager** ([gitlab.base.RESTManager](#)) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type None

manager: [gitlab.base.RESTManager](#)

class gitlab.v4.objects.**UserStatusManager**(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: [gitlab.mixins.GetWithoutIdMixin](#), [gitlab.base.RESTManager](#)

Object Creation

Object update

Parameters

- **gl** ([gitlab.client.Gitlab](#)) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type None

get(*id*: *Optional[Union[int, str]] = None*, ***kwargs*: *Any*) → *Optional[gitlab.v4.objects.users.UserStatus]*

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *Optional[gitlab.v4.objects.users.UserStatus]*

gitlab: *gitlab.client.Gitlab*

class *gitlab.v4.objects.Variable*(*manager*: *gitlab.base.RESTManager*, *attrs*: *Dict[str, Any]*, *,
created_from_list: *bool = False*)

Bases: *gitlab.mixins.SaveMixin*, *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject*

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type *None*

manager: *gitlab.base.RESTManager*

class *gitlab.v4.objects.VariableManager*(*gl*: *gitlab.client.Gitlab*, *parent*:
Optional[gitlab.base.RESTObject] = None)

Bases: *gitlab.mixins.CRUDMixin*, *gitlab.base.RESTManager*

Object Creation

Object update

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type *None*

get(*id*: *Union[str, int]*, *lazy*: *bool = False*, ***kwargs*: *Any*) → *gitlab.v4.objects.variables.Variable*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)

- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the server cannot perform the request

Return type *gitlab.v4.objects.variables.Variable*

gitlab: *gitlab.client.Gitlab*

Module contents

6.5.3 Submodules

6.5.4 gitlab.base module

class `gitlab.base.RESTManager`(*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)

Bases: `object`

Base class for CRUD operations on objects.

Derived class must define `_path` and `_obj_cls`.

`_path`: Base URL path on which requests will be sent (e.g. `‘/projects’`) `_obj_cls`: The class of objects that will be created

Parameters

- **gl** (*gitlab.client.Gitlab*) –
- **parent** (*Optional[gitlab.base.RESTObject]*) –

Return type `None`

gitlab: *gitlab.client.Gitlab*

property `parent_attrs`: `Optional[Dict[str, Any]]`

property `path`: `Optional[str]`

class `gitlab.base.RESTObject`(*manager: gitlab.base.RESTManager, attrs: Dict[str, Any], *, created_from_list: bool = False*)

Bases: `object`

Represents an object built from server data.

It holds the attributes know from the server, and the updated attributes in another. This allows smart updates, if the object allows it.

You can redefine `_id_attr` in child classes to specify which attribute must be used as uniq ID. `None` means that the object can be updated without ID in the url.

Parameters

- **manager** (*gitlab.base.RESTManager*) –
- **attrs** (*Dict[str, Any]*) –
- **created_from_list** (*bool*) –

Return type None

property attributes: Dict[str, Any]

property encoded_id: Optional[Union[int, str]]

Ensure that the ID is url-encoded so that it can be safely used in a URL path

get_id() → Optional[Union[int, str]]

Returns the id of the resource.

Return type Optional[Union[int, str]]

manager: *gitlab.base.RESTManager*

pformat() → str

Return type str

pprint() → None

Return type None

class gitlab.base.RESTObjectList(*manager: gitlab.base.RESTManager, obj_cls: Type[gitlab.base.RESTObject], _list: gitlab.client.GitlabList*)

Bases: object

Generator object representing a list of RESTObject's.

This generator uses the Gitlab pagination system to fetch new data when required.

Note: you should not instantiate such objects, they are returned by calls to RESTManager.list()

Parameters

- **manager** (*RESTManager*) – Manager to attach to the created objects
- **obj_cls** (*Type[gitlab.base.RESTObject]*) – Type of objects to create from the json data
- **_list** (*gitlab.client.GitlabList*) – A GitlabList object

Return type None

property current_page: int

The current page number.

next() → *gitlab.base.RESTObject*

Return type *gitlab.base.RESTObject*

property next_page: Optional[int]

The next page number.

If None, the current page is the last.

property per_page: Optional[int]

The number of items per page.

property prev_page: Optional[int]

The previous page number.

If None, the current page is the first.

property total: `Optional[int]`

The total number of items.

property total_pages: `Optional[int]`

The total number of pages.

class `gitlab.base.RequiredOptional`(*required: Tuple[str, ...] = (), optional: Tuple[str, ...] = ()*)

Bases: `object`

Parameters

- **required** (*Tuple[str, ...]*) –
- **optional** (*Tuple[str, ...]*) –

Return type `None`

optional: `Tuple[str, ...] = ()`

required: `Tuple[str, ...] = ()`

6.5.5 gitlab.cli module

`gitlab.cli.cls_to_what`(*cls: gitlab.base.RESTObject*) → `str`

Parameters **cls** (*gitlab.base.RESTObject*) –

Return type `str`

`gitlab.cli.die`(*msg: str, e: Optional[Exception] = None*) → `None`

Parameters

- **msg** (*str*) –
- **e** (*Optional[Exception]*) –

Return type `None`

`gitlab.cli.docs`() → `argparse.ArgumentParser`

Provide a statically generated parser for sphinx only, so we don't need to provide dummy gitlab config for readthedocs.

Return type `argparse.ArgumentParser`

`gitlab.cli.main`() → `None`

Return type `None`

`gitlab.cli.register_custom_action`(*cls_names: Union[str, Tuple[str, ...]], mandatory: Tuple[str, ...] = (), optional: Tuple[str, ...] = (), custom_action: Optional[str] = None*) → `Callable[[gitlab.cli.__F], gitlab.cli.__F]`

Parameters

- **cls_names** (*Union[str, Tuple[str, ...]]*) –
- **mandatory** (*Tuple[str, ...]*) –
- **optional** (*Tuple[str, ...]*) –
- **custom_action** (*Optional[str]*) –

Return type `Callable[[gitlab.cli.__F], gitlab.cli.__F]`

`gitlab.cli.what_to_cls(what: str, namespace: module) → Type[gitlab.base.RESTObject]`

Parameters

- **what** (*str*) –
- **namespace** (*module*) –

Return type *Type[gitlab.base.RESTObject]*

6.5.6 gitlab.config module

exception `gitlab.config.ConfigError`

Bases: `Exception`

exception `gitlab.config.GitlabConfigHelperError`

Bases: `gitlab.config.ConfigError`

exception `gitlab.config.GitlabConfigMissingError`

Bases: `gitlab.config.ConfigError`

class `gitlab.config.GitlabConfigParser(gitlab_id: Optional[str] = None, config_files: Optional[List[str]] = None)`

Bases: `object`

Parameters

- **gitlab_id** (*Optional[str]*) –
- **config_files** (*Optional[List[str]]*) –

Return type `None`

exception `gitlab.config.GitlabDataError`

Bases: `gitlab.config.ConfigError`

exception `gitlab.config.GitlabIDError`

Bases: `gitlab.config.ConfigError`

6.5.7 gitlab.const module

6.5.8 gitlab.exceptions module

exception `gitlab.exceptions.GitlabActivateError(error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)`

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type `None`

```
exception gitlab.exceptions.GitlabAttachFileError(error_message: Union[str, bytes] = "",  
                                                response_code: Optional[int] = None,  
                                                response_body: Optional[bytes] = None)
```

Bases: [gitlab.exceptions.GitlabOperationError](#)

Parameters

- **error_message** (Union[str, bytes]) –
- **response_code** (Optional[int]) –
- **response_body** (Optional[bytes]) –

Return type None

```
exception gitlab.exceptions.GitlabAuthenticationError(error_message: Union[str, bytes] = "",  
                                                      response_code: Optional[int] = None,  
                                                      response_body: Optional[bytes] = None)
```

Bases: [gitlab.exceptions.GitlabError](#)

Parameters

- **error_message** (Union[str, bytes]) –
- **response_code** (Optional[int]) –
- **response_body** (Optional[bytes]) –

Return type None

```
exception gitlab.exceptions.GitlabBlockError(error_message: Union[str, bytes] = "", response_code:  
                                             Optional[int] = None, response_body: Optional[bytes] =  
                                             None)
```

Bases: [gitlab.exceptions.GitlabOperationError](#)

Parameters

- **error_message** (Union[str, bytes]) –
- **response_code** (Optional[int]) –
- **response_body** (Optional[bytes]) –

Return type None

```
exception gitlab.exceptions.GitlabBuildCancelError(error_message: Union[str, bytes] = "",  
                                                    response_code: Optional[int] = None,  
                                                    response_body: Optional[bytes] = None)
```

Bases: [gitlab.exceptions.GitlabCancelError](#)

Parameters

- **error_message** (Union[str, bytes]) –
- **response_code** (Optional[int]) –
- **response_body** (Optional[bytes]) –

Return type None

```
exception gitlab.exceptions.GitlabBuildEraseError(error_message: Union[str, bytes] = "",  
                                                  response_code: Optional[int] = None,  
                                                  response_body: Optional[bytes] = None)
```

Bases: [gitlab.exceptions.GitlabRetryError](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception gitlab.exceptions.GitlabBuildPlayError(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [gitlab.exceptions.GitlabRetryError](#)**Parameters**

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception gitlab.exceptions.GitlabBuildRetryError(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [gitlab.exceptions.GitlabRetryError](#)**Parameters**

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception gitlab.exceptions.GitlabCancelError(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [gitlab.exceptions.GitlabOperationError](#)**Parameters**

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception gitlab.exceptions.GitlabCherryPickError(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [gitlab.exceptions.GitlabOperationError](#)**Parameters**

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –

- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabConnectionError`(*error_message: Union[str, bytes] = "*
response_code: Optional[int] = None,
response_body: Optional[bytes] = None)

Bases: `gitlab.exceptions.GitlabError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabCreateError`(*error_message: Union[str, bytes] = "*
Optional[int] = None, response_body: Optional[bytes]
= None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabDeactivateError`(*error_message: Union[str, bytes] = "*
response_code: Optional[int] = None,
response_body: Optional[bytes] = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabDeleteError`(*error_message: Union[str, bytes] = "*
Optional[int] = None, response_body: Optional[bytes]
= None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `Exception`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type `None`

exception `gitlab.exceptions.GitlabFollowError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type `None`

exception `gitlab.exceptions.GitlabGetError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type `None`

exception `gitlab.exceptions.GitlabGroupTransferError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type `None`

exception `gitlab.exceptions.GitlabHousekeepingError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabHttpError`(*error_message: Union[str, bytes] = "*, *response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [`gitlab.exceptions.GitlabError`](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabImportError`(*error_message: Union[str, bytes] = "*, *response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [`gitlab.exceptions.GitlabOperationError`](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabJobCancelError`(*error_message: Union[str, bytes] = "*, *response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [`gitlab.exceptions.GitlabCancelError`](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabJobEraseError`(*error_message: Union[str, bytes] = "*, *response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [`gitlab.exceptions.GitlabRetryError`](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabJobPlayError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabRetryError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabJobRetryError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabRetryError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabLicenseError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabListError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

```
exception gitlab.exceptions.GitlabMRApprovalError(error_message: Union[str, bytes] = "",  
                                                response_code: Optional[int] = None,  
                                                response_body: Optional[bytes] = None)
```

Bases: [gitlab.exceptions.GitlabOperationError](#)

Parameters

- **error_message** (Union[str, bytes]) –
- **response_code** (Optional[int]) –
- **response_body** (Optional[bytes]) –

Return type None

```
exception gitlab.exceptions.GitlabMRClosedError(error_message: Union[str, bytes] = "", response_code:  
                                                Optional[int] = None, response_body:  
                                                Optional[bytes] = None)
```

Bases: [gitlab.exceptions.GitlabOperationError](#)

Parameters

- **error_message** (Union[str, bytes]) –
- **response_code** (Optional[int]) –
- **response_body** (Optional[bytes]) –

Return type None

```
exception gitlab.exceptions.GitlabMRForbiddenError(error_message: Union[str, bytes] = "",  
                                                  response_code: Optional[int] = None,  
                                                  response_body: Optional[bytes] = None)
```

Bases: [gitlab.exceptions.GitlabOperationError](#)

Parameters

- **error_message** (Union[str, bytes]) –
- **response_code** (Optional[int]) –
- **response_body** (Optional[bytes]) –

Return type None

```
exception gitlab.exceptions.GitlabMROnBuildSuccessError(error_message: Union[str, bytes] = "",  
                                                         response_code: Optional[int] = None,  
                                                         response_body: Optional[bytes] = None)
```

Bases: [gitlab.exceptions.GitlabOperationError](#)

Parameters

- **error_message** (Union[str, bytes]) –
- **response_code** (Optional[int]) –
- **response_body** (Optional[bytes]) –

Return type None

```
exception gitlab.exceptions.GitlabMRRebaseError(error_message: Union[str, bytes] = "", response_code:  
                                                Optional[int] = None, response_body:  
                                                Optional[bytes] = None)
```

Bases: [gitlab.exceptions.GitlabOperationError](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception gitlab.exceptions.GitlabMarkdownError(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [gitlab.exceptions.GitlabOperationError](#)**Parameters**

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception gitlab.exceptions.GitlabOperationError(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [gitlab.exceptions.GitlabError](#)**Parameters**

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception gitlab.exceptions.GitlabOwnershipError(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [gitlab.exceptions.GitlabOperationError](#)**Parameters**

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception gitlab.exceptions.GitlabParsingError(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [gitlab.exceptions.GitlabError](#)**Parameters**

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –

- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabPipelineCancelError`(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [`gitlab.exceptions.GitlabCancelError`](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabPipelinePlayError`(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [`gitlab.exceptions.GitlabRetryError`](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabPipelineRetryError`(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [`gitlab.exceptions.GitlabRetryError`](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabProjectDeployKeyError`(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [`gitlab.exceptions.GitlabOperationError`](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabPromoteError`(*error_message*: `Union[str, bytes] = ''`, *response_code*: `Optional[int] = None`, *response_body*: `Optional[bytes] = None`)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (`Union[str, bytes]`) –
- **response_code** (`Optional[int]`) –
- **response_body** (`Optional[bytes]`) –

Return type `None`

exception `gitlab.exceptions.GitlabProtectError`(*error_message*: `Union[str, bytes] = ''`, *response_code*: `Optional[int] = None`, *response_body*: `Optional[bytes] = None`)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (`Union[str, bytes]`) –
- **response_code** (`Optional[int]`) –
- **response_body** (`Optional[bytes]`) –

Return type `None`

exception `gitlab.exceptions.GitlabRenderError`(*error_message*: `Union[str, bytes] = ''`, *response_code*: `Optional[int] = None`, *response_body*: `Optional[bytes] = None`)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (`Union[str, bytes]`) –
- **response_code** (`Optional[int]`) –
- **response_body** (`Optional[bytes]`) –

Return type `None`

exception `gitlab.exceptions.GitlabRepairError`(*error_message*: `Union[str, bytes] = ''`, *response_code*: `Optional[int] = None`, *response_body*: `Optional[bytes] = None`)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (`Union[str, bytes]`) –
- **response_code** (`Optional[int]`) –
- **response_body** (`Optional[bytes]`) –

Return type `None`

exception `gitlab.exceptions.GitlabRetryError`(*error_message*: `Union[str, bytes] = ''`, *response_code*: `Optional[int] = None`, *response_body*: `Optional[bytes] = None`)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception gitlab.exceptions.GitlabRevertError(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [gitlab.exceptions.GitlabOperationError](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception gitlab.exceptions.GitlabSearchError(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [gitlab.exceptions.GitlabOperationError](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception gitlab.exceptions.GitlabSetError(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [gitlab.exceptions.GitlabOperationError](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception gitlab.exceptions.GitlabStopError(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: [gitlab.exceptions.GitlabOperationError](#)

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –

- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabSubscribeError`(*error_message: Union[str, bytes] = "*
response_code: Optional[int] = None,
response_body: Optional[bytes] = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabTimeTrackingError`(*error_message: Union[str, bytes] = "*
response_code: Optional[int] = None,
response_body: Optional[bytes] = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabTodoError`(*error_message: Union[str, bytes] = "*
response_code: Optional[int] = None, response_body: Optional[bytes] =
None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabTransferProjectError`(*error_message: Union[str, bytes] = "*
response_code: Optional[int] = None,
response_body: Optional[bytes] = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabUnblockError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabUnfollowError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabUnsubscribeError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabUpdateError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabUploadError`(*error_message*: *Union[str, bytes]* = "", *response_code*: *Optional[int]* = None, *response_body*: *Optional[bytes]* = None)

Bases: `gitlab.exceptions.GitlabOperationError`

Parameters

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.GitlabVerifyError`(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: `gitlab.exceptions.GitlabOperationError`**Parameters**

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

exception `gitlab.exceptions.RedirectError`(*error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None*)

Bases: `gitlab.exceptions.GitlabError`**Parameters**

- **error_message** (*Union[str, bytes]*) –
- **response_code** (*Optional[int]*) –
- **response_body** (*Optional[bytes]*) –

Return type None

`gitlab.exceptions.on_http_error`(*error: Type[Exception]*) → `Callable[[gitlab.exceptions.__F], gitlab.exceptions.__F]`

Manage `GitlabHttpError` exceptions.This decorator function can be used to catch `GitlabHttpError` exceptions raise specialized exceptions instead.**Parameters**

- **GitlabError** (*The exception type to raise -- must inherit from*) –
- **error** (*Type[Exception]*) –

Return type `Callable[[gitlab.exceptions.__F], gitlab.exceptions.__F]`

6.5.9 gitlab.mixins module

class gitlab.mixins.AccessRequestMixin

Bases: object

approve(*access_level: int = 30, **kwargs: Any*) → None

Approve an access request.

Parameters

- **access_level** (*int*) – The access level for the user
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabUpdateError*](#) – If the server fails to perform the request

Return type None

manager: [*gitlab.base.RESTManager*](#)

class gitlab.mixins.BadgeRenderMixin

Bases: object

render(*link_url: str, image_url: str, **kwargs: Any*) → Dict[str, Any]

Preview link_url and image_url after interpolation.

Parameters

- **link_url** (*str*) – URL of the badge link
- **image_url** (*str*) – URL of the badge image
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabRenderError*](#) – If the rendering failed

Returns The rendering properties

Return type Dict[str, Any]

class gitlab.mixins.CRUDMixin

Bases: [*gitlab.mixins.GetMixin*](#), [*gitlab.mixins.ListMixin*](#), [*gitlab.mixins.CreateMixin*](#),
[*gitlab.mixins.UpdateMixin*](#), [*gitlab.mixins.DeleteMixin*](#)

gitlab: [*gitlab.client.Gitlab*](#)

class gitlab.mixins.CreateMixin

Bases: object

create(*data: Optional[Dict[str, Any]] = None, **kwargs: Any*) → *gitlab.base.RESTObject*

Create a new object.

Parameters

- **data** (*Optional[Dict[str, Any]]*) – parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns

A new instance of the managed object class built with the data sent by the server

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabCreateError** – If the server cannot perform the request

Return type *gitlab.base.RESTObject*

gitlab: *gitlab.client.Gitlab*

class *gitlab.mixins.DeleteMixin*

Bases: object

delete(*id: Optional[Union[int, str]] = None, **kwargs: Any*) → None

Delete an object on the server.

Parameters

- **id** (*Optional[Union[int, str]]*) – ID of the object to delete
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabDeleteError** – If the server cannot perform the request

Return type None

gitlab: *gitlab.client.Gitlab*

class *gitlab.mixins.DownloadMixin*

Bases: object

download(*streamed: bool = False, action: Optional[Callable] = None, chunk_size: int = 1024, **kwargs: Any*) → *Optional[bytes]*

Download the archive of a resource export.

Parameters

- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*Optional[Callable]*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)

- **kwargs** (*Any*) –

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabGetError*** – If the server failed to perform the request

Returns The blob content if streamed is False, None otherwise

Return type *Optional*[bytes]

manager: *gitlab.base.RESTManager*

class gitlab.mixins.GetMixin

Bases: object

get(*id: Union[str, int], lazy: bool = False, **kwargs: Any*) → *gitlab.base.RESTObject*

Retrieve a single object.

Parameters

- **id** (*Union[str, int]*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Returns The generated RESTObject.

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabGetError*** – If the server cannot perform the request

Return type *gitlab.base.RESTObject*

gitlab: *gitlab.client.Gitlab*

class gitlab.mixins.GetWithoutIdMixin

Bases: object

get(*id: Optional[Union[int, str]] = None, **kwargs: Any*) → *Optional[gitlab.base.RESTObject]*

Retrieve a single object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **id** (*Optional[Union[int, str]]*) –
- **kwargs** (*Any*) –

Returns The generated RESTObject

Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabGetError*** – If the server cannot perform the request

Return type *Optional[gitlab.base.RESTObject]*

gitlab: *gitlab.client.Gitlab*

class gitlab.mixins.ListMixin

Bases: object

gitlab: *gitlab.client.Gitlab*

list(**kwargs: Any) → Union[*gitlab.base.RESTObjectList*, List[*gitlab.base.RESTObject*]]

Retrieve a list of objects.

Parameters

- **all** – If True, return all the items, without pagination
- **per_page** – Number of items to retrieve per request
- **page** – ID of the page to return (starts with page 1)
- **as_list** – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The list of objects, or a generator if *as_list* is False

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabListError* – If the server cannot perform the request

Return type Union[*gitlab.base.RESTObjectList*, List[*gitlab.base.RESTObject*]]

class gitlab.mixins.NoUpdateMixin

Bases: *gitlab.mixins.GetMixin*, *gitlab.mixins.ListMixin*, *gitlab.mixins.CreateMixin*, *gitlab.mixins.DeleteMixin*

gitlab: *gitlab.client.Gitlab*

class gitlab.mixins.ObjectDeleteMixin

Bases: object

Mixin for RESTObject's that can be deleted.

delete(**kwargs: Any) → None

Delete the object from the server.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabDeleteError* – If the server cannot perform the request

Return type None

manager: *gitlab.base.RESTManager*

```
class gitlab.mixins.ParticipantsMixin
```

Bases: object

manager: [gitlab.base.RESTManager](#)

participants(**kwargs: Any) → Dict[str, Any]

List the participants.

Parameters

- **all** – If True, return all the items, without pagination
- **per_page** – Number of items to retrieve per request
- **page** – ID of the page to return (starts with page 1)
- **as_list** – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabListError](#) – If the list could not be retrieved

Returns The list of participants

Return type Dict[str, Any]

```
class gitlab.mixins.RefreshMixin
```

Bases: object

manager: [gitlab.base.RESTManager](#)

refresh(**kwargs: Any) → None

Refresh a single object from server.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Return type None

Returns None (updates the object)

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabGetError](#) – If the server cannot perform the request

Parameters **kwargs** (Any) –

Return type None

```
class gitlab.mixins.RetrieveMixin
```

Bases: [gitlab.mixins.ListMixin](#), [gitlab.mixins.GetMixin](#)

gitlab: [gitlab.client.Gitlab](#)

class gitlab.mixins.SaveMixin

Bases: object

Mixin for RESTObject's that can be updated.

manager: [gitlab.base.RESTManager](#)

save(**kwargs: Any) → Optional[Dict[str, Any]]

Save the changes made to the object to the server.

The object is updated to match what the server returns.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Returns The new object data (*not* a RESTObject)

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabUpdateError](#) – If the server cannot perform the request

Return type Optional[Dict[str, Any]]

class gitlab.mixins.SetMixin

Bases: object

gitlab: [gitlab.client.Gitlab](#)

set(key: str, value: str, **kwargs: Any) → gitlab.base.RESTObject

Create or update the object.

Parameters

- **key** (str) – The key of the object to create/update
- **value** (str) – The value to set for the object
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- [GitlabAuthenticationError](#) – If authentication is not correct
- [GitlabSetError](#) – If an error occurred

Returns The created/updated attribute

Return type [gitlab.base.RESTObject](#)

class gitlab.mixins.SubscribableMixin

Bases: object

manager: [gitlab.base.RESTManager](#)

subscribe(**kwargs: Any) → None

Subscribe to the object notifications.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)

- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabSubscribeError`](#) – If the subscription cannot be done

Return type `None`

unsubscribe(**kwargs: *Any*) → `None`

Unsubscribe from the object notifications.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabUnsubscribeError`](#) – If the unsubscription cannot be done

Return type `None`

class `gitlab.mixins.TimeTrackingMixin`

Bases: `object`

add_spent_time(duration: *str*, **kwargs: *Any*) → `Dict[str, Any]`

Add time spent working on the object.

Parameters

- **duration** (*str*) – Duration in human format (e.g. 3h30)
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabTimeTrackingError`](#) – If the time tracking update cannot be done

Return type `Dict[str, Any]`

manager: [`gitlab.base.RESTManager`](#)

reset_spent_time(**kwargs: *Any*) → `Dict[str, Any]`

Resets the time spent working on the object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabTimeTrackingError`](#) – If the time tracking update cannot be done

Return type `Dict[str, Any]`

reset_time_estimate(**kwargs: Any) → Dict[str, Any]

Resets estimated time for the object to 0 seconds.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabTimeTrackingError*](#) – If the time tracking update cannot be done

Return type Dict[str, Any]

time_estimate(duration: str, **kwargs: Any) → Dict[str, Any]

Set an estimated time of work for the object.

Parameters

- **duration** (str) – Duration in human format (e.g. 3h30)
- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabTimeTrackingError*](#) – If the time tracking update cannot be done

Return type Dict[str, Any]

time_stats(**kwargs: Any) → Dict[str, Any]

Get time stats for the object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- [*GitlabAuthenticationError*](#) – If authentication is not correct
- [*GitlabTimeTrackingError*](#) – If the time tracking update cannot be done

Return type Dict[str, Any]

class gitlab.mixins.**TodoMixin**

Bases: object

manager: [*gitlab.base.RESTManager*](#)

todo(**kwargs: Any) → None

Create a todo associated to the object.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. sudo)
- **kwargs** (Any) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabTodoError`](#) – If the todo cannot be set

Return type `None`

class `gitlab.mixins.UpdateMixin`

Bases: `object`

gitlab: [`gitlab.client.Gitlab`](#)

update(*id: Optional[Union[int, str]] = None, new_data: Optional[Dict[str, Any]] = None, **kwargs: Any*)
→ `Dict[str, Any]`

Update an object on the server.

Parameters

- **id** (*Optional[Union[int, str]]*) – ID of the object to update (can be `None` if not required)
- **new_data** (*Optional[Dict[str, Any]]*) – the update data for the object
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (*Any*) –

Returns The new object data (*not* a `RESTObject`)

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabUpdateError`](#) – If the server cannot perform the request

Return type `Dict[str, Any]`

class `gitlab.mixins.UserAgentDetailMixin`

Bases: `object`

manager: [`gitlab.base.RESTManager`](#)

user_agent_detail(***kwargs: Any*) → `Dict[str, Any]`

Get the user agent detail.

Parameters

- ****kwargs** – Extra options to send to the server (e.g. `sudo`)
- **kwargs** (*Any*) –

Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the server cannot perform the request

Return type `Dict[str, Any]`

6.5.10 gitlab.utils module

class `gitlab.utils.EncodedId`(*value: Union[str, int, gitlab.utils.EncodedId]*)

Bases: `str`

A custom *str* class that will return the URL-encoded value of the string.

- Using it recursively will only url-encode the value once.
- Can accept either *str* or *int* as input value.
- Can be used in an f-string and output the URL-encoded string.

Reference to documentation on why this is necessary.

See:

<https://docs.gitlab.com/ee/api/index.html#namespaced-path-encoding>
<https://docs.gitlab.com/ee/api/index.html#path-parameters>

Parameters *value* (*Union[str, int, EncodedId]*) –

Return type *Union[int, EncodedId]*

`gitlab.utils.copy_dict`(**, src: Dict[str, Any], dest: Dict[str, Any]*) → `None`

Parameters

- **src** (*Dict[str, Any]*) –
- **dest** (*Dict[str, Any]*) –

Return type `None`

`gitlab.utils.remove_none_from_dict`(*data: Dict[str, Any]*) → `Dict[str, Any]`

Parameters *data* (*Dict[str, Any]*) –

Return type *Dict[str, Any]*

`gitlab.utils.response_content`(*response: requests.models.Response, streamed: bool, action: Optional[Callable], chunk_size: int*) → `Optional[bytes]`

Parameters

- **response** (*requests.models.Response*) –
- **streamed** (*bool*) –
- **action** (*Optional[Callable]*) –
- **chunk_size** (*int*) –

Return type *Optional[bytes]*

`gitlab.utils.warn`(*message: str, *, category: Optional[Type] = None, source: Optional[Any] = None*) → `None`

This `warnings.warn` wrapper function attempts to show the location causing the warning in the user code that called the library.

It does this by walking up the stack trace to find the first frame located outside the `gitlab/` directory. This is helpful to users as it shows them their code that is causing the warning.

Parameters

- **message** (*str*) –

- **category** (*Optional*[*Type*]) –
- **source** (*Optional*[*Any*]) –

Return type None

6.6 CLI reference (gitlab command)

Warning: The following is a complete, auto-generated list of subcommands available via the **gitlab** command-line tool. Some of the actions may currently not work as expected or lack functionality available via the API.

Please see the existing [list of CLI related issues](#), or open a new one if it is not already listed there.

6.6.1 gitlab

GitLab API Command Line Interface

```
usage: gitlab [-h] [--version] [-v] [-d] [-c CONFIG_FILE] [-g GITLAB]
             [-o {json,legacy,yaml}] [-f FIELDS] [--server-url SERVER_URL]
             [--ssl-verify SSL_VERIFY] [--timeout TIMEOUT]
             [--api-version API_VERSION] [--per-page PER_PAGE]
             [--pagination PAGINATION] [--order-by ORDER_BY]
             [--user-agent USER_AGENT]
             [--private-token PRIVATE_TOKEN | --oauth-token OAUTH_TOKEN | --job-token_
↪JOB_TOKEN]
             {application,application-appearance,application-settings,audit-event,
↪broadcast-message,current-user,current-user-email,current-user-gpg-key,current-user-
↪key,current-user-status,deploy-key,deploy-token,dockerfile,event,feature,generic-
↪package,geo-node,gitignore,gitlabciyaml,group,group-access-request,group-access-token,
↪group-audit-event,group-badge,group-billable-member,group-billable-member-membership,
↪group-board,group-board-list,group-cluster,group-custom-attribute,group-deploy-token,
↪group-descendant-group,group-epic,group-epic-award-emoji,group-epic-discussion-note,
↪group-epic-issue,group-epic-note,group-epic-note-award-emoji,group-epic-resource-label-
↪event,group-export,group-hook,group-import,group-issue,group-issues-statistics,group-
↪label,group-member,group-member-all,group-merge-request,group-milestone,group-
↪notification-settings,group-package,group-project,group-runner,group-subgroup,group-
↪variable,group-wiki,hook,issue,issues-statistics,key,ldap-group,license,merge-request,
↪namespace,notification-settings,pages-domain,personal-access-token,project,project-
↪access-request,project-access-token,project-additional-statistics,project-approval,
↪project-approval-rule,project-artifact,project-audit-event,project-badge,project-board,
↪project-board-list,project-branch,project-cluster,project-commit,project-commit-
↪comment,project-commit-discussion,project-commit-discussion-note,project-commit-status,
↪project-custom-attribute,project-deploy-token,project-deployment,project-deployment-
↪merge-request,project-environment,project-event,project-export,project-file,project-
↪fork,project-hook,project-import,project-issue,project-issue-award-emoji,project-issue-
↪discussion,project-issue-discussion-note,project-issue-link,project-issue-note,project-
↪issue-note-award-emoji,project-issue-resource-label-event,project-issue-resource-
↪milestone-event,project-issue-resource-state-event,project-issues-statistics,project-
↪job,project-key,project-label,project-member,project-member-all,project-merge-request,
↪project-merge-request-approval,project-merge-request-approval-rule,project-merge-
↪request-approval-state,project-merge-request-award-emoji,project-merge-request-diff,
↪project-merge-request-discussion,project-merge-request-discussion-note,project-merge-
↪request-note,project-merge-request-note-award-emoji,project-merge-request-pipeline,
↪project-merge-request-resource-label-event,project-merge-request-resource-milestone-
↪event,project-merge-request-resource-state-event,project-merge-tra
↪project-note,project-notification-settings,project-package,project-package-file,
↪project-pages-domain,project-pipeline,project-pipeline-bridge,project-pipeline-job,
↪project-pipeline-schedule,project-pipeline-schedule-variable,project-pipeline-test-
↪report,project-pipeline-test-report-summary,project-pipeline-variable,project-
```

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...

-h, --help
show this help message and exit

--version
Display the version.

-v, --verbose, --fancy
Verbose mode (legacy format only) [env var: GITLAB_VERBOSE]

-d, --debug
Debug mode (display HTTP requests) [env var: GITLAB_DEBUG]

-c <config_file>, --config-file <config_file>
Configuration file to use. Can be used multiple times. [env var: PYTHON_GITLAB_CFG]

-g <gitlab>, --gitlab <gitlab>
Which configuration section should be used. If not defined, the default selection will be used.

-o {json,legacy,yaml}, --output {json,legacy,yaml}
Output format (v4 only): json|legacy|yaml

-f <fields>, --fields <fields>
Fields to display in the output (comma separated). Not used with legacy output

--server-url <server_url>
GitLab server URL [env var: GITLAB_URL]

--ssl-verify <ssl_verify>
Whether SSL certificates should be validated. [env var: GITLAB_SSL_VERIFY]

--timeout <timeout>
Timeout to use for requests to the GitLab server. [env var: GITLAB_TIMEOUT]

--api-version <api_version>
GitLab API version [env var: GITLAB_API_VERSION]

--per-page <per_page>
Number of entries to return per page in the response. [env var: GITLAB_PER_PAGE]

--pagination <pagination>
Whether to use keyset or offset pagination [env var: GITLAB_PAGINATION]

--order-by <order_by>
Set order_by globally [env var: GITLAB_ORDER_BY]

--user-agent <user_agent>
The user agent to send to GitLab with the HTTP request. [env var: GITLAB_USER_AGENT]

--private-token <private_token>
GitLab private access token [env var: GITLAB_PRIVATE_TOKEN]

--oauth-token <oauth_token>
GitLab OAuth token [env var: GITLAB_OAUTH_TOKEN]

--job-token <job_token>
GitLab CI job token [env var: CI_JOB_TOKEN]

gitlab application

```
usage: gitlab application [-h] {list,create,delete} ...
```

-h, --help

show this help message and exit

gitlab application create

```
usage: gitlab application create [-h] [--sudo SUDO] --name NAME --redirect-uri
                                REDIRECT_URI --scopes SCOPES
                                [--confidential CONFIDENTIAL]
```

-h, --help

show this help message and exit

--sudo <sudo>

--name <name>

--redirect-uri <redirect_uri>

--scopes <scopes>

--confidential <confidential>

gitlab application delete

```
usage: gitlab application delete [-h] [--sudo SUDO] --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--id <id>

gitlab application list

```
usage: gitlab application list [-h] [--sudo SUDO] [--page PAGE]
                                [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab application-appearance

```
usage: gitlab application-appearance [-h] {get,update} ...
```

-h, --help

show this help message and exit

gitlab application-appearance get

```
usage: gitlab application-appearance get [-h] [--sudo SUDO]
```

-h, --help

show this help message and exit

--sudo <sudo>

gitlab application-appearance update

```
usage: gitlab application-appearance update [-h] [--sudo SUDO] [--title TITLE]
                                           [--description DESCRIPTION]
                                           [--logo LOGO]
                                           [--header-logo HEADER_LOGO]
                                           [--favicon FAVICON]
                                           [--new-project-guidelines NEW_PROJECT_
↪GUIDELINES]
                                           [--header-message HEADER_MESSAGE]
                                           [--footer-message FOOTER_MESSAGE]
                                           [--message-background-color MESSAGE_
↪BACKGROUND_COLOR]
                                           [--message-font-color MESSAGE_FONT_COLOR]
                                           [--email-header-and-footer-enabled EMAIL_
↪HEADER_AND_FOOTER_ENABLED]
```

-h, --help

show this help message and exit

--sudo <sudo>

--title <title>

--description <description>

--logo <logo>

--header-logo <header_logo>

--favicon <favicon>

--new-project-guidelines <new_project_guidelines>

--header-message <header_message>

--footer-message <footer_message>

```
--message-background-color <message_background_color>
--message-font-color <message_font_color>
--email-header-and-footer-enabled <email_header_and_footer_enabled>
```

gitlab application-settings

```
usage: gitlab application-settings [-h] {get,update} ...
```

-h, --help
show this help message and exit

gitlab application-settings get

```
usage: gitlab application-settings get [-h] [--sudo SUDO]
```

-h, --help
show this help message and exit

--sudo <sudo>

gitlab application-settings update

```
usage: gitlab application-settings update [-h] [--sudo SUDO] [--id ID]
                                           [--default-projects-limit DEFAULT_PROJECTS_
↳LIMIT]
                                           [--signup-enabled SIGNUP_ENABLED]
                                           [--password-authentication-enabled-for-web↳
↳PASSWORD_AUTHENTICATION_ENABLED_FOR_WEB]
                                           [--gravatar-enabled GRAVATAR_ENABLED]
                                           [--sign-in-text SIGN_IN_TEXT]
                                           [--created-at CREATED_AT]
                                           [--updated-at UPDATED_AT]
                                           [--home-page-url HOME_PAGE_URL]
                                           [--default-branch-protection DEFAULT_BRANCH_
↳PROTECTION]
                                           [--restricted-visibility-levels RESTRICTED_
↳VISIBILITY_LEVELS]
                                           [--max-attachment-size MAX_ATTACHMENT_SIZE]
                                           [--session-expire-delay SESSION_EXPIRE_DELAY]
                                           [--default-project-visibility DEFAULT_PROJECT_
↳VISIBILITY]
                                           [--default-snippet-visibility DEFAULT_SNIPPET_
↳VISIBILITY]
                                           [--default-group-visibility DEFAULT_GROUP_
↳VISIBILITY]
                                           [--outbound-local-requests-whitelist OUTBOUND_
↳LOCAL_REQUESTS_WHITELIST]
                                           [--disabled-oauth-sign-in-sources DISABLED_
↳OAUTH_SIGN_IN_SOURCES]
```

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```

--domain-whitelist DOMAIN_WHITELIST]
--domain-blacklist-enabled DOMAIN_BLACKLIST_
↳ENABLED]

--domain-blacklist DOMAIN_BLACKLIST]
--domain-allowlist DOMAIN_ALLOWLIST]
--domain-denylist-enabled DOMAIN_DENYLIST_
↳ENABLED]

--domain-denylist DOMAIN_DENYLIST]
--external-authorization-service-enabled↳
↳EXTERNAL_AUTHORIZATION_SERVICE_ENABLED]

--external-authorization-service-url EXTERNAL_
↳AUTHORIZATION_SERVICE_URL]

--external-authorization-service-default-
↳label EXTERNAL_AUTHORIZATION_SERVICE_DEFAULT_LABEL]

--external-authorization-service-timeout↳
↳EXTERNAL_AUTHORIZATION_SERVICE_TIMEOUT]

--import-sources IMPORT_SOURCES]
--user-oauth-applications USER_OAUTH_
↳APPLICATIONS]

--after-sign-out-path AFTER_SIGN_OUT_PATH]
--container-registry-token-expire-delay↳
↳CONTAINER_REGISTRY_TOKEN_EXPIRE_DELAY]

--repository-storages REPOSITORY_STORAGES]
--plantuml-enabled PLANTUML_ENABLED]
--plantuml-url PLANTUML_URL]
--terminal-max-session-time TERMINAL_MAX_
↳SESSION_TIME]

--polling-interval-multiplier POLLING_
↳INTERVAL_MULTIPLIER]

--rsa-key-restriction RSA_KEY_RESTRICTION]
--dsa-key-restriction DSA_KEY_RESTRICTION]
--ecdsa-key-restriction ECDSA_KEY_RESTRICTION]
--ed25519-key-restriction ED25519_KEY_
↳RESTRICTION]

--first-day-of-week FIRST_DAY_OF_WEEK]
--enforce-terms ENFORCE_TERMS]
--terms TERMS]
--performance-bar-allowed-group-id↳
↳PERFORMANCE_BAR_ALLOWED_GROUP_ID]

--instance-statistics-visibility-private↳
↳INSTANCE_STATISTICS_VISIBILITY_PRIVATE]

--user-show-add-ssh-key-message USER_SHOW_ADD_
↳SSH_KEY_MESSAGE]

--file-template-project-id FILE_TEMPLATE_
↳PROJECT_ID]

--local-markdown-version LOCAL_MARKDOWN_
↳VERSION]

--asset-proxy-enabled ASSET_PROXY_ENABLED]
--asset-proxy-url ASSET_PROXY_URL]
--asset-proxy-whitelist ASSET_PROXY_WHITELIST]
--asset-proxy-allowlist ASSET_PROXY_ALLOWLIST]
--geo-node-allowed-ips GEO_NODE_ALLOWED_IPS]

```

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```
                                [--allow-local-requests-from-hooks-and-  
↪services ALLOW_LOCAL_REQUESTS_FROM_HOOKS_AND_SERVICES]  
                                [--allow-local-requests-from-web-hooks-and-  
↪services ALLOW_LOCAL_REQUESTS_FROM_WEB_HOOKS_AND_SERVICES]  
                                [--allow-local-requests-from-system-hooks_  
↪ALLOW_LOCAL_REQUESTS_FROM_SYSTEM_HOOKS]
```

-h, --help

show this help message and exit

--sudo <sudo>

--id <id>

--default-projects-limit <default_projects_limit>

--signup-enabled <signup_enabled>

--password-authentication-enabled-for-web <password_authentication_enabled_for_web>

--gravatar-enabled <gravatar_enabled>

--sign-in-text <sign_in_text>

--created-at <created_at>

--updated-at <updated_at>

--home-page-url <home_page_url>

--default-branch-protection <default_branch_protection>

--restricted-visibility-levels <restricted_visibility_levels>

--max-attachment-size <max_attachment_size>

--session-expire-delay <session_expire_delay>

--default-project-visibility <default_project_visibility>

--default-snippet-visibility <default_snippet_visibility>

--default-group-visibility <default_group_visibility>

--outbound-local-requests-whitelist <outbound_local_requests_whitelist>

--disabled-oauth-sign-in-sources <disabled_oauth_sign_in_sources>

--domain-whitelist <domain_whitelist>

--domain-blacklist-enabled <domain_blacklist_enabled>

--domain-blacklist <domain_blacklist>

--domain-allowlist <domain_allowlist>

--domain-denylist-enabled <domain_denylist_enabled>

```
--domain-denylist <domain_denylist>
--external-authorization-service-enabled <external_authorization_service_enabled>
--external-authorization-service-url <external_authorization_service_url>
--external-authorization-service-default-label <external_authorization_service_default_label>
--external-authorization-service-timeout <external_authorization_service_timeout>
--import-sources <import_sources>
--user-oauth-applications <user_oauth_applications>
--after-sign-out-path <after_sign_out_path>
--container-registry-token-expire-delay <container_registry_token_expire_delay>
--repository-storages <repository_storages>
--plantuml-enabled <plantuml_enabled>
--plantuml-url <plantuml_url>
--terminal-max-session-time <terminal_max_session_time>
--polling-interval-multiplier <polling_interval_multiplier>
--rsa-key-restriction <rsa_key_restriction>
--dsa-key-restriction <dsa_key_restriction>
--ecdsa-key-restriction <ecdsa_key_restriction>
--ed25519-key-restriction <ed25519_key_restriction>
--first-day-of-week <first_day_of_week>
--enforce-terms <enforce_terms>
--terms <terms>
--performance-bar-allowed-group-id <performance_bar_allowed_group_id>
--instance-statistics-visibility-private <instance_statistics_visibility_private>
--user-show-add-ssh-key-message <user_show_add_ssh_key_message>
--file-template-project-id <file_template_project_id>
--local-markdown-version <local_markdown_version>
--asset-proxy-enabled <asset_proxy_enabled>
--asset-proxy-url <asset_proxy_url>
--asset-proxy-whitelist <asset_proxy_whitelist>
--asset-proxy-allowlist <asset_proxy_allowlist>
--geo-node-allowed-ips <geo_node_allowed_ips>
```

```
--allow-local-requests-from-hooks-and-services <allow_local_requests_from_hooks_and_services>
--allow-local-requests-from-web-hooks-and-services <allow_local_requests_from_web_hooks_and_services>
--allow-local-requests-from-system-hooks <allow_local_requests_from_system_hooks>
```

gitlab audit-event

```
usage: gitlab audit-event [-h] {list,get} ...
```

-h, --help
show this help message and exit

gitlab audit-event get

```
usage: gitlab audit-event get [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab audit-event list

```
usage: gitlab audit-event list [-h] [--sudo SUDO]
                                [--created-after CREATED_AFTER]
                                [--created-before CREATED_BEFORE]
                                [--entity-type ENTITY_TYPE]
                                [--entity-id ENTITY_ID] [--page PAGE]
                                [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--created-after <created_after>

--created-before <created_before>

--entity-type <entity_type>

--entity-id <entity_id>

--page <page>

--per-page <per_page>

--all

gitlab broadcast-message

```
usage: gitlab broadcast-message [-h] {list,get,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab broadcast-message create

```
usage: gitlab broadcast-message create [-h] [--sudo SUDO] --message MESSAGE
                                         [--starts-at STARTS_AT]
                                         [--ends-at ENDS_AT] [--color COLOR]
                                         [--font FONT]
```

-h, --help

show this help message and exit

--sudo <sudo>

--message <message>

--starts-at <starts_at>

--ends-at <ends_at>

--color <color>

--font

gitlab broadcast-message delete

```
usage: gitlab broadcast-message delete [-h] [--sudo SUDO] --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--id <id>

gitlab broadcast-message get

```
usage: gitlab broadcast-message get [-h] [--sudo SUDO] --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--id <id>

gitlab broadcast-message list

```
usage: gitlab broadcast-message list [-h] [--sudo SUDO] [--page PAGE]
                                     [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab broadcast-message update

```
usage: gitlab broadcast-message update [-h] [--sudo SUDO] --id ID
                                     [--message MESSAGE]
                                     [--starts-at STARTS_AT]
                                     [--ends-at ENDS_AT] [--color COLOR]
                                     [--font FONT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

--message <message>

--starts-at <starts_at>

--ends-at <ends_at>

--color <color>

--font

gitlab current-user

```
usage: gitlab current-user [-h] {get} ...
```

-h, --help
show this help message and exit

gitlab current-user get

```
usage: gitlab current-user get [-h] [--sudo SUDO]
```

-h, --help

show this help message and exit

--sudo <sudo>

gitlab current-user-email

```
usage: gitlab current-user-email [-h] {list,get,create,delete} ...
```

-h, --help

show this help message and exit

gitlab current-user-email create

```
usage: gitlab current-user-email create [-h] [--sudo SUDO] --email EMAIL
```

-h, --help

show this help message and exit

--sudo <sudo>

--email <email>

gitlab current-user-email delete

```
usage: gitlab current-user-email delete [-h] [--sudo SUDO] --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--id <id>

gitlab current-user-email get

```
usage: gitlab current-user-email get [-h] [--sudo SUDO] --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--id <id>

gitlab current-user-email list

```
usage: gitlab current-user-email list [-h] [--sudo SUDO] [--page PAGE]
                                     [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab current-user-gpg-key

```
usage: gitlab current-user-gpg-key [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab current-user-gpg-key create

```
usage: gitlab current-user-gpg-key create [-h] [--sudo SUDO] --key KEY
```

-h, --help
show this help message and exit

--sudo <sudo>

--key <key>

gitlab current-user-gpg-key delete

```
usage: gitlab current-user-gpg-key delete [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab current-user-gpg-key get

```
usage: gitlab current-user-gpg-key get [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab current-user-gpg-key list

```
usage: gitlab current-user-gpg-key list [-h] [--sudo SUDO] [--page PAGE]
                                         [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab current-user-key

```
usage: gitlab current-user-key [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab current-user-key create

```
usage: gitlab current-user-key create [-h] [--sudo SUDO] --title TITLE --key
                                         KEY
```

-h, --help
show this help message and exit

--sudo <sudo>

--title <title>

--key <key>

gitlab current-user-key delete

```
usage: gitlab current-user-key delete [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab current-user-key get

```
usage: gitlab current-user-key get [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab current-user-key list

```
usage: gitlab current-user-key list [-h] [--sudo SUDO] [--page PAGE]
                                     [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab current-user-status

```
usage: gitlab current-user-status [-h] {get,update} ...
```

-h, --help
show this help message and exit

gitlab current-user-status get

```
usage: gitlab current-user-status get [-h] [--sudo SUDO]
```

-h, --help

show this help message and exit

--sudo <sudo>

gitlab current-user-status update

```
usage: gitlab current-user-status update [-h] [--sudo SUDO] [--emoji EMOJI]
                                           [--message MESSAGE]
```

-h, --help

show this help message and exit

--sudo <sudo>

--emoji <emoji>

--message <message>

gitlab deploy-key

```
usage: gitlab deploy-key [-h] {list} ...
```

-h, --help

show this help message and exit

gitlab deploy-key list

```
usage: gitlab deploy-key list [-h] [--sudo SUDO] [--page PAGE]
                               [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab deploy-token

```
usage: gitlab deploy-token [-h] {list} ...
```

-h, --help

show this help message and exit

gitlab deploy-token list

```
usage: gitlab deploy-token list [-h] [--sudo SUDO] [--page PAGE]
                                [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab dockerfile

```
usage: gitlab dockerfile [-h] {list,get} ...
```

-h, --help

show this help message and exit

gitlab dockerfile get

```
usage: gitlab dockerfile get [-h] [--sudo SUDO] --name NAME
```

-h, --help

show this help message and exit

--sudo <sudo>

--name <name>

gitlab dockerfile list

```
usage: gitlab dockerfile list [-h] [--sudo SUDO] [--page PAGE]
                                [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

```
--page <page>
--per-page <per_page>
--all
```

gitlab event

```
usage: gitlab event [-h] {list} ...
```

-h, --help
show this help message and exit

gitlab event list

```
usage: gitlab event list [-h] [--sudo SUDO] [--action ACTION]
                        [--target-type TARGET_TYPE] [--before BEFORE]
                        [--after AFTER] [--sort SORT] [--page PAGE]
                        [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--action <action>

--target-type <target_type>

--before <before>

--after <after>

--sort <sort>

--page <page>

--per-page <per_page>

--all

gitlab feature

```
usage: gitlab feature [-h] {list,delete} ...
```

-h, --help
show this help message and exit

gitlab feature delete

```
usage: gitlab feature delete [-h] [--sudo SUDO] --name NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--name <name>

gitlab feature list

```
usage: gitlab feature list [-h] [--sudo SUDO] [--page PAGE]
                        [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab generic-package

```
usage: gitlab generic-package [-h] {upload,download} ...
```

-h, --help
show this help message and exit

gitlab generic-package download

```
usage: gitlab generic-package download [-h] --project-id PROJECT_ID
                                         [--sudo SUDO] --package-name
                                         PACKAGE_NAME --package-version
                                         PACKAGE_VERSION --file-name FILE_NAME
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--package-name <package_name>

--package-version <package_version>

--file-name <file_name>

gitlab generic-package upload

```
usage: gitlab generic-package upload [-h] --project-id PROJECT_ID
                                     [--sudo SUDO] --package-name PACKAGE_NAME
                                     --package-version PACKAGE_VERSION
                                     --file-name FILE_NAME --path PATH
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--package-name <package_name>

--package-version <package_version>

--file-name <file_name>

--path <path>

gitlab geo-node

```
usage: gitlab geo-node [-h]
                       {list,get,update,delete,repair,status,current-failures}
                       ...
```

-h, --help

show this help message and exit

gitlab geo-node current-failures

```
usage: gitlab geo-node current-failures [-h] --id ID
```

-h, --help

show this help message and exit

--id <id>

gitlab geo-node delete

```
usage: gitlab geo-node delete [-h] [--sudo SUDO] --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--id <id>

gitlab geo-node get

```
usage: gitlab geo-node get [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab geo-node list

```
usage: gitlab geo-node list [-h] [--sudo SUDO] [--page PAGE]
                             [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab geo-node repair

```
usage: gitlab geo-node repair [-h] --id ID
```

-h, --help
show this help message and exit

--id <id>

gitlab geo-node status

```
usage: gitlab geo-node status [-h] --id ID
```

-h, --help
show this help message and exit

--id <id>

gitlab geo-node update

```
usage: gitlab geo-node update [-h] [--sudo SUDO] --id ID [--enabled ENABLED]
                             [--url URL]
                             [--files-max-capacity FILES_MAX_CAPACITY]
                             [--repos-max-capacity REPOS_MAX_CAPACITY]
```

-h, --help

show this help message and exit

--sudo <sudo>**--id** <id>**--enabled** <enabled>**--url** <url>**--files-max-capacity** <files_max_capacity>**--repos-max-capacity** <repos_max_capacity>

gitlab gitignore

```
usage: gitlab gitignore [-h] {list,get} ...
```

-h, --help

show this help message and exit

gitlab gitignore get

```
usage: gitlab gitignore get [-h] [--sudo SUDO] --name NAME
```

-h, --help

show this help message and exit

--sudo <sudo>**--name** <name>

gitlab gitignore list

```
usage: gitlab gitignore list [-h] [--sudo SUDO] [--page PAGE]
                             [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>**--page** <page>

--per-page <per_page>
--all

gitlab gitlabciyaml

```
usage: gitlab gitlabciyaml [-h] {list,get} ...
```

-h, --help
show this help message and exit

gitlab gitlabciyaml get

```
usage: gitlab gitlabciyaml get [-h] [--sudo SUDO] --name NAME
```

-h, --help
show this help message and exit
--sudo <sudo>
--name <name>

gitlab gitlabciyaml list

```
usage: gitlab gitlabciyaml list [-h] [--sudo SUDO] [--page PAGE]  
                                [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit
--sudo <sudo>
--page <page>
--per-page <per_page>
--all

gitlab group

```
usage: gitlab group [-h]  
                    {list,get,create,update,delete,transfer-project,transfer,search,add-  
↪ ldap-group-link,delete-ldap-group-link,ldap-sync,share,unshare}  
                    ...
```

-h, --help
show this help message and exit

gitlab group add-ldap-group-link

```
usage: gitlab group add-ldap-group-link [-h] --id ID --cn CN --group-access
                                         GROUP_ACCESS --provider PROVIDER
```

-h, --help

show this help message and exit

--id <id>

--cn <cn>

--group-access <group_access>

--provider <provider>

gitlab group create

```
usage: gitlab group create [-h] [--sudo SUDO] --name NAME --path PATH
                           [--description DESCRIPTION]
                           [--membership-lock MEMBERSHIP_LOCK]
                           [--visibility VISIBILITY]
                           [--share-with-group-lock SHARE_WITH_GROUP_LOCK]
                           [--require-two-factor-authentication REQUIRE_TWO_FACTOR_
↪AUTHENTICATION]
                           [--two-factor-grace-period TWO_FACTOR_GRACE_PERIOD]
                           [--project-creation-level PROJECT_CREATION_LEVEL]
                           [--auto-devops-enabled AUTO_DEVOPS_ENABLED]
                           [--subgroup-creation-level SUBGROUP_CREATION_LEVEL]
                           [--emails-disabled EMAILS_DISABLED]
                           [--avatar AVATAR]
                           [--mentions-disabled MENTIONS_DISABLED]
                           [--lfs-enabled LFS_ENABLED]
                           [--request-access-enabled REQUEST_ACCESS_ENABLED]
                           [--parent-id PARENT_ID]
                           [--default-branch-protection DEFAULT_BRANCH_PROTECTION]
                           [--shared-runners-minutes-limit SHARED_RUNNERS_MINUTES_LIMIT]
                           [--extra-shared-runners-minutes-limit EXTRA_SHARED_RUNNERS_
↪MINUTES_LIMIT]
```

-h, --help

show this help message and exit

--sudo <sudo>

--name <name>

--path <path>

--description <description>

--membership-lock <membership_lock>

--visibility <visibility>

```
--share-with-group-lock <share_with_group_lock>
--require-two-factor-authentication <require_two_factor_authentication>
--two-factor-grace-period <two_factor_grace_period>
--project-creation-level <project_creation_level>
--auto-devops-enabled <auto_devops_enabled>
--subgroup-creation-level <subgroup_creation_level>
--emails-disabled <emails_disabled>
--avatar <avatar>
--mentions-disabled <mentions_disabled>
--lfs-enabled <lfs_enabled>
--request-access-enabled <request_access_enabled>
--parent-id <parent_id>
--default-branch-protection <default_branch_protection>
--shared-runners-minutes-limit <shared_runners_minutes_limit>
--extra-shared-runners-minutes-limit <extra_shared_runners_minutes_limit>
```

gitlab group delete

```
usage: gitlab group delete [-h] [--sudo SUDO] --id ID
```

```
-h, --help
    show this help message and exit
--sudo <sudo>
--id <id>
```

gitlab group delete-ldap-group-link

```
usage: gitlab group delete-ldap-group-link [-h] --id ID --cn CN
                                           [--provider PROVIDER]
```

```
-h, --help
    show this help message and exit
--id <id>
--cn <cn>
--provider <provider>
```

gitlab group get

```
usage: gitlab group get [-h] [--sudo SUDO] --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--id <id>

gitlab group ldap-sync

```
usage: gitlab group ldap-sync [-h] --id ID
```

-h, --help

show this help message and exit

--id <id>

gitlab group list

```
usage: gitlab group list [-h] [--sudo SUDO] [--skip-groups SKIP_GROUPS]
                        [--all-available ALL_AVAILABLE] [--search SEARCH]
                        [--order-by ORDER_BY] [--sort SORT]
                        [--statistics STATISTICS] [--owned OWNED]
                        [--with-custom-attributes WITH_CUSTOM_ATTRIBUTES]
                        [--min-access-level MIN_ACCESS_LEVEL]
                        [--top-level-only TOP_LEVEL_ONLY] [--page PAGE]
                        [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--skip-groups <skip_groups>

--all-available <all_available>

--search <search>

--order-by <order_by>

--sort <sort>

--statistics <statistics>

--owned <owned>

--with-custom-attributes <with_custom_attributes>

--min-access-level <min_access_level>

--top-level-only <top_level_only>
--page <page>
--per-page <per_page>
--all

gitlab group search

```
usage: gitlab group search [-h] --id ID --scope SCOPE --search SEARCH
```

-h, --help
show this help message and exit
--id <id>
--scope <scope>
--search <search>

gitlab group share

```
usage: gitlab group share [-h] --id ID --group-id GROUP_ID --group-access  
GROUP_ACCESS [--expires-at EXPIRES_AT]
```

-h, --help
show this help message and exit
--id <id>
--group-id <group_id>
--group-access <group_access>
--expires-at <expires_at>

gitlab group transfer

```
usage: gitlab group transfer [-h] --id ID [--group-id GROUP_ID]
```

-h, --help
show this help message and exit
--id <id>
--group-id <group_id>

gitlab group transfer-project

```
usage: gitlab group transfer-project [-h] --id ID --project-id PROJECT_ID
```

-h, --help

show this help message and exit

--id <id>

--project-id <project_id>

gitlab group unshare

```
usage: gitlab group unshare [-h] --id ID --group-id GROUP_ID
```

-h, --help

show this help message and exit

--id <id>

--group-id <group_id>

gitlab group update

```
usage: gitlab group update [-h] [--sudo SUDO] --id ID [--name NAME]
                             [--path PATH] [--description DESCRIPTION]
                             [--membership-lock MEMBERSHIP_LOCK]
                             [--share-with-group-lock SHARE_WITH_GROUP_LOCK]
                             [--visibility VISIBILITY]
                             [--require-two-factor-authentication REQUIRE_TWO_FACTOR_
↪AUTHENTICATION]
                             [--two-factor-grace-period TWO_FACTOR_GRACE_PERIOD]
                             [--project-creation-level PROJECT_CREATION_LEVEL]
                             [--auto-devops-enabled AUTO_DEVOPS_ENABLED]
                             [--subgroup-creation-level SUBGROUP_CREATION_LEVEL]
                             [--emails-disabled EMAILS_DISABLED]
                             [--avatar AVATAR]
                             [--mentions-disabled MENTIONS_DISABLED]
                             [--lfs-enabled LFS_ENABLED]
                             [--request-access-enabled REQUEST_ACCESS_ENABLED]
                             [--default-branch-protection DEFAULT_BRANCH_PROTECTION]
                             [--file-template-project-id FILE_TEMPLATE_PROJECT_ID]
                             [--shared-runners-minutes-limit SHARED_RUNNERS_MINUTES_LIMIT]
                             [--extra-shared-runners-minutes-limit EXTRA_SHARED_RUNNERS_
↪MINUTES_LIMIT]
                             [--prevent-forking-outside-group PREVENT_FORKING_OUTSIDE_
↪GROUP]
                             [--shared-runners-setting SHARED_RUNNERS_SETTING]
```

-h, --help

show this help message and exit

```
--sudo <sudo>
--id <id>
--name <name>
--path <path>
--description <description>
--membership-lock <membership_lock>
--share-with-group-lock <share_with_group_lock>
--visibility <visibility>
--require-two-factor-authentication <require_two_factor_authentication>
--two-factor-grace-period <two_factor_grace_period>
--project-creation-level <project_creation_level>
--auto-devops-enabled <auto_devops_enabled>
--subgroup-creation-level <subgroup_creation_level>
--emails-disabled <emails_disabled>
--avatar <avatar>
--mentions-disabled <mentions_disabled>
--lfs-enabled <lfs_enabled>
--request-access-enabled <request_access_enabled>
--default-branch-protection <default_branch_protection>
--file-template-project-id <file_template_project_id>
--shared-runners-minutes-limit <shared_runners_minutes_limit>
--extra-shared-runners-minutes-limit <extra_shared_runners_minutes_limit>
--prevent-forking-outside-group <prevent_forking_outside_group>
--shared-runners-setting <shared_runners_setting>
```

gitlab group-access-request

```
usage: gitlab group-access-request [-h] {list,create,delete,approve} ...
```

```
-h, --help
    show this help message and exit
```

gitlab group-access-request approve

```
usage: gitlab group-access-request approve [-h] --group-id GROUP_ID
                                           [--sudo SUDO] --id ID
                                           [--access-level ACCESS_LEVEL]
```

-h, --help

show this help message and exit

--group-id <group_id>

--sudo <sudo>

--id <id>

--access-level <access_level>

gitlab group-access-request create

```
usage: gitlab group-access-request create [-h] [--sudo SUDO] --group-id
                                           GROUP_ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

gitlab group-access-request delete

```
usage: gitlab group-access-request delete [-h] [--sudo SUDO] --group-id
                                           GROUP_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-access-request list

```
usage: gitlab group-access-request list [-h] [--sudo SUDO] --group-id GROUP_ID
                                         [--page PAGE] [--per-page PER_PAGE]
                                         [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>
--group-id <group_id>
--page <page>
--per-page <per_page>
--all

gitlab group-access-token

```
usage: gitlab group-access-token [-h] {list,create,delete} ...
```

-h, --help
show this help message and exit

gitlab group-access-token create

```
usage: gitlab group-access-token create [-h] [--sudo SUDO] --group-id GROUP_ID
```

-h, --help
show this help message and exit
--sudo <sudo>
--group-id <group_id>

gitlab group-access-token delete

```
usage: gitlab group-access-token delete [-h] [--sudo SUDO] --group-id GROUP_ID
                                         --id ID
```

-h, --help
show this help message and exit
--sudo <sudo>
--group-id <group_id>
--id <id>

gitlab group-access-token list

```
usage: gitlab group-access-token list [-h] [--sudo SUDO] --group-id GROUP_ID
                                       [--page PAGE] [--per-page PER_PAGE]
                                       [--all]
```

-h, --help
show this help message and exit

```
--sudo <sudo>
--group-id <group_id>
--page <page>
--per-page <per_page>
--all
```

gitlab group-audit-event

```
usage: gitlab group-audit-event [-h] {list,get} ...
```

-h, --help
show this help message and exit

gitlab group-audit-event get

```
usage: gitlab group-audit-event get [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --id ID
```

-h, --help
show this help message and exit

```
--sudo <sudo>
--group-id <group_id>
--id <id>
```

gitlab group-audit-event list

```
usage: gitlab group-audit-event list [-h] [--sudo SUDO] --group-id GROUP_ID
                                     [--created-after CREATED_AFTER]
                                     [--created-before CREATED_BEFORE]
                                     [--page PAGE] [--per-page PER_PAGE]
                                     [--all]
```

-h, --help
show this help message and exit

```
--sudo <sudo>
--group-id <group_id>
--created-after <created_after>
--created-before <created_before>
--page <page>
--per-page <per_page>
--all
```

gitlab group-badge

```
usage: gitlab group-badge [-h] {list,get,create,update,delete,render} ...
```

-h, --help

show this help message and exit

gitlab group-badge create

```
usage: gitlab group-badge create [-h] [--sudo SUDO] --group-id GROUP_ID
                                   --link-url LINK_URL --image-url IMAGE_URL
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--link-url <link_url>

--image-url <image_url>

gitlab group-badge delete

```
usage: gitlab group-badge delete [-h] [--sudo SUDO] --group-id GROUP_ID --id
                                   ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-badge get

```
usage: gitlab group-badge get [-h] [--sudo SUDO] --group-id GROUP_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-badge list

```
usage: gitlab group-badge list [-h] [--sudo SUDO] --group-id GROUP_ID
                               [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--page <page>

--per-page <per_page>

--all

gitlab group-badge render

```
usage: gitlab group-badge render [-h] --group-id GROUP_ID [--sudo SUDO] --id
                                ID --link-url LINK_URL --image-url IMAGE_URL
```

-h, --help
show this help message and exit

--group-id <group_id>

--sudo <sudo>

--id <id>

--link-url <link_url>

--image-url <image_url>

gitlab group-badge update

```
usage: gitlab group-badge update [-h] [--sudo SUDO] --group-id GROUP_ID --id
                                ID [--link-url LINK_URL]
                                [--image-url IMAGE_URL]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

--link-url <link_url>

--image-url <image_url>

gitlab group-billable-member

```
usage: gitlab group-billable-member [-h] {list,delete} ...
```

-h, --help

show this help message and exit

gitlab group-billable-member delete

```
usage: gitlab group-billable-member delete [-h] [--sudo SUDO] --group-id
                                           GROUP_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-billable-member list

```
usage: gitlab group-billable-member list [-h] [--sudo SUDO] --group-id
                                           GROUP_ID [--search SEARCH]
                                           [--sort SORT] [--page PAGE]
                                           [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--search <search>

--sort <sort>

--page <page>

--per-page <per_page>

--all

gitlab group-billable-member-membership

```
usage: gitlab group-billable-member-membership [-h] {list} ...
```

-h, --help

show this help message and exit

gitlab group-billable-member-membership list

```
usage: gitlab group-billable-member-membership list [-h] [--sudo SUDO]
                                                    --group-id GROUP_ID
                                                    --user-id USER_ID
                                                    [--page PAGE]
                                                    [--per-page PER_PAGE]
                                                    [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--user-id <user_id>

--page <page>

--per-page <per_page>

--all

gitlab group-board

```
usage: gitlab group-board [-h] {list,get,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab group-board create

```
usage: gitlab group-board create [-h] [--sudo SUDO] --group-id GROUP_ID --name
                                NAME
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--name <name>

gitlab group-board delete

```
usage: gitlab group-board delete [-h] [--sudo SUDO] --group-id GROUP_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-board get

```
usage: gitlab group-board get [-h] [--sudo SUDO] --group-id GROUP_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-board list

```
usage: gitlab group-board list [-h] [--sudo SUDO] --group-id GROUP_ID
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--page <page>

--per-page <per_page>

--all

gitlab group-board update

```
usage: gitlab group-board update [-h] [--sudo SUDO] --group-id GROUP_ID --id
                                   ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-board-list

```
usage: gitlab group-board-list [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab group-board-list create

```
usage: gitlab group-board-list create [-h] [--sudo SUDO] --group-id GROUP_ID
                                         --board-id BOARD_ID --label-id LABEL_ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--board-id <board_id>

--label-id <label_id>

gitlab group-board-list delete

```
usage: gitlab group-board-list delete [-h] [--sudo SUDO] --group-id GROUP_ID
                                         --board-id BOARD_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--board-id <board_id>

--id <id>

gitlab group-board-list get

```
usage: gitlab group-board-list get [-h] [--sudo SUDO] --group-id GROUP_ID
                                   --board-id BOARD_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--board-id <board_id>

--id <id>

gitlab group-board-list list

```
usage: gitlab group-board-list list [-h] [--sudo SUDO] --group-id GROUP_ID
                                   --board-id BOARD_ID [--page PAGE]
                                   [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--board-id <board_id>

--page <page>

--per-page <per_page>

--all

gitlab group-board-list update

```
usage: gitlab group-board-list update [-h] [--sudo SUDO] --group-id GROUP_ID
                                   --board-id BOARD_ID --id ID --position
                                   POSITION
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--board-id <board_id>

--id <id>

--position <position>

gitlab group-cluster

```
usage: gitlab group-cluster [-h] {list,get,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab group-cluster create

```
usage: gitlab group-cluster create [-h] [--sudo SUDO] --group-id GROUP_ID
                                   --name NAME
                                   --platform-kubernetes-attributes
                                   PLATFORM_KUBERNETES_ATTRIBUTES
                                   [--domain DOMAIN] [--enabled ENABLED]
                                   [--managed MANAGED]
                                   [--environment-scope ENVIRONMENT_SCOPE]
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--name <name>

--platform-kubernetes-attributes <platform_kubernetes_attributes>

--domain <domain>

--enabled <enabled>

--managed <managed>

--environment-scope <environment_scope>

gitlab group-cluster delete

```
usage: gitlab group-cluster delete [-h] [--sudo SUDO] --group-id GROUP_ID --id
                                   ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-cluster get

```
usage: gitlab group-cluster get [-h] [--sudo SUDO] --group-id GROUP_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-cluster list

```
usage: gitlab group-cluster list [-h] [--sudo SUDO] --group-id GROUP_ID
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--page <page>

--per-page <per_page>

--all

gitlab group-cluster update

```
usage: gitlab group-cluster update [-h] [--sudo SUDO] --group-id GROUP_ID --id
                                   ID [--name NAME] [--domain DOMAIN]
                                   [--management-project-id MANAGEMENT_PROJECT_ID]
                                   [--platform-kubernetes-attributes PLATFORM_KUBERNETES_
                                   ↪ATTRIBUTES]
                                   [--environment-scope ENVIRONMENT_SCOPE]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

--name <name>

--domain <domain>

--management-project-id <management_project_id>

--platform-kubernetes-attributes <platform_kubernetes_attributes>

--environment-scope <environment_scope>

gitlab group-custom-attribute

```
usage: gitlab group-custom-attribute [-h] {list,get,delete} ...
```

-h, --help

show this help message and exit

gitlab group-custom-attribute delete

```
usage: gitlab group-custom-attribute delete [-h] [--sudo SUDO] --group-id
                                             GROUP_ID --key KEY
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--key <key>

gitlab group-custom-attribute get

```
usage: gitlab group-custom-attribute get [-h] [--sudo SUDO] --group-id
                                           GROUP_ID --key KEY
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--key <key>

gitlab group-custom-attribute list

```
usage: gitlab group-custom-attribute list [-h] [--sudo SUDO] --group-id
                                           GROUP_ID [--page PAGE]
                                           [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>
--page <page>
--per-page <per_page>
--all

gitlab group-deploy-token

```
usage: gitlab group-deploy-token [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab group-deploy-token create

```
usage: gitlab group-deploy-token create [-h] [--sudo SUDO] --group-id GROUP_ID
                                         --name NAME --scopes SCOPES
                                         [--expires-at EXPIRES_AT]
                                         [--username USERNAME]
```

-h, --help
show this help message and exit

--sudo <sudo>
--group-id <group_id>
--name <name>
--scopes <scopes>
--expires-at <expires_at>
--username <username>

gitlab group-deploy-token delete

```
usage: gitlab group-deploy-token delete [-h] [--sudo SUDO] --group-id GROUP_ID
                                         --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>
--group-id <group_id>
--id <id>

gitlab group-deploy-token get

```
usage: gitlab group-deploy-token get [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-deploy-token list

```
usage: gitlab group-deploy-token list [-h] [--sudo SUDO] --group-id GROUP_ID
                                     [--page PAGE] [--per-page PER_PAGE]
                                     [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--page <page>

--per-page <per_page>

--all

gitlab group-descendant-group

```
usage: gitlab group-descendant-group [-h] {list} ...
```

-h, --help
show this help message and exit

gitlab group-descendant-group list

```
usage: gitlab group-descendant-group list [-h] [--sudo SUDO] --group-id
GROUP_ID [--skip-groups SKIP_GROUPS]
         [--all-available ALL_AVAILABLE]
         [--search SEARCH]
         [--order-by ORDER_BY] [--sort SORT]
         [--statistics STATISTICS]
         [--owned OWNED]
         [--with-custom-attributes WITH_CUSTOM_
↪ATTRIBUTES]
```

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```
[--min-access-level MIN_ACCESS_LEVEL]
[--page PAGE] [--per-page PER_PAGE]
[--all]
```

```
-h, --help
    show this help message and exit

--sudo <sudo>

--group-id <group_id>

--skip-groups <skip_groups>

--all-available <all_available>

--search <search>

--order-by <order_by>

--sort <sort>

--statistics <statistics>

--owned <owned>

--with-custom-attributes <with_custom_attributes>

--min-access-level <min_access_level>

--page <page>

--per-page <per_page>

--all
```

gitlab group-epic

```
usage: gitlab group-epic [-h] {list,get,create,update,delete} ...
```

```
-h, --help
    show this help message and exit
```

gitlab group-epic create

```
usage: gitlab group-epic create [-h] [--sudo SUDO] --group-id GROUP_ID --title
                                TITLE [--labels LABELS]
                                [--description DESCRIPTION]
                                [--start-date START_DATE]
                                [--end-date END_DATE]
```

```
-h, --help
    show this help message and exit
```

```

--sudo <sudo>
--group-id <group_id>
--title <title>
--labels <labels>
--description <description>
--start-date <start_date>
--end-date <end_date>

```

gitlab group-epic delete

```
usage: gitlab group-epic delete [-h] [--sudo SUDO] --group-id GROUP_ID --iid
                                IID
```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--group-id <group_id>
--iid <iid>

```

gitlab group-epic get

```
usage: gitlab group-epic get [-h] [--sudo SUDO] --group-id GROUP_ID --iid IID
```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--group-id <group_id>
--iid <iid>

```

gitlab group-epic list

```
usage: gitlab group-epic list [-h] [--sudo SUDO] --group-id GROUP_ID
                               [--author-id AUTHOR_ID] [--labels LABELS]
                               [--order-by ORDER_BY] [--sort SORT]
                               [--search SEARCH] [--page PAGE]
                               [--per-page PER_PAGE] [--all]
```

```

-h, --help
    show this help message and exit
--sudo <sudo>

```

--group-id <group_id>
--author-id <author_id>
--labels <labels>
--order-by <order_by>
--sort <sort>
--search <search>
--page <page>
--per-page <per_page>
--all

gitlab group-epic update

```
usage: gitlab group-epic update [-h] [--sudo SUDO] --group-id GROUP_ID --iid
                                IID [--title TITLE] [--labels LABELS]
                                [--description DESCRIPTION]
                                [--start-date START_DATE]
                                [--end-date END_DATE]
```

-h, --help
show this help message and exit
--sudo <sudo>
--group-id <group_id>
--iid <iid>
--title <title>
--labels <labels>
--description <description>
--start-date <start_date>
--end-date <end_date>

gitlab group-epic-award-emoji

```
usage: gitlab group-epic-award-emoji [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab group-epic-award-emoji create

```
usage: gitlab group-epic-award-emoji create [-h] [--sudo SUDO] --group-id
                                           GROUP_ID --epic-iid EPIC_IID
                                           --name NAME
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--name <name>

gitlab group-epic-award-emoji delete

```
usage: gitlab group-epic-award-emoji delete [-h] [--sudo SUDO] --group-id
                                           GROUP_ID --epic-iid EPIC_IID --id
                                           ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--id <id>

gitlab group-epic-award-emoji get

```
usage: gitlab group-epic-award-emoji get [-h] [--sudo SUDO] --group-id
                                           GROUP_ID --epic-iid EPIC_IID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--id <id>

gitlab group-epic-award-emoji list

```
usage: gitlab group-epic-award-emoji list [-h] [--sudo SUDO] --group-id
                                           GROUP_ID --epic-iid EPIC_IID
                                           [--page PAGE] [--per-page PER_PAGE]
                                           [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--page <page>

--per-page <per_page>

--all

gitlab group-epic-discussion-note

```
usage: gitlab group-epic-discussion-note [-h] {get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab group-epic-discussion-note create

```
usage: gitlab group-epic-discussion-note create [-h] [--sudo SUDO] --group-id
                                                  GROUP_ID --epic-iid EPIC_IID
                                                  --discussion-id DISCUSSION_ID
                                                  --body BODY
                                                  [--created-at CREATED_AT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--discussion-id <discussion_id>

--body <body>

--created-at <created_at>

gitlab group-epic-discussion-note delete

```
usage: gitlab group-epic-discussion-note delete [-h] [--sudo SUDO] --group-id
                                                GROUP_ID --epic-iid EPIC_IID
                                                --discussion-id DISCUSSION_ID
                                                --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--discussion-id <discussion_id>

--id <id>

gitlab group-epic-discussion-note get

```
usage: gitlab group-epic-discussion-note get [-h] [--sudo SUDO] --group-id
                                                GROUP_ID --epic-iid EPIC_IID
                                                --discussion-id DISCUSSION_ID
                                                --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--discussion-id <discussion_id>

--id <id>

gitlab group-epic-discussion-note update

```
usage: gitlab group-epic-discussion-note update [-h] [--sudo SUDO] --group-id
                                                GROUP_ID --epic-iid EPIC_IID
                                                --discussion-id DISCUSSION_ID
                                                --id ID --body BODY
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>
--discussion-id <discussion_id>
--id <id>
--body <body>

gitlab group-epic-issue

```
usage: gitlab group-epic-issue [-h] {list,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab group-epic-issue create

```
usage: gitlab group-epic-issue create [-h] [--sudo SUDO] --group-id GROUP_ID  
                                         --epic-iid EPIC_IID --issue-id ISSUE_ID
```

-h, --help
show this help message and exit

--sudo <sudo>
--group-id <group_id>
--epic-iid <epic_iid>
--issue-id <issue_id>

gitlab group-epic-issue delete

```
usage: gitlab group-epic-issue delete [-h] [--sudo SUDO] --group-id GROUP_ID  
                                         --epic-iid EPIC_IID --epic-issue-id  
                                         EPIC_ISSUE_ID
```

-h, --help
show this help message and exit

--sudo <sudo>
--group-id <group_id>
--epic-iid <epic_iid>
--epic-issue-id <epic_issue_id>

gitlab group-epic-issue list

```
usage: gitlab group-epic-issue list [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --epic-iid EPIC_IID [--page PAGE]
                                     [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>**--group-id** <group_id>**--epic-iid** <epic_iid>**--page** <page>**--per-page** <per_page>**--all**

gitlab group-epic-issue update

```
usage: gitlab group-epic-issue update [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --epic-iid EPIC_IID --epic-issue-id
                                     EPIC_ISSUE_ID
                                     [--move-before-id MOVE_BEFORE_ID]
                                     [--move-after-id MOVE_AFTER_ID]
```

-h, --help

show this help message and exit

--sudo <sudo>**--group-id** <group_id>**--epic-iid** <epic_iid>**--epic-issue-id** <epic_issue_id>**--move-before-id** <move_before_id>**--move-after-id** <move_after_id>

gitlab group-epic-note

```
usage: gitlab group-epic-note [-h] {list,get,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab group-epic-note create

```
usage: gitlab group-epic-note create [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --epic-iid EPIC_IID --body BODY
                                     [--created-at CREATED_AT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--body <body>

--created-at <created_at>

gitlab group-epic-note delete

```
usage: gitlab group-epic-note delete [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --epic-iid EPIC_IID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--id <id>

gitlab group-epic-note get

```
usage: gitlab group-epic-note get [-h] [--sudo SUDO] --group-id GROUP_ID
                                   --epic-iid EPIC_IID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--id <id>

gitlab group-epic-note list

```
usage: gitlab group-epic-note list [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --epic-iid EPIC_IID [--page PAGE]
                                     [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--page <page>

--per-page <per_page>

--all

gitlab group-epic-note update

```
usage: gitlab group-epic-note update [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --epic-iid EPIC_IID --id ID --body BODY
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--id <id>

--body <body>

gitlab group-epic-note-award-emoji

```
usage: gitlab group-epic-note-award-emoji [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab group-epic-note-award-emoji create

```
usage: gitlab group-epic-note-award-emoji create [-h] [--sudo SUDO] --group-id
                                                GROUP_ID --epic-iid EPIC_IID
                                                --note-id NOTE_ID --name NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--note-id <note_id>

--name <name>

gitlab group-epic-note-award-emoji delete

```
usage: gitlab group-epic-note-award-emoji delete [-h] [--sudo SUDO] --group-id
                                                GROUP_ID --epic-iid EPIC_IID
                                                --note-id NOTE_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--note-id <note_id>

--id <id>

gitlab group-epic-note-award-emoji get

```
usage: gitlab group-epic-note-award-emoji get [-h] [--sudo SUDO] --group-id
                                                GROUP_ID --epic-iid EPIC_IID
                                                --note-id NOTE_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-iid <epic_iid>

--note-id <note_id>

--id <id>

gitlab group-epic-note-award-emoji list

```
usage: gitlab group-epic-note-award-emoji list [-h] [--sudo SUDO] --group-id
GROUP_ID --epic-iid EPIC_IID
--note-id NOTE_ID [--page PAGE]
[--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>**--group-id** <group_id>**--epic-iid** <epic_iid>**--note-id** <note_id>**--page** <page>**--per-page** <per_page>**--all**

gitlab group-epic-resource-label-event

```
usage: gitlab group-epic-resource-label-event [-h] {list,get} ...
```

-h, --help

show this help message and exit

gitlab group-epic-resource-label-event get

```
usage: gitlab group-epic-resource-label-event get [-h] [--sudo SUDO]
--group-id GROUP_ID
--epic-id EPIC_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>**--group-id** <group_id>**--epic-id** <epic_id>**--id** <id>

gitlab group-epic-resource-label-event list

```
usage: gitlab group-epic-resource-label-event list [-h] [--sudo SUDO]
                                                --group-id GROUP_ID
                                                --epic-id EPIC_ID
                                                [--page PAGE]
                                                [--per-page PER_PAGE]
                                                [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--epic-id <epic_id>

--page <page>

--per-page <per_page>

--all

gitlab group-export

```
usage: gitlab group-export [-h] {get,create,download} ...
```

-h, --help
show this help message and exit

gitlab group-export create

```
usage: gitlab group-export create [-h] [--sudo SUDO] --group-id GROUP_ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

gitlab group-export download

```
usage: gitlab group-export download [-h] --group-id GROUP_ID [--sudo SUDO]
```

-h, --help
show this help message and exit

--group-id <group_id>

--sudo <sudo>

gitlab group-export get

```
usage: gitlab group-export get [-h] [--sudo SUDO] --group-id GROUP_ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

gitlab group-hook

```
usage: gitlab group-hook [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab group-hook create

```
usage: gitlab group-hook create [-h] [--sudo SUDO] --group-id GROUP_ID --url
                                URL [--push-events PUSH_EVENTS]
                                [--issues-events ISSUES_EVENTS]
                                [--confidential-issues-events CONFIDENTIAL_ISSUES_EVENTS]
                                [--merge-requests-events MERGE_REQUESTS_EVENTS]
                                [--tag-push-events TAG_PUSH_EVENTS]
                                [--note-events NOTE_EVENTS]
                                [--confidential-note-events CONFIDENTIAL_NOTE_EVENTS]
                                [--job-events JOB_EVENTS]
                                [--pipeline-events PIPELINE_EVENTS]
                                [--wiki-page-events WIKI_PAGE_EVENTS]
                                [--deployment-events DEPLOYMENT_EVENTS]
                                [--releases-events RELEASES_EVENTS]
                                [--subgroup-events SUBGROUP_EVENTS]
                                [--enable-ssl-verification ENABLE_SSL_VERIFICATION]
                                [--token TOKEN]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--url <url>

--push-events <push_events>

--issues-events <issues_events>

--confidential-issues-events <confidential_issues_events>

--merge-requests-events <merge_requests_events>

```
--tag-push-events <tag_push_events>
--note-events <note_events>
--confidential-note-events <confidential_note_events>
--job-events <job_events>
--pipeline-events <pipeline_events>
--wiki-page-events <wiki_page_events>
--deployment-events <deployment_events>
--releases-events <releases_events>
--subgroup-events <subgroup_events>
--enable-ssl-verification <enable_ssl_verification>
--token <token>
```

gitlab group-hook delete

```
usage: gitlab group-hook delete [-h] [--sudo SUDO] --group-id GROUP_ID --id ID
```

```
-h, --help
    show this help message and exit
--sudo <sudo>
--group-id <group_id>
--id <id>
```

gitlab group-hook get

```
usage: gitlab group-hook get [-h] [--sudo SUDO] --group-id GROUP_ID --id ID
```

```
-h, --help
    show this help message and exit
--sudo <sudo>
--group-id <group_id>
--id <id>
```

gitlab group-hook list

```
usage: gitlab group-hook list [-h] [--sudo SUDO] --group-id GROUP_ID
                               [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--page <page>

--per-page <per_page>

--all

gitlab group-hook update

```
usage: gitlab group-hook update [-h] [--sudo SUDO] --group-id GROUP_ID --id ID
                                --url URL [--push-events PUSH_EVENTS]
                                [--issues-events ISSUES_EVENTS]
                                [--confidential-issues-events CONFIDENTIAL_ISSUES_EVENTS]
                                [--merge-requests-events MERGE_REQUESTS_EVENTS]
                                [--tag-push-events TAG_PUSH_EVENTS]
                                [--note-events NOTE_EVENTS]
                                [--confidential-note-events CONFIDENTIAL_NOTE_EVENTS]
                                [--job-events JOB_EVENTS]
                                [--pipeline-events PIPELINE_EVENTS]
                                [--wiki-page-events WIKI_PAGE_EVENTS]
                                [--deployment-events DEPLOYMENT_EVENTS]
                                [--releases-events RELEASES_EVENTS]
                                [--subgroup-events SUBGROUP_EVENTS]
                                [--enable-ssl-verification ENABLE_SSL_VERIFICATION]
                                [--token TOKEN]
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

--url <url>

--push-events <push_events>

--issues-events <issues_events>

--confidential-issues-events <confidential_issues_events>

--merge-requests-events <merge_requests_events>

```
--tag-push-events <tag_push_events>
--note-events <note_events>
--confidential-note-events <confidential_note_events>
--job-events <job_events>
--pipeline-events <pipeline_events>
--wiki-page-events <wiki_page_events>
--deployment-events <deployment_events>
--releases-events <releases_events>
--subgroup-events <subgroup_events>
--enable-ssl-verification <enable_ssl_verification>
--token <token>
```

gitlab group-import

```
usage: gitlab group-import [-h] {get} ...
```

```
-h, --help
    show this help message and exit
```

gitlab group-import get

```
usage: gitlab group-import get [-h] [--sudo SUDO] --group-id GROUP_ID
```

```
-h, --help
    show this help message and exit

--sudo <sudo>
--group-id <group_id>
```

gitlab group-issue

```
usage: gitlab group-issue [-h] {list} ...
```

```
-h, --help
    show this help message and exit
```

gitlab group-issue list

```
usage: gitlab group-issue list [-h] [--sudo SUDO] --group-id GROUP_ID
                               [--state STATE] [--labels LABELS]
                               [--milestone MILESTONE] [--order-by ORDER_BY]
                               [--sort SORT] [--iids IIDS]
                               [--author-id AUTHOR_ID]
                               [--assignee-id ASSIGNEE_ID]
                               [--my-reaction-emoji MY_REACTION_EMOJI]
                               [--search SEARCH]
                               [--created-after CREATED_AFTER]
                               [--created-before CREATED_BEFORE]
                               [--updated-after UPDATED_AFTER]
                               [--updated-before UPDATED_BEFORE] [--page PAGE]
                               [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--state <state>

--labels <labels>

--milestone <milestone>

--order-by <order_by>

--sort <sort>

--iids <iids>

--author-id <author_id>

--assignee-id <assignee_id>

--my-reaction-emoji <my_reaction_emoji>

--search <search>

--created-after <created_after>

--created-before <created_before>

--updated-after <updated_after>

--updated-before <updated_before>

--page <page>

--per-page <per_page>

--all

gitlab group-issues-statistics

```
usage: gitlab group-issues-statistics [-h] {get} ...
```

-h, --help

show this help message and exit

gitlab group-issues-statistics get

```
usage: gitlab group-issues-statistics get [-h] [--sudo SUDO] --group-id
                                           GROUP_ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

gitlab group-label

```
usage: gitlab group-label [-h]
                           {list,get,create,update,delete,subscribe,unsubscribe}
                           ...
```

-h, --help

show this help message and exit

gitlab group-label create

```
usage: gitlab group-label create [-h] [--sudo SUDO] --group-id GROUP_ID --name
                                  NAME --color COLOR
                                  [--description DESCRIPTION]
                                  [--priority PRIORITY]
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--name <name>

--color <color>

--description <description>

--priority <priority>

gitlab group-label delete

```
usage: gitlab group-label delete [-h] [--sudo SUDO] --group-id GROUP_ID --name
                                NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--name <name>

gitlab group-label get

```
usage: gitlab group-label get [-h] [--sudo SUDO] --group-id GROUP_ID --name
                                NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--name <name>

gitlab group-label list

```
usage: gitlab group-label list [-h] [--sudo SUDO] --group-id GROUP_ID
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--page <page>

--per-page <per_page>

--all

gitlab group-label subscribe

```
usage: gitlab group-label subscribe [-h] --group-id GROUP_ID [--sudo SUDO]
                                     --name NAME
```

-h, --help
show this help message and exit

--group-id <group_id>

--sudo <sudo>

--name <name>

gitlab group-label unsubscribe

```
usage: gitlab group-label unsubscribe [-h] --group-id GROUP_ID [--sudo SUDO]
                                     --name NAME
```

-h, --help
show this help message and exit

--group-id <group_id>

--sudo <sudo>

--name <name>

gitlab group-label update

```
usage: gitlab group-label update [-h] [--sudo SUDO] --group-id GROUP_ID --name
                                NAME [--new-name NEW_NAME] [--color COLOR]
                                [--description DESCRIPTION]
                                [--priority PRIORITY]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--name <name>

--new-name <new_name>

--color <color>

--description <description>

--priority <priority>

gitlab group-member

```
usage: gitlab group-member [-h] {list,get,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab group-member create

```
usage: gitlab group-member create [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --access-level ACCESS_LEVEL --user-id
                                     USER_ID [--expires-at EXPIRES_AT]
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--access-level <access_level>

--user-id <user_id>

--expires-at <expires_at>

gitlab group-member delete

```
usage: gitlab group-member delete [-h] [--sudo SUDO] --group-id GROUP_ID --id
                                   ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-member get

```
usage: gitlab group-member get [-h] [--sudo SUDO] --group-id GROUP_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-member list

```
usage: gitlab group-member list [-h] [--sudo SUDO] --group-id GROUP_ID
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--page <page>

--per-page <per_page>

--all

gitlab group-member update

```
usage: gitlab group-member update [-h] [--sudo SUDO] --group-id GROUP_ID --id
                                   ID --access-level ACCESS_LEVEL
                                   [--expires-at EXPIRES_AT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

--access-level <access_level>

--expires-at <expires_at>

gitlab group-member-all

```
usage: gitlab group-member-all [-h] {list,get} ...
```

-h, --help
show this help message and exit

gitlab group-member-all get

```
usage: gitlab group-member-all get [-h] [--sudo SUDO] --group-id GROUP_ID --id
                                   ID
```

-h, --help
show this help message and exit

```
--sudo <sudo>
--group-id <group_id>
--id <id>
```

gitlab group-member-all list

```
usage: gitlab group-member-all list [-h] [--sudo SUDO] --group-id GROUP_ID
                                     [--page PAGE] [--per-page PER_PAGE]
                                     [--all]
```

```
-h, --help
    show this help message and exit
--sudo <sudo>
--group-id <group_id>
--page <page>
--per-page <per_page>
--all
```

gitlab group-merge-request

```
usage: gitlab group-merge-request [-h] {list} ...
```

```
-h, --help
    show this help message and exit
```

gitlab group-merge-request list

```
usage: gitlab group-merge-request list [-h] [--sudo SUDO] --group-id GROUP_ID
                                     [--state STATE] [--order-by ORDER_BY]
                                     [--sort SORT] [--milestone MILESTONE]
                                     [--view VIEW] [--labels LABELS]
                                     [--created-after CREATED_AFTER]
                                     [--created-before CREATED_BEFORE]
                                     [--updated-after UPDATED_AFTER]
                                     [--updated-before UPDATED_BEFORE]
                                     [--scope SCOPE] [--author-id AUTHOR_ID]
                                     [--assignee-id ASSIGNEE_ID]
                                     [--approver-ids APPROVER_IDS]
                                     [--approved-by-ids APPROVED_BY_IDS]
                                     [--my-reaction-emoji MY_REACTION_EMOJI]
                                     [--source-branch SOURCE_BRANCH]
                                     [--target-branch TARGET_BRANCH]
                                     [--search SEARCH] [--wip WIP]
                                     [--page PAGE] [--per-page PER_PAGE]
                                     [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--state <state>

--order-by <order_by>

--sort <sort>

--milestone <milestone>

--view <view>

--labels <labels>

--created-after <created_after>

--created-before <created_before>

--updated-after <updated_after>

--updated-before <updated_before>

--scope <scope>

--author-id <author_id>

--assignee-id <assignee_id>

--approver-ids <approver_ids>

--approved-by-ids <approved_by_ids>

--my-reaction-emoji <my_reaction_emoji>

--source-branch <source_branch>

--target-branch <target_branch>

--search <search>

--wip <wip>

--page <page>

--per-page <per_page>

--all

gitlab group-milestone

```
usage: gitlab group-milestone [-h]
                               {list,get,create,update,delete,issues,merge-requests}
                               ...
```

-h, --help

show this help message and exit

gitlab group-milestone create

```
usage: gitlab group-milestone create [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --title TITLE [--description DESCRIPTION]
                                     [--due-date DUE_DATE]
                                     [--start-date START_DATE]
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--title <title>

--description <description>

--due-date <due_date>

--start-date <start_date>

gitlab group-milestone delete

```
usage: gitlab group-milestone delete [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-milestone get

```
usage: gitlab group-milestone get [-h] [--sudo SUDO] --group-id GROUP_ID --id
                                   ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

gitlab group-milestone issues

```
usage: gitlab group-milestone issues [-h] --group-id GROUP_ID [--sudo SUDO]
                                       --id ID
```

-h, --help
show this help message and exit

--group-id <group_id>

--sudo <sudo>

--id <id>

gitlab group-milestone list

```
usage: gitlab group-milestone list [-h] [--sudo SUDO] --group-id GROUP_ID
                                   [--iids IIDS] [--state STATE]
                                   [--search SEARCH] [--page PAGE]
                                   [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--iids <iids>

--state <state>

--search <search>

--page <page>

--per-page <per_page>

--all

gitlab group-milestone merge-requests

```
usage: gitlab group-milestone merge-requests [-h] --group-id GROUP_ID
                                             [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--group-id <group_id>

--sudo <sudo>

--id <id>

gitlab group-milestone update

```
usage: gitlab group-milestone update [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --id ID [--title TITLE]
                                     [--description DESCRIPTION]
                                     [--due-date DUE_DATE]
                                     [--start-date START_DATE]
                                     [--state-event STATE_EVENT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--id <id>

--title <title>

--description <description>

--due-date <due_date>

--start-date <start_date>

--state-event <state_event>

gitlab group-notification-settings

```
usage: gitlab group-notification-settings [-h] {get,update} ...
```

-h, --help
show this help message and exit

gitlab group-notification-settings get

```
usage: gitlab group-notification-settings get [-h] [--sudo SUDO] --group-id
GROUP_ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

gitlab group-notification-settings update

```
usage: gitlab group-notification-settings update [-h] [--sudo SUDO] --group-id
GROUP_ID [--level LEVEL]
[--notification-email NOTIFICATION_
↪EMAIL]
[--new-note NEW_NOTE]
[--new-issue NEW_ISSUE]
[--reopen-issue REOPEN_ISSUE]
[--close-issue CLOSE_ISSUE]
[--reassign-issue REASSIGN_ISSUE]
[--new-merge-request NEW_MERGE_REQUEST]
[--reopen-merge-request REOPEN_MERGE_
↪REQUEST]
[--close-merge-request CLOSE_MERGE_
↪REQUEST]
[--reassign-merge-request REASSIGN_
↪MERGE_REQUEST]
[--merge-merge-request MERGE_MERGE_
↪REQUEST]
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--level <level>

--notification-email <notification_email>

--new-note <new_note>

--new-issue <new_issue>

--reopen-issue <reopen_issue>

--close-issue <close_issue>

--reassign-issue <reassign_issue>

--new-merge-request <new_merge_request>

```

--reopen-merge-request <reopen_merge_request>

--close-merge-request <close_merge_request>

--reassign-merge-request <reassign_merge_request>

--merge-merge-request <merge_merge_request>

```

gitlab group-package

```
usage: gitlab group-package [-h] {list} ...
```

-h, --help
show this help message and exit

gitlab group-package list

```
usage: gitlab group-package list [-h] [--sudo SUDO] --group-id GROUP_ID
                                [--exclude-subgroups EXCLUDE_SUBGROUPS]
                                [--order-by ORDER_BY] [--sort SORT]
                                [--package-type PACKAGE_TYPE]
                                [--package-name PACKAGE_NAME] [--page PAGE]
                                [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

```

--sudo <sudo>

--group-id <group_id>

--exclude-subgroups <exclude_subgroups>

--order-by <order_by>

--sort <sort>

--package-type <package_type>

--package-name <package_name>

--page <page>

--per-page <per_page>

--all

```

gitlab group-project

```
usage: gitlab group-project [-h] {list} ...
```

-h, --help

show this help message and exit

gitlab group-project list

```
usage: gitlab group-project list [-h] [--sudo SUDO] --group-id GROUP_ID
                                [--archived ARCHIVED]
                                [--visibility VISIBILITY]
                                [--order-by ORDER_BY] [--sort SORT]
                                [--search SEARCH] [--simple SIMPLE]
                                [--owned OWNED] [--starred STARRED]
                                [--with-custom-attributes WITH_CUSTOM_ATTRIBUTES]
                                [--include-subgroups INCLUDE_SUBGROUPS]
                                [--with-issues-enabled WITH_ISSUES_ENABLED]
                                --with-merge-requests-enabled WITH_MERGE_REQUESTS_
↳ENABLED]
                                [--with-shared WITH_SHARED]
                                [--min-access-level MIN_ACCESS_LEVEL]
                                [--with-security-reports WITH_SECURITY_REPORTS]
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--group-id <group_id>

--archived <archived>

--visibility <visibility>

--order-by <order_by>

--sort <sort>

--search <search>

--simple <simple>

--owned <owned>

--starred <starred>

--with-custom-attributes <with_custom_attributes>

--include-subgroups <include_subgroups>

--with-issues-enabled <with_issues_enabled>

--with-merge-requests-enabled <with_merge_requests_enabled>

```

--with-shared <with_shared>
--min-access-level <min_access_level>
--with-security-reports <with_security_reports>
--page <page>
--per-page <per_page>
--all

```

gitlab group-runner

```
usage: gitlab group-runner [-h] {list} ...
```

```

-h, --help
    show this help message and exit

```

gitlab group-runner list

```

usage: gitlab group-runner list [-h] [--sudo SUDO] --group-id GROUP_ID
                                [--scope SCOPE] [--tag-list TAG_LIST]
                                [--page PAGE] [--per-page PER_PAGE] [--all]

```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--group-id <group_id>
--scope <scope>
--tag-list <tag_list>
--page <page>
--per-page <per_page>
--all

```

gitlab group-subgroup

```
usage: gitlab group-subgroup [-h] {list} ...
```

```

-h, --help
    show this help message and exit

```

gitlab group-subgroup list

```
usage: gitlab group-subgroup list [-h] [--sudo SUDO] --group-id GROUP_ID
                                   [--skip-groups SKIP_GROUPS]
                                   [--all-available ALL_AVAILABLE]
                                   [--search SEARCH] [--order-by ORDER_BY]
                                   [--sort SORT] [--statistics STATISTICS]
                                   [--owned OWNED]
                                   [--with-custom-attributes WITH_CUSTOM_ATTRIBUTES]
                                   [--min-access-level MIN_ACCESS_LEVEL]
                                   [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>**--group-id** <group_id>**--skip-groups** <skip_groups>**--all-available** <all_available>**--search** <search>**--order-by** <order_by>**--sort** <sort>**--statistics** <statistics>**--owned** <owned>**--with-custom-attributes** <with_custom_attributes>**--min-access-level** <min_access_level>**--page** <page>**--per-page** <per_page>**--all**

gitlab group-variable

```
usage: gitlab group-variable [-h] {list,get,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab group-variable create

```
usage: gitlab group-variable create [-h] [--sudo SUDO] --group-id GROUP_ID
                                   --key KEY --value VALUE
                                   [--protected PROTECTED]
                                   [--variable-type VARIABLE_TYPE]
                                   [--masked MASKED]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--key <key>

--value <value>

--protected <protected>

--variable-type <variable_type>

--masked <masked>

gitlab group-variable delete

```
usage: gitlab group-variable delete [-h] [--sudo SUDO] --group-id GROUP_ID
                                   --key KEY
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--key <key>

gitlab group-variable get

```
usage: gitlab group-variable get [-h] [--sudo SUDO] --group-id GROUP_ID --key
                                   KEY
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--key <key>

gitlab group-variable list

```
usage: gitlab group-variable list [-h] [--sudo SUDO] --group-id GROUP_ID
                                   [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--page <page>

--per-page <per_page>

--all

gitlab group-variable update

```
usage: gitlab group-variable update [-h] [--sudo SUDO] --group-id GROUP_ID
                                     --key KEY --value VALUE
                                     [--protected PROTECTED]
                                     [--variable-type VARIABLE_TYPE]
                                     [--masked MASKED]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--key <key>

--value <value>

--protected <protected>

--variable-type <variable_type>

--masked <masked>

gitlab group-wiki

```
usage: gitlab group-wiki [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab group-wiki create

```
usage: gitlab group-wiki create [-h] [--sudo SUDO] --group-id GROUP_ID --title  
                                TITLE --content CONTENT [--format FORMAT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--title <title>

--content <content>

--format <format>

gitlab group-wiki delete

```
usage: gitlab group-wiki delete [-h] [--sudo SUDO] --group-id GROUP_ID --slug  
                                SLUG
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--slug <slug>

gitlab group-wiki get

```
usage: gitlab group-wiki get [-h] [--sudo SUDO] --group-id GROUP_ID --slug  
                               SLUG
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--slug <slug>

gitlab group-wiki list

```
usage: gitlab group-wiki list [-h] [--sudo SUDO] --group-id GROUP_ID
                               [--with-content WITH_CONTENT] [--page PAGE]
                               [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--with-content <with_content>

--page <page>

--per-page <per_page>

--all

gitlab group-wiki update

```
usage: gitlab group-wiki update [-h] [--sudo SUDO] --group-id GROUP_ID --slug
                                SLUG [--title TITLE] [--content CONTENT]
                                [--format FORMAT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--group-id <group_id>

--slug <slug>

--title <title>

--content <content>

--format <format>

gitlab hook

```
usage: gitlab hook [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab hook create

```
usage: gitlab hook create [-h] [--sudo SUDO] --url URL
```

-h, --help
show this help message and exit

--sudo <sudo>

--url <url>

gitlab hook delete

```
usage: gitlab hook delete [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab hook get

```
usage: gitlab hook get [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab hook list

```
usage: gitlab hook list [-h] [--sudo SUDO] [--page PAGE] [--per-page PER_PAGE]
                        [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab issue

```
usage: gitlab issue [-h] {list,get} ...
```

-h, --help

show this help message and exit

gitlab issue get

```
usage: gitlab issue get [-h] [--sudo SUDO] --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--id <id>

gitlab issue list

```
usage: gitlab issue list [-h] [--sudo SUDO] [--state STATE] [--labels LABELS]
                        [--milestone MILESTONE] [--scope SCOPE]
                        [--author-id AUTHOR_ID] [--assignee-id ASSIGNEE_ID]
                        [--my-reaction-emoji MY_REACTION_EMOJI] [--iids IIDS]
                        [--order-by ORDER_BY] [--sort SORT] [--search SEARCH]
                        [--created-after CREATED_AFTER]
                        [--created-before CREATED_BEFORE]
                        [--updated-after UPDATED_AFTER]
                        [--updated-before UPDATED_BEFORE] [--page PAGE]
                        [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--state <state>

--labels <labels>

--milestone <milestone>

--scope <scope>

--author-id <author_id>

--assignee-id <assignee_id>

--my-reaction-emoji <my_reaction_emoji>

--iids <iids>

--order-by <order_by>

```
--sort <sort>
--search <search>
--created-after <created_after>
--created-before <created_before>
--updated-after <updated_after>
--updated-before <updated_before>
--page <page>
--per-page <per_page>
--all
```

gitlab issues-statistics

```
usage: gitlab issues-statistics [-h] {get} ...
```

-h, --help
show this help message and exit

gitlab issues-statistics get

```
usage: gitlab issues-statistics get [-h] [--sudo SUDO]
```

-h, --help
show this help message and exit

--sudo <sudo>

gitlab key

```
usage: gitlab key [-h] {get} ...
```

-h, --help
show this help message and exit

gitlab key get

```
usage: gitlab key get [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab ldap-group

```
usage: gitlab ldap-group [-h] {list} ...
```

-h, --help

show this help message and exit

gitlab ldap-group list

```
usage: gitlab ldap-group list [-h] [--sudo SUDO] [--search SEARCH]
                             [--provider PROVIDER] [--page PAGE]
                             [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--search <search>

--provider <provider>

--page <page>

--per-page <per_page>

--all

gitlab license

```
usage: gitlab license [-h] {list,get} ...
```

-h, --help

show this help message and exit

gitlab license get

```
usage: gitlab license get [-h] [--sudo SUDO] --key KEY [--project PROJECT]
                          [--fullname FULLNAME]
```

-h, --help

show this help message and exit

--sudo <sudo>

--key <key>

--project <project>

--fullname <fullname>

gitlab license list

```
usage: gitlab license list [-h] [--sudo SUDO] [--popular POPULAR]
                        [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--popular <popular>

--page <page>

--per-page <per_page>

--all

gitlab merge-request

```
usage: gitlab merge-request [-h] {list} ...
```

-h, --help
show this help message and exit

gitlab merge-request list

```
usage: gitlab merge-request list [-h] [--sudo SUDO] [--state STATE]
                                [--order-by ORDER_BY] [--sort SORT]
                                [--milestone MILESTONE] [--view VIEW]
                                [--labels LABELS]
                                [--with-labels-details WITH_LABELS_DETAILS]
                                [--with-merge-status-recheck WITH_MERGE_STATUS_RECHECK]
                                [--created-after CREATED_AFTER]
                                [--created-before CREATED_BEFORE]
                                [--updated-after UPDATED_AFTER]
                                [--updated-before UPDATED_BEFORE]
                                [--scope SCOPE] [--author-id AUTHOR_ID]
                                [--author-username AUTHOR_USERNAME]
                                [--assignee-id ASSIGNEE_ID]
                                [--approver-ids APPROVER_IDS]
                                [--approved-by-ids APPROVED_BY_IDS]
                                [--reviewer-id REVIEWER_ID]
                                [--reviewer-username REVIEWER_USERNAME]
                                [--my-reaction-emoji MY_REACTION_EMOJI]
                                [--source-branch SOURCE_BRANCH]
                                [--target-branch TARGET_BRANCH]
                                [--search SEARCH] [--in IN] [--wip WIP]
                                [--not NOT] [--environment ENVIRONMENT]
                                [--deployed-before DEPLOYED_BEFORE]
                                [--deployed-after DEPLOYED_AFTER]
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--state <state>

--order-by <order_by>

--sort <sort>

--milestone <milestone>

--view <view>

--labels <labels>

--with-labels-details <with_labels_details>

--with-merge-status-recheck <with_merge_status_recheck>

--created-after <created_after>

--created-before <created_before>

--updated-after <updated_after>

--updated-before <updated_before>

--scope <scope>

--author-id <author_id>

--author-username <author_username>

--assignee-id <assignee_id>

--approver-ids <approver_ids>

--approved-by-ids <approved_by_ids>

--reviewer-id <reviewer_id>

--reviewer-username <reviewer_username>

--my-reaction-emoji <my_reaction_emoji>

--source-branch <source_branch>

--target-branch <target_branch>

--search <search>

--in <in>

--wip <wip>

--not <not>

--environment <environment>

```
--deployed-before <deployed_before>
--deployed-after <deployed_after>
--page <page>
--per-page <per_page>
--all
```

gitlab namespace

```
usage: gitlab namespace [-h] {list,get} ...
```

```
-h, --help
    show this help message and exit
```

gitlab namespace get

```
usage: gitlab namespace get [-h] [--sudo SUDO] --id ID
```

```
-h, --help
    show this help message and exit

--sudo <sudo>
--id <id>
```

gitlab namespace list

```
usage: gitlab namespace list [-h] [--sudo SUDO] [--search SEARCH]
                             [--page PAGE] [--per-page PER_PAGE] [--all]
```

```
-h, --help
    show this help message and exit

--sudo <sudo>
--search <search>
--page <page>
--per-page <per_page>
--all
```

gitlab notification-settings

```
usage: gitlab notification-settings [-h] {get,update} ...
```

-h, --help

show this help message and exit

gitlab notification-settings get

```
usage: gitlab notification-settings get [-h] [--sudo SUDO]
```

-h, --help

show this help message and exit

--sudo <sudo>

gitlab notification-settings update

```
usage: gitlab notification-settings update [-h] [--sudo SUDO] [--level LEVEL]
                                           [--notification-email NOTIFICATION_EMAIL]
                                           [--new-note NEW_NOTE]
                                           [--new-issue NEW_ISSUE]
                                           [--reopen-issue REOPEN_ISSUE]
                                           [--close-issue CLOSE_ISSUE]
                                           [--reassign-issue REASSIGN_ISSUE]
                                           [--new-merge-request NEW_MERGE_REQUEST]
                                           [--reopen-merge-request REOPEN_MERGE_REQUEST]
                                           [--close-merge-request CLOSE_MERGE_REQUEST]
                                           [--reassign-merge-request REASSIGN_MERGE_
↪REQUEST]
                                           [--merge-merge-request MERGE_MERGE_REQUEST]
```

-h, --help

show this help message and exit

--sudo <sudo>

--level <level>

--notification-email <notification_email>

--new-note <new_note>

--new-issue <new_issue>

--reopen-issue <reopen_issue>

--close-issue <close_issue>

--reassign-issue <reassign_issue>

--new-merge-request <new_merge_request>

```

--reopen-merge-request <reopen_merge_request>
--close-merge-request <close_merge_request>
--reassign-merge-request <reassign_merge_request>
--merge-merge-request <merge_merge_request>

```

gitlab pages-domain

```
usage: gitlab pages-domain [-h] {list} ...
```

-h, --help
show this help message and exit

gitlab pages-domain list

```
usage: gitlab pages-domain list [-h] [--sudo SUDO] [--page PAGE]
                                [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab personal-access-token

```
usage: gitlab personal-access-token [-h] {list,delete} ...
```

-h, --help
show this help message and exit

gitlab personal-access-token delete

```
usage: gitlab personal-access-token delete [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab personal-access-token list

```
usage: gitlab personal-access-token list [-h] [--sudo SUDO]
                                         [--user-id USER_ID] [--page PAGE]
                                         [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--page <page>

--per-page <per_page>

--all

gitlab project

```
usage: gitlab project [-h]
                        {list,get,create,update,delete,artifacts,update-submodule,
↪ repository-tree,repository-blob,repository-raw-blob,repository-compare,repository-
↪ contributors,repository-archive,delete-merged-branches,create-fork-relation,delete-
↪ fork-relation,languages,star,unstar,archive,unarchive,share,unshare,trigger-pipeline,
↪ housekeeping,upload,snapshot,search,mirror-pull,transfer,transfer-project,artifact}
                        ...
```

-h, --help
show this help message and exit

gitlab project archive

```
usage: gitlab project archive [-h] --id ID
```

-h, --help
show this help message and exit

--id <id>

gitlab project artifact

```
usage: gitlab project artifact [-h] --id ID --ref-name REF_NAME
                               --artifact-path ARTIFACT_PATH --job JOB
```

-h, --help
show this help message and exit

--id <id>

```
--ref-name <ref_name>
--artifact-path <artifact_path>
--job <job>
```

gitlab project artifacts

```
usage: gitlab project artifacts [-h] --id ID --ref-name REF_NAME --job JOB
                                [--job-token JOB_TOKEN]
```

```
-h, --help
    show this help message and exit
--id <id>
--ref-name <ref_name>
--job <job>
--job-token <job_token>
```

gitlab project create

```
usage: gitlab project create [-h] [--sudo SUDO] [--name NAME] [--path PATH]
                             [--allow-merge-on-skipped-pipeline ALLOW_MERGE_ON_SKIPPED_
↳PIPELINE]
                             [--analytics-access-level ANALYTICS_ACCESS_LEVEL]
                             [--approvals-before-merge APPROVALS_BEFORE_MERGE]
                             [--auto-cancel-pending-pipelines AUTO_CANCEL_PENDING_
↳PIPELINES]
                             [--auto-devops-deploy-strategy AUTO_DEVOPS_DEPLOY_STRATEGY]
                             [--auto-devops-enabled AUTO_DEVOPS_ENABLED]
                             [--autoclose-referenced-issues AUTOCLOSE_REFERENCED_ISSUES]
                             [--avatar AVATAR]
                             [--build-coverage-regex BUILD_COVERAGE_REGEX]
                             [--build-git-strategy BUILD_GIT_STRATEGY]
                             [--build-timeout BUILD_TIMEOUT]
                             [--builds-access-level BUILDS_ACCESS_LEVEL]
                             [--ci-config-path CI_CONFIG_PATH]
                             [--container-expiration-policy-attributes CONTAINER_
↳EXPIRATION_POLICY_ATTRIBUTES]
                             [--container-registry-enabled CONTAINER_REGISTRY_ENABLED]
                             [--default-branch DEFAULT_BRANCH]
                             [--description DESCRIPTION]
                             [--emails-disabled EMAILS_DISABLED]
                             [--external-authorization-classification-label EXTERNAL_
↳AUTHORIZATION_CLASSIFICATION_LABEL]
                             [--forking-access-level FORKING_ACCESS_LEVEL]
                             [--group-with-project-templates-id GROUP_WITH_PROJECT_
↳TEMPLATES_ID]
                             [--import-url IMPORT_URL]
```

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```

[--initialize-with-readme INITIALIZE_WITH_README]
[--issues-access-level ISSUES_ACCESS_LEVEL]
[--issues-enabled ISSUES_ENABLED]
[--jobs-enabled JOBS_ENABLED]
[--lfs-enabled LFS_ENABLED]
[--merge-method MERGE_METHOD]
[--merge-requests-access-level MERGE_REQUESTS_ACCESS_LEVEL]
[--merge-requests-enabled MERGE_REQUESTS_ENABLED]
[--mirror-trigger-builds MIRROR_TRIGGER_BUILDS]
[--mirror MIRROR] [--namespace-id NAMESPACE_ID]
[--operations-access-level OPERATIONS_ACCESS_LEVEL]
[--only-allow-merge-if-all-discussions-are-resolved ONLY_
↪ ALLOW_MERGE_IF_ALL_DISCUSSIONS_ARE_RESOLVED]
[--only-allow-merge-if-pipeline-succeeds ONLY_ALLOW_MERGE_
↪ IF_PIPELINE_SUCCEEDS]
[--packages-enabled PACKAGES_ENABLED]
[--pages-access-level PAGES_ACCESS_LEVEL]
[--requirements-access-level REQUIREMENTS_ACCESS_LEVEL]
[--printing-merge-request-link-enabled PRINTING_MERGE_
↪ REQUEST_LINK_ENABLED]
[--public-builds PUBLIC_BUILDS]
[--remove-source-branch-after-merge REMOVE_SOURCE_BRANCH_
↪ AFTER_MERGE]
[--repository-access-level REPOSITORY_ACCESS_LEVEL]
[--repository-storage REPOSITORY_STORAGE]
[--request-access-enabled REQUEST_ACCESS_ENABLED]
[--resolve-outdated-diff-discussions RESOLVE_OUTDATED_DIFF_
↪ DISCUSSIONS]
[--shared-runners-enabled SHARED_RUNNERS_ENABLED]
[--show-default-award-emojis SHOW_DEFAULT_AWARD_EMOJIS]
[--snippets-access-level SNIPPETS_ACCESS_LEVEL]
[--snippets-enabled SNIPPETS_ENABLED]
[--squash-option SQUASH_OPTION]
[--tag-list TAG_LIST]
[--template-name TEMPLATE_NAME]
[--template-project-id TEMPLATE_PROJECT_ID]
[--use-custom-template USE_CUSTOM_TEMPLATE]
[--visibility VISIBILITY]
[--wiki-access-level WIKI_ACCESS_LEVEL]
[--wiki-enabled WIKI_ENABLED]

```

-h, --help

show this help message and exit

--sudo <sudo>**--name** <name>**--path** <path>**--allow-merge-on-skipped-pipeline** <allow_merge_on_skipped_pipeline>**--analytics-access-level** <analytics_access_level>

```
--approvals-before-merge <approvals_before_merge>
--auto-cancel-pending-pipelines <auto_cancel_pending_pipelines>
--auto-devops-deploy-strategy <auto_devops_deploy_strategy>
--auto-devops-enabled <auto_devops_enabled>
--autoclose-referenced-issues <autoclose_referenced_issues>
--avatar <avatar>
--build-coverage-regex <build_coverage_regex>
--build-git-strategy <build_git_strategy>
--build-timeout <build_timeout>
--builds-access-level <builds_access_level>
--ci-config-path <ci_config_path>
--container-expiration-policy-attributes <container_expiration_policy_attributes>
--container-registry-enabled <container_registry_enabled>
--default-branch <default_branch>
--description <description>
--emails-disabled <emails_disabled>
--external-authorization-classification-label <external_authorization_classification_label>
--forking-access-level <forking_access_level>
--group-with-project-templates-id <group_with_project_templates_id>
--import-url <import_url>
--initialize-with-readme <initialize_with_readme>
--issues-access-level <issues_access_level>
--issues-enabled <issues_enabled>
--jobs-enabled <jobs_enabled>
--lfs-enabled <lfs_enabled>
--merge-method <merge_method>
--merge-requests-access-level <merge_requests_access_level>
--merge-requests-enabled <merge_requests_enabled>
--mirror-trigger-builds <mirror_trigger_builds>
--mirror <mirror>
--namespace-id <namespace_id>
```

```
--operations-access-level <operations_access_level>
--only-allow-merge-if-all-discussions-are-resolved <only_allow_merge_if_all_discussions_are_resolved>
--only-allow-merge-if-pipeline-succeeds <only_allow_merge_if_pipeline_succeeds>
--packages-enabled <packages_enabled>
--pages-access-level <pages_access_level>
--requirements-access-level <requirements_access_level>
--printing-merge-request-link-enabled <printing_merge_request_link_enabled>
--public-builds <public_builds>
--remove-source-branch-after-merge <remove_source_branch_after_merge>
--repository-access-level <repository_access_level>
--repository-storage <repository_storage>
--request-access-enabled <request_access_enabled>
--resolve-outdated-diff-discussions <resolve_outdated_diff_discussions>
--shared-runners-enabled <shared_runners_enabled>
--show-default-award-emojis <show_default_award_emojis>
--snippets-access-level <snippets_access_level>
--snippets-enabled <snippets_enabled>
--squash-option <squash_option>
--tag-list <tag_list>
--template-name <template_name>
--template-project-id <template_project_id>
--use-custom-template <use_custom_template>
--visibility <visibility>
--wiki-access-level <wiki_access_level>
--wiki-enabled <wiki_enabled>
```

gitlab project create-fork-relation

```
usage: gitlab project create-fork-relation [-h] --id ID --forked-from-id
                                           FORKED_FROM_ID
```

```
-h, --help
    show this help message and exit
--id <id>
--forked-from-id <forked_from_id>
```

gitlab project delete

```
usage: gitlab project delete [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab project delete-fork-relation

```
usage: gitlab project delete-fork-relation [-h] --id ID
```

-h, --help
show this help message and exit

--id <id>

gitlab project delete-merged-branches

```
usage: gitlab project delete-merged-branches [-h] --id ID
```

-h, --help
show this help message and exit

--id <id>

gitlab project get

```
usage: gitlab project get [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab project housekeeping

```
usage: gitlab project housekeeping [-h] --id ID
```

-h, --help
show this help message and exit

--id <id>

gitlab project languages

```
usage: gitlab project languages [-h] --id ID
```

-h, --help

show this help message and exit

--id <id>

gitlab project list

```
usage: gitlab project list [-h] [--sudo SUDO] [--archived ARCHIVED]
                           [--id-after ID_AFTER] [--id-before ID_BEFORE]
                           [--last-activity-after LAST_ACTIVITY_AFTER]
                           [--last-activity-before LAST_ACTIVITY_BEFORE]
                           [--membership MEMBERSHIP]
                           [--min-access-level MIN_ACCESS_LEVEL]
                           [--order-by ORDER_BY] [--owned OWNED]
                           [--repository-checksum-failed REPOSITORY_CHECKSUM_FAILED]
                           [--repository-storage REPOSITORY_STORAGE]
                           [--search-namespaces SEARCH_NAMESPACES]
                           [--search SEARCH] [--simple SIMPLE] [--sort SORT]
                           [--starred STARRED] [--statistics STATISTICS]
                           [--topic TOPIC] [--visibility VISIBILITY]
                           [--wiki-checksum-failed WIKI_CHECKSUM_FAILED]
                           [--with-custom-attributes WITH_CUSTOM_ATTRIBUTES]
                           [--with-issues-enabled WITH_ISSUES_ENABLED]
                           [--with-merge-requests-enabled WITH_MERGE_REQUESTS_ENABLED]
                           [--with-programming-language WITH_PROGRAMMING_LANGUAGE]
                           [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--archived <archived>

--id-after <id_after>

--id-before <id_before>

--last-activity-after <last_activity_after>

--last-activity-before <last_activity_before>

--membership <membership>

--min-access-level <min_access_level>

--order-by <order_by>

--owned <owned>

--repository-checksum-failed <repository_checksum_failed>

```

--repository-storage <repository_storage>
--search-namespaces <search_namespaces>
--search <search>
--simple <simple>
--sort <sort>
--starred <starred>
--statistics <statistics>
--topic <topic>
--visibility <visibility>
--wiki-checksum-failed <wiki_checksum_failed>
--with-custom-attributes <with_custom_attributes>
--with-issues-enabled <with_issues_enabled>
--with-merge-requests-enabled <with_merge_requests_enabled>
--with-programming-language <with_programming_language>
--page <page>
--per-page <per_page>
--all

```

gitlab project mirror-pull

```
usage: gitlab project mirror-pull [-h] --id ID
```

```

-h, --help
    show this help message and exit
--id <id>

```

gitlab project repository-archive

```
usage: gitlab project repository-archive [-h] --id ID [--sha SHA]
                                         [--format FORMAT]
```

```

-h, --help
    show this help message and exit
--id <id>
--sha <sha>
--format <format>

```

gitlab project repository-blob

```
usage: gitlab project repository-blob [-h] --id ID --sha SHA
```

-h, --help
show this help message and exit

--id <id>

--sha <sha>

gitlab project repository-compare

```
usage: gitlab project repository-compare [-h] --id ID --from- FROM_ --to TO
```

-h, --help
show this help message and exit

--id <id>

--from- <from_>

--to <to>

gitlab project repository-contributors

```
usage: gitlab project repository-contributors [-h] --id ID
```

-h, --help
show this help message and exit

--id <id>

gitlab project repository-raw-blob

```
usage: gitlab project repository-raw-blob [-h] --id ID --sha SHA
```

-h, --help
show this help message and exit

--id <id>

--sha <sha>

gitlab project repository-tree

```
usage: gitlab project repository-tree [-h] --id ID [--path PATH] [--ref REF]
                                     [--recursive RECURSIVE]
```

-h, --help
show this help message and exit

--id <id>

--path <path>

--ref <ref>

--recursive <recursive>

gitlab project search

```
usage: gitlab project search [-h] --id ID --scope SCOPE --search SEARCH
```

-h, --help
show this help message and exit

--id <id>

--scope <scope>

--search <search>

gitlab project share

```
usage: gitlab project share [-h] --id ID --group-id GROUP_ID --group-access
                             GROUP_ACCESS [--expires-at EXPIRES_AT]
```

-h, --help
show this help message and exit

--id <id>

--group-id <group_id>

--group-access <group_access>

--expires-at <expires_at>

gitlab project snapshot

```
usage: gitlab project snapshot [-h] --id ID [--wiki WIKI]
```

-h, --help

show this help message and exit

--id <id>

--wiki <wiki>

gitlab project star

```
usage: gitlab project star [-h] --id ID
```

-h, --help

show this help message and exit

--id <id>

gitlab project transfer

```
usage: gitlab project transfer [-h] --id ID --to-namespace TO_NAMESPACE
```

-h, --help

show this help message and exit

--id <id>

--to-namespace <to_namespace>

gitlab project transfer-project

```
usage: gitlab project transfer-project [-h] --id ID --to-namespace
                                         TO_NAMESPACE
```

-h, --help

show this help message and exit

--id <id>

--to-namespace <to_namespace>

gitlab project trigger-pipeline

```
usage: gitlab project trigger-pipeline [-h] --id ID --ref REF --token TOKEN
```

-h, --help

show this help message and exit

--id <id>

--ref <ref>

--token <token>

gitlab project unarchive

```
usage: gitlab project unarchive [-h] --id ID
```

-h, --help

show this help message and exit

--id <id>

gitlab project unshare

```
usage: gitlab project unshare [-h] --id ID --group-id GROUP_ID
```

-h, --help

show this help message and exit

--id <id>

--group-id <group_id>

gitlab project unstar

```
usage: gitlab project unstar [-h] --id ID
```

-h, --help

show this help message and exit

--id <id>

gitlab project update

```
usage: gitlab project update [-h] [--sudo SUDO] --id ID
                             [--allow-merge-on-skipped-pipeline ALLOW_MERGE_ON_SKIPPED_
↳PIPELINE]
                             [--analytics-access-level ANALYTICS_ACCESS_LEVEL]
                             [--approvals-before-merge APPROVALS_BEFORE_MERGE]
                             [--auto-cancel-pending-pipelines AUTO_CANCEL_PENDING_
↳PIPELINES]
                             [--auto-devops-deploy-strategy AUTO_DEVOPS_DEPLOY_STRATEGY]
                             [--auto-devops-enabled AUTO_DEVOPS_ENABLED]
                             [--autoclose-referenced-issues AUTOCLOSE_REFERENCED_ISSUES]
                             [--avatar AVATAR]
                             [--build-coverage-regex BUILD_COVERAGE_REGEX]
                             [--build-git-strategy BUILD_GIT_STRATEGY]
                             [--build-timeout BUILD_TIMEOUT]
                             [--builds-access-level BUILDS_ACCESS_LEVEL]
                             [--ci-config-path CI_CONFIG_PATH]
                             [--ci-default-git-depth CI_DEFAULT_GIT_DEPTH]
                             [--ci-forward-deployment-enabled CI_FORWARD_DEPLOYMENT_
↳ENABLED]
                             [--container-expiration-policy-attributes CONTAINER_
↳EXPIRATION_POLICY_ATTRIBUTES]
                             [--container-registry-enabled CONTAINER_REGISTRY_ENABLED]
                             [--default-branch DEFAULT_BRANCH]
                             [--description DESCRIPTION]
                             [--emails-disabled EMAILS_DISABLED]
                             [--external-authorization-classification-label EXTERNAL_
↳AUTHORIZATION_CLASSIFICATION_LABEL]
                             [--forking-access-level FORKING_ACCESS_LEVEL]
                             [--import-url IMPORT_URL]
                             [--issues-access-level ISSUES_ACCESS_LEVEL]
                             [--issues-enabled ISSUES_ENABLED]
                             [--jobs-enabled JOBS_ENABLED]
                             [--lfs-enabled LFS_ENABLED]
                             [--merge-method MERGE_METHOD]
                             [--merge-requests-access-level MERGE_REQUESTS_ACCESS_LEVEL]
                             [--merge-requests-enabled MERGE_REQUESTS_ENABLED]
                             [--mirror-overwrites-diverged-branches MIRROR_OVERWRITES_
↳DIVERGED_BRANCHES]
                             [--mirror-trigger-builds MIRROR_TRIGGER_BUILDS]
                             [--mirror-user-id MIRROR_USER_ID]
                             [--mirror MIRROR] [--name NAME]
                             [--operations-access-level OPERATIONS_ACCESS_LEVEL]
                             [--only-allow-merge-if-all-discussions-are-resolved ONLY_
↳ALLOW_MERGE_IF_ALL_DISCUSSIONS_ARE_RESOLVED]
                             [--only-allow-merge-if-pipeline-succeeds ONLY_ALLOW_MERGE_
↳IF_PIPELINE_SUCCEEDS]
                             [--only-mirror-protected-branches ONLY_MIRROR_PROTECTED_
↳BRANCHES]
                             [--packages-enabled PACKAGES_ENABLED]
                             [--pages-access-level PAGES_ACCESS_LEVEL]
                             [--requirements-access-level REQUIREMENTS_ACCESS_LEVEL]
```

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```

--restrict-user-defined-variables RESTRICT_USER_DEFINED_
↪VARIABLES]
--path PATH] [--public-builds PUBLIC_BUILDS]
--remove-source-branch-after-merge REMOVE_SOURCE_BRANCH_
↪AFTER_MERGE]
--repository-access-level REPOSITORY_ACCESS_LEVEL]
--repository-storage REPOSITORY_STORAGE]
--request-access-enabled REQUEST_ACCESS_ENABLED]
--resolve-outdated-diff-discussions RESOLVE_OUTDATED_DIFF_
↪DISCUSSIONS]
--service-desk-enabled SERVICE_DESK_ENABLED]
--shared-runners-enabled SHARED_RUNNERS_ENABLED]
--show-default-award-emojis SHOW_DEFAULT_AWARD_EMOJIS]
--snippets-access-level SNIPPETS_ACCESS_LEVEL]
--snippets-enabled SNIPPETS_ENABLED]
--squash-option SQUASH_OPTION]
--suggestion-commit-message SUGGESTION_COMMIT_MESSAGE]
--tag-list TAG_LIST] [--visibility VISIBILITY]
--wiki-access-level WIKI_ACCESS_LEVEL]
--wiki-enabled WIKI_ENABLED]
--issues-template ISSUES_TEMPLATE]
--merge-requests-template MERGE_REQUESTS_TEMPLATE]

```

-h, --help

show this help message and exit

--sudo <sudo>**--id** <id>**--allow-merge-on-skipped-pipeline** <allow_merge_on_skipped_pipeline>**--analytics-access-level** <analytics_access_level>**--approvals-before-merge** <approvals_before_merge>**--auto-cancel-pending-pipelines** <auto_cancel_pending_pipelines>**--auto-devops-deploy-strategy** <auto_devops_deploy_strategy>**--auto-devops-enabled** <auto_devops_enabled>**--autoclose-referenced-issues** <autoclose_referenced_issues>**--avatar** <avatar>**--build-coverage-regex** <build_coverage_regex>**--build-git-strategy** <build_git_strategy>**--build-timeout** <build_timeout>**--builds-access-level** <builds_access_level>**--ci-config-path** <ci_config_path>

```
--ci-default-git-depth <ci_default_git_depth>
--ci-forward-deployment-enabled <ci_forward_deployment_enabled>
--container-expiration-policy-attributes <container_expiration_policy_attributes>
--container-registry-enabled <container_registry_enabled>
--default-branch <default_branch>
--description <description>
--emails-disabled <emails_disabled>
--external-authorization-classification-label <external_authorization_classification_label>
--forking-access-level <forking_access_level>
--import-url <import_url>
--issues-access-level <issues_access_level>
--issues-enabled <issues_enabled>
--jobs-enabled <jobs_enabled>
--lfs-enabled <lfs_enabled>
--merge-method <merge_method>
--merge-requests-access-level <merge_requests_access_level>
--merge-requests-enabled <merge_requests_enabled>
--mirror-overwrites-diverged-branches <mirror_overwrites_diverged_branches>
--mirror-trigger-builds <mirror_trigger_builds>
--mirror-user-id <mirror_user_id>
--mirror <mirror>
--name <name>
--operations-access-level <operations_access_level>
--only-allow-merge-if-all-discussions-are-resolved <only_allow_merge_if_all_discussions_are_resolved>
--only-allow-merge-if-pipeline-succeeds <only_allow_merge_if_pipeline_succeeds>
--only-mirror-protected-branches <only_mirror_protected_branches>
--packages-enabled <packages_enabled>
--pages-access-level <pages_access_level>
--requirements-access-level <requirements_access_level>
--restrict-user-defined-variables <restrict_user_defined_variables>
--path <path>
```

```

--public-builds <public_builds>
--remove-source-branch-after-merge <remove_source_branch_after_merge>
--repository-access-level <repository_access_level>
--repository-storage <repository_storage>
--request-access-enabled <request_access_enabled>
--resolve-outdated-diff-discussions <resolve_outdated_diff_discussions>
--service-desk-enabled <service_desk_enabled>
--shared-runners-enabled <shared_runners_enabled>
--show-default-award-emojis <show_default_award_emojis>
--snippets-access-level <snippets_access_level>
--snippets-enabled <snippets_enabled>
--squash-option <squash_option>
--suggestion-commit-message <suggestion_commit_message>
--tag-list <tag_list>
--visibility <visibility>
--wiki-access-level <wiki_access_level>
--wiki-enabled <wiki_enabled>
--issues-template <issues_template>
--merge-requests-template <merge_requests_template>

```

gitlab project update-submodule

```
usage: gitlab project update-submodule [-h] --id ID --submodule SUBMODULE
                                     --branch BRANCH --commit-sha COMMIT_SHA
```

```

-h, --help
    show this help message and exit
--id <id>
--submodule <submodule>
--branch <branch>
--commit-sha <commit_sha>

```

gitlab project upload

```
usage: gitlab project upload [-h] --id ID --filename FILENAME --filepath
                             FILEPATH
```

-h, --help
show this help message and exit

--id <id>

--filename <filename>

--filepath <filepath>

gitlab project-access-request

```
usage: gitlab project-access-request [-h] {list,create,delete,approve} ...
```

-h, --help
show this help message and exit

gitlab project-access-request approve

```
usage: gitlab project-access-request approve [-h] --project-id PROJECT_ID
                                              [--sudo SUDO] --id ID
                                              [--access-level ACCESS_LEVEL]
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

--access-level <access_level>

gitlab project-access-request create

```
usage: gitlab project-access-request create [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

gitlab project-access-request delete

```
usage: gitlab project-access-request delete [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-access-request list

```
usage: gitlab project-access-request list [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID [--page PAGE]
                                           [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-access-token

```
usage: gitlab project-access-token [-h] {list,create,delete} ...
```

-h, --help
show this help message and exit

gitlab project-access-token create

```
usage: gitlab project-access-token create [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

gitlab project-access-token delete

```
usage: gitlab project-access-token delete [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-access-token list

```
usage: gitlab project-access-token list [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID [--page PAGE]
                                           [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-additional-statistics

```
usage: gitlab project-additional-statistics [-h] {get} ...
```

-h, --help
show this help message and exit

gitlab project-additional-statistics get

```
usage: gitlab project-additional-statistics get [-h] [--sudo SUDO]
                                                  --project-id PROJECT_ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

gitlab project-approval

```
usage: gitlab project-approval [-h] {get,update} ...
```

-h, --help

show this help message and exit

gitlab project-approval get

```
usage: gitlab project-approval get [-h] [--sudo SUDO] --project-id PROJECT_ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

gitlab project-approval update

```
usage: gitlab project-approval update [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID
                                         [--approvals-before-merge APPROVALS_BEFORE_MERGE]
                                         [--reset-approvals-on-push RESET_APPROVALS_ON_PUSH]
                                         [--disable-overriding-approvers-per-merge-request_
↳DISABLE_OVERRIDING_APPROVERS_PER_MERGE_REQUEST]
                                         [--merge-requests-author-approval MERGE_REQUESTS_
↳AUTHOR_APPROVAL]
                                         [--merge-requests-disable-committers-approval_
↳MERGE_REQUESTS_DISABLE_COMMITTERS_APPROVAL]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--approvals-before-merge <approvals_before_merge>

--reset-approvals-on-push <reset_approvals_on_push>

--disable-overriding-approvers-per-merge-request <disable_overriding_approvers_per_merge_request>

--merge-requests-author-approval <merge_requests_author_approval>

--merge-requests-disable-committers-approval <merge_requests_disable_committers_approval>

gitlab project-approval-rule

```
usage: gitlab project-approval-rule [-h] {list,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab project-approval-rule create

```
usage: gitlab project-approval-rule create [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --name NAME
                                           --approvals-required
                                           APPROVALS_REQUIRED
                                           [--user-ids USER_IDS]
                                           [--group-ids GROUP_IDS]
                                           [--protected-branch-ids PROTECTED_BRANCH_IDS]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

--approvals-required <approvals_required>

--user-ids <user_ids>

--group-ids <group_ids>

--protected-branch-ids <protected_branch_ids>

gitlab project-approval-rule delete

```
usage: gitlab project-approval-rule delete [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-approval-rule list

```
usage: gitlab project-approval-rule list [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID [--page PAGE]
                                           [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-approval-rule update

```
usage: gitlab project-approval-rule update [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-artifact

```
usage: gitlab project-artifact [-h] {delete,download,raw} ...
```

-h, --help
show this help message and exit

gitlab project-artifact delete

```
usage: gitlab project-artifact delete [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --ref-name REF_NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--ref-name <ref_name>

gitlab project-artifact download

```
usage: gitlab project-artifact download [-h] --project-id PROJECT_ID
                                         [--sudo SUDO] --ref-name REF_NAME
                                         --job JOB [--job-token JOB_TOKEN]
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--ref-name <ref_name>

--job <job>

--job-token <job_token>

gitlab project-artifact raw

```
usage: gitlab project-artifact raw [-h] --project-id PROJECT_ID [--sudo SUDO]
                                   --ref-name REF_NAME --artifact-path
                                   ARTIFACT_PATH --job JOB
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--ref-name <ref_name>

--artifact-path <artifact_path>

--job <job>

gitlab project-audit-event

```
usage: gitlab project-audit-event [-h] {list,get} ...
```

-h, --help
show this help message and exit

gitlab project-audit-event get

```
usage: gitlab project-audit-event get [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-audit-event list

```
usage: gitlab project-audit-event list [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID
                                     [--created-after CREATED_AFTER]
                                     [--created-before CREATED_BEFORE]
                                     [--page PAGE] [--per-page PER_PAGE]
                                     [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--created-after <created_after>

--created-before <created_before>

--page <page>

--per-page <per_page>

--all

gitlab project-badge

```
usage: gitlab project-badge [-h] {list,get,create,update,delete,render} ...
```

-h, --help
show this help message and exit

gitlab project-badge create

```
usage: gitlab project-badge create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --link-url LINK_URL --image-url IMAGE_URL
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--link-url <link_url>

--image-url <image_url>

gitlab project-badge delete

```
usage: gitlab project-badge delete [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-badge get

```
usage: gitlab project-badge get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-badge list

```
usage: gitlab project-badge list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-badge render

```
usage: gitlab project-badge render [-h] --project-id PROJECT_ID [--sudo SUDO]
                                   --id ID --link-url LINK_URL --image-url
                                   IMAGE_URL
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

--link-url <link_url>

--image-url <image_url>

gitlab project-badge update

```
usage: gitlab project-badge update [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --id ID [--link-url LINK_URL]
                                   [--image-url IMAGE_URL]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

--link-url <link_url>

--image-url <image_url>

gitlab project-board

```
usage: gitlab project-board [-h] {list,get,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab project-board create

```
usage: gitlab project-board create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --name NAME
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

gitlab project-board delete

```
usage: gitlab project-board delete [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-board get

```
usage: gitlab project-board get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-board list

```
usage: gitlab project-board list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-board update

```
usage: gitlab project-board update [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-board-list

```
usage: gitlab project-board-list [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-board-list create

```
usage: gitlab project-board-list create [-h] [--sudo SUDO] --project-id
                                PROJECT_ID --board-id BOARD_ID
                                --label-id LABEL_ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--board-id <board_id>

--label-id <label_id>

gitlab project-board-list delete

```
usage: gitlab project-board-list delete [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --board-id BOARD_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--board-id <board_id>

--id <id>

gitlab project-board-list get

```
usage: gitlab project-board-list get [-h] [--sudo SUDO] --project-id
                                       PROJECT_ID --board-id BOARD_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--board-id <board_id>

--id <id>

gitlab project-board-list list

```
usage: gitlab project-board-list list [-h] [--sudo SUDO] --project-id
                                       PROJECT_ID --board-id BOARD_ID
                                       [--page PAGE] [--per-page PER_PAGE]
                                       [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--board-id <board_id>

--page <page>

--per-page <per_page>
--all

gitlab project-board-list update

```
usage: gitlab project-board-list update [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --board-id BOARD_ID --id ID
                                         --position POSITION
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--board-id <board_id>

--id <id>

--position <position>

gitlab project-branch

```
usage: gitlab project-branch [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab project-branch create

```
usage: gitlab project-branch create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                     --branch BRANCH --ref REF
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--branch <branch>

--ref <ref>

gitlab project-branch delete

```
usage: gitlab project-branch delete [-h] [--sudo SUDO] --project-id PROJECT_ID
                                     --name NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

gitlab project-branch get

```
usage: gitlab project-branch get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --name NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

gitlab project-branch list

```
usage: gitlab project-branch list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-cluster

```
usage: gitlab project-cluster [-h] {list,get,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab project-cluster create

```
usage: gitlab project-cluster create [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --name NAME
                                     --platform-kubernetes-attributes
                                     PLATFORM_KUBERNETES_ATTRIBUTES
                                     [--domain DOMAIN] [--enabled ENABLED]
                                     [--managed MANAGED]
                                     [--environment-scope ENVIRONMENT_SCOPE]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

--platform-kubernetes-attributes <platform_kubernetes_attributes>

--domain <domain>

--enabled <enabled>

--managed <managed>

--environment-scope <environment_scope>

gitlab project-cluster delete

```
usage: gitlab project-cluster delete [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-cluster get

```
usage: gitlab project-cluster get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-cluster list

```
usage: gitlab project-cluster list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-cluster update

```
usage: gitlab project-cluster update [-h] [--sudo SUDO] --project-id
                                PROJECT_ID --id ID [--name NAME]
                                [--domain DOMAIN]
                                [--management-project-id MANAGEMENT_PROJECT_ID]
                                [--platform-kubernetes-attributes PLATFORM_
↪ KUBERNETES_ATTRIBUTES]
                                [--environment-scope ENVIRONMENT_SCOPE]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

--name <name>

--domain <domain>

```
--management-project-id <management_project_id>
--platform-kubernetes-attributes <platform_kubernetes_attributes>
--environment-scope <environment_scope>
```

gitlab project-commit

```
usage: gitlab project-commit [-h]
                             {list,get,create,diff,cherry-pick,refs,merge-requests,
                             ↪revert,signature}
                             ...
```

-h, --help
show this help message and exit

gitlab project-commit cherry-pick

```
usage: gitlab project-commit cherry-pick [-h] --project-id PROJECT_ID
                                         [--sudo SUDO] --id ID --branch BRANCH
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

--branch <branch>

gitlab project-commit create

```
usage: gitlab project-commit create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                     --branch BRANCH --commit-message
                                     COMMIT_MESSAGE --actions ACTIONS
                                     [--author-email AUTHOR_EMAIL]
                                     [--author-name AUTHOR_NAME]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--branch <branch>

--commit-message <commit_message>

--actions <actions>

--author-email <author_email>

--author-name <author_name>

gitlab project-commit diff

```
usage: gitlab project-commit diff [-h] --project-id PROJECT_ID [--sudo SUDO]
                                   --id ID
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-commit get

```
usage: gitlab project-commit get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-commit list

```
usage: gitlab project-commit list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   [--ref-name REF_NAME] [--since SINCE]
                                   [--until UNTIL] [--path PATH]
                                   [--with-stats WITH_STATS]
                                   [--first-parent FIRST_PARENT]
                                   [--order ORDER] [--trailers TRAILERS]
                                   [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--ref-name <ref_name>

--since <since>

```
--until <until>
--path <path>
--with-stats <with_stats>
--first-parent <first_parent>
--order <order>
--trailers <trailers>
--page <page>
--per-page <per_page>
--all
```

gitlab project-commit merge-requests

```
usage: gitlab project-commit merge-requests [-h] --project-id PROJECT_ID
                                           [--sudo SUDO] --id ID
```

```
-h, --help
    show this help message and exit
--project-id <project_id>
--sudo <sudo>
--id <id>
```

gitlab project-commit refs

```
usage: gitlab project-commit refs [-h] --project-id PROJECT_ID [--sudo SUDO]
                                   --id ID [--type TYPE]
```

```
-h, --help
    show this help message and exit
--project-id <project_id>
--sudo <sudo>
--id <id>
--type <type>
```

gitlab project-commit revert

```
usage: gitlab project-commit revert [-h] --project-id PROJECT_ID [--sudo SUDO]
                                     --id ID --branch BRANCH
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

--branch <branch>

gitlab project-commit signature

```
usage: gitlab project-commit signature [-h] --project-id PROJECT_ID
                                       [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-commit-comment

```
usage: gitlab project-commit-comment [-h] {list,create} ...
```

-h, --help
show this help message and exit

gitlab project-commit-comment create

```
usage: gitlab project-commit-comment create [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --commit-id COMMIT_ID
                                           --note NOTE [--path PATH]
                                           [--line LINE]
                                           [--line-type LINE_TYPE]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

```

--commit-id <commit_id>
--note <note>
--path <path>
--line <line>
--line-type <line_type>

```

gitlab project-commit-comment list

```

usage: gitlab project-commit-comment list [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --commit-id COMMIT_ID
                                           [--page PAGE] [--per-page PER_PAGE]
                                           [--all]

```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--project-id <project_id>
--commit-id <commit_id>
--page <page>
--per-page <per_page>
--all

```

gitlab project-commit-discussion

```

usage: gitlab project-commit-discussion [-h] {list,get,create} ...

```

```

-h, --help
    show this help message and exit

```

gitlab project-commit-discussion create

```

usage: gitlab project-commit-discussion create [-h] [--sudo SUDO] --project-id
                                                PROJECT_ID --commit-id
                                                COMMIT_ID --body BODY
                                                [--created-at CREATED_AT]

```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--project-id <project_id>

```

--commit-id <commit_id>
--body <body>
--created-at <created_at>

gitlab project-commit-discussion get

```
usage: gitlab project-commit-discussion get [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --commit-id COMMIT_ID
                                           --id ID
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--commit-id <commit_id>
--id <id>

gitlab project-commit-discussion list

```
usage: gitlab project-commit-discussion list [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --commit-id COMMIT_ID
                                           [--page PAGE]
                                           [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--commit-id <commit_id>
--page <page>
--per-page <per_page>
--all

gitlab project-commit-discussion-note

```
usage: gitlab project-commit-discussion-note [-h]
                                             {get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-commit-discussion-note create

```
usage: gitlab project-commit-discussion-note create [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --commit-id COMMIT_ID
                                                    --discussion-id
DISCUSSION_ID --body BODY
[--created-at CREATED_AT]
[--position POSITION]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--commit-id <commit_id>

--discussion-id <discussion_id>

--body <body>

--created-at <created_at>

--position <position>

gitlab project-commit-discussion-note delete

```
usage: gitlab project-commit-discussion-note delete [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --commit-id COMMIT_ID
                                                    --discussion-id
DISCUSSION_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--commit-id <commit_id>

--discussion-id <discussion_id>

--id <id>

gitlab project-commit-discussion-note get

```
usage: gitlab project-commit-discussion-note get [-h] [--sudo SUDO]
                                                --project-id PROJECT_ID
                                                --commit-id COMMIT_ID
                                                --discussion-id DISCUSSION_ID
                                                --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--commit-id <commit_id>

--discussion-id <discussion_id>

--id <id>

gitlab project-commit-discussion-note update

```
usage: gitlab project-commit-discussion-note update [-h] [--sudo SUDO]
                                                --project-id PROJECT_ID
                                                --commit-id COMMIT_ID
                                                --discussion-id
DISCUSSION_ID --id ID
                                                --body BODY
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--commit-id <commit_id>

--discussion-id <discussion_id>

--id <id>

--body <body>

gitlab project-commit-status

```
usage: gitlab project-commit-status [-h] {list,create} ...
```

-h, --help
show this help message and exit

gitlab project-commit-status create

```
usage: gitlab project-commit-status create [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --commit-id COMMIT_ID
                                           --state STATE
                                           [--description DESCRIPTION]
                                           [--name NAME] [--context CONTEXT]
                                           [--ref REF]
                                           [--target-url TARGET_URL]
                                           [--coverage COVERAGE]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--commit-id <commit_id>

--state <state>

--description <description>

--name <name>

--context <context>

--ref <ref>

--target-url <target_url>

--coverage <coverage>

gitlab project-commit-status list

```
usage: gitlab project-commit-status list [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --commit-id COMMIT_ID
                                           [--page PAGE] [--per-page PER_PAGE]
                                           [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--commit-id <commit_id>

--page <page>

--per-page <per_page>

--all

gitlab project-custom-attribute

```
usage: gitlab project-custom-attribute [-h] {list,get,delete} ...
```

-h, --help
show this help message and exit

gitlab project-custom-attribute delete

```
usage: gitlab project-custom-attribute delete [-h] [--sudo SUDO] --project-id  
PROJECT_ID --key KEY
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--key <key>

gitlab project-custom-attribute get

```
usage: gitlab project-custom-attribute get [-h] [--sudo SUDO] --project-id  
PROJECT_ID --key KEY
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--key <key>

gitlab project-custom-attribute list

```
usage: gitlab project-custom-attribute list [-h] [--sudo SUDO] --project-id  
PROJECT_ID [--page PAGE]  
[--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-deploy-token

```
usage: gitlab project-deploy-token [-h] {list,get,create,delete} ...
```

-h, --help

show this help message and exit

gitlab project-deploy-token create

```
usage: gitlab project-deploy-token create [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --name NAME --scopes
                                           SCOPES [--expires-at EXPIRES_AT]
                                           [--username USERNAME]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

--scopes <scopes>

--expires-at <expires_at>

--username <username>

gitlab project-deploy-token delete

```
usage: gitlab project-deploy-token delete [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-deploy-token get

```
usage: gitlab project-deploy-token get [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-deploy-token list

```
usage: gitlab project-deploy-token list [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID [--page PAGE]
                                         [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-deployment

```
usage: gitlab project-deployment [-h] {list,get,create,update} ...
```

-h, --help

show this help message and exit

gitlab project-deployment create

```
usage: gitlab project-deployment create [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --sha SHA --ref REF --tag
                                         TAG --status STATUS --environment
                                         ENVIRONMENT
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--sha <sha>

--ref <ref>

--tag <tag>

--status <status>

--environment <environment>

gitlab project-deployment get

```
usage: gitlab project-deployment get [-h] [--sudo SUDO] --project-id
PROJECT_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-deployment list

```
usage: gitlab project-deployment list [-h] [--sudo SUDO] --project-id
PROJECT_ID [--order-by ORDER_BY]
[--sort SORT]
[--updated-after UPDATED_AFTER]
[--updated-before UPDATED_BEFORE]
[--environment ENVIRONMENT]
[--status STATUS] [--page PAGE]
[--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--order-by <order_by>

--sort <sort>

--updated-after <updated_after>

--updated-before <updated_before>

--environment <environment>

--status <status>

--page <page>

--per-page <per_page>

--all

gitlab project-deployment update

```
usage: gitlab project-deployment update [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-deployment-merge-request

```
usage: gitlab project-deployment-merge-request [-h] {list} ...
```

-h, --help
show this help message and exit

gitlab project-deployment-merge-request list

```
usage: gitlab project-deployment-merge-request list [-h] [--sudo SUDO]
                                                    --deployment-id
                                                    DEPLOYMENT_ID --project-id
                                                    PROJECT_ID [--state STATE]
                                                    [--order-by ORDER_BY]
                                                    [--sort SORT]
                                                    [--milestone MILESTONE]
                                                    [--view VIEW]
                                                    [--labels LABELS]
                                                    [--with-labels-details WITH_LABELS_
↪DETAILS]
                                                    [--with-merge-status-recheck WITH_
↪MERGE_STATUS_RECHECK]
                                                    [--created-after CREATED_AFTER]
                                                    [--created-before CREATED_BEFORE]
                                                    [--updated-after UPDATED_AFTER]
                                                    [--updated-before UPDATED_BEFORE]
                                                    [--scope SCOPE]
                                                    [--author-id AUTHOR_ID]
                                                    [--author-username AUTHOR_USERNAME]
                                                    [--assignee-id ASSIGNEE_ID]
                                                    [--approver-ids APPROVER_IDS]
                                                    [--approved-by-ids APPROVED_BY_IDS]
                                                    [--reviewer-id REVIEWER_ID]
                                                    [--reviewer-username REVIEWER_
↪USERNAME]
                                                    [--my-reaction-emoji MY_REACTION_
↪EMOJI]
```

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```

[--source-branch SOURCE_BRANCH]
[--target-branch TARGET_BRANCH]
[--search SEARCH]
[--in IN] [--wip WIP]
[--not NOT]
[--environment ENVIRONMENT]
[--deployed-before DEPLOYED_BEFORE]
[--deployed-after DEPLOYED_AFTER]
[--page PAGE]
[--per-page PER_PAGE]
[--all]

```

-h, --help

show this help message and exit

--sudo <sudo>**--deployment-id** <deployment_id>**--project-id** <project_id>**--state** <state>**--order-by** <order_by>**--sort** <sort>**--milestone** <milestone>**--view** <view>**--labels** <labels>**--with-labels-details** <with_labels_details>**--with-merge-status-recheck** <with_merge_status_recheck>**--created-after** <created_after>**--created-before** <created_before>**--updated-after** <updated_after>**--updated-before** <updated_before>**--scope** <scope>**--author-id** <author_id>**--author-username** <author_username>**--assignee-id** <assignee_id>**--approver-ids** <approver_ids>**--approved-by-ids** <approved_by_ids>**--reviewer-id** <reviewer_id>

```
--reviewer-username <reviewer_username>
--my-reaction-emoji <my_reaction_emoji>
--source-branch <source_branch>
--target-branch <target_branch>
--search <search>
--in <in>
--wip <wip>
--not <not>
--environment <environment>
--deployed-before <deployed_before>
--deployed-after <deployed_after>
--page <page>
--per-page <per_page>
--all
```

gitlab project-environment

```
usage: gitlab project-environment [-h]
                                   {list,get,create,update,delete,stop} ...
```

-h, --help
show this help message and exit

gitlab project-environment create

```
usage: gitlab project-environment create [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --name NAME
                                         [--external-url EXTERNAL_URL]
```

-h, --help
show this help message and exit

```
--sudo <sudo>
--project-id <project_id>
--name <name>
--external-url <external_url>
```

gitlab project-environment delete

```
usage: gitlab project-environment delete [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-environment get

```
usage: gitlab project-environment get [-h] [--sudo SUDO] --project-id
                                       PROJECT_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-environment list

```
usage: gitlab project-environment list [-h] [--sudo SUDO] --project-id
                                       PROJECT_ID [--name NAME]
                                       [--search SEARCH] [--states STATES]
                                       [--page PAGE] [--per-page PER_PAGE]
                                       [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

--search <search>

--states <states>

--page <page>

--per-page <per_page>

--all

gitlab project-environment stop

```
usage: gitlab project-environment stop [-h] --project-id PROJECT_ID
                                         [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-environment update

```
usage: gitlab project-environment update [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --id ID [--name NAME]
                                         [--external-url EXTERNAL_URL]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

--name <name>

--external-url <external_url>

gitlab project-event

```
usage: gitlab project-event [-h] {list} ...
```

-h, --help
show this help message and exit

gitlab project-event list

```
usage: gitlab project-event list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                  [--action ACTION] [--target-type TARGET_TYPE]
                                  [--before BEFORE] [--after AFTER]
                                  [--sort SORT] [--page PAGE]
                                  [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

```

--sudo <sudo>
--project-id <project_id>
--action <action>
--target-type <target_type>
--before <before>
--after <after>
--sort <sort>
--page <page>
--per-page <per_page>
--all

```

gitlab project-export

```
usage: gitlab project-export [-h] {get,create,download} ...
```

```

-h, --help
    show this help message and exit

```

gitlab project-export create

```
usage: gitlab project-export create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                     [--description DESCRIPTION]
```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--project-id <project_id>
--description <description>

```

gitlab project-export download

```
usage: gitlab project-export download [-h] --project-id PROJECT_ID
                                       [--sudo SUDO]
```

```

-h, --help
    show this help message and exit
--project-id <project_id>
--sudo <sudo>

```

gitlab project-export get

```
usage: gitlab project-export get [-h] [--sudo SUDO] --project-id PROJECT_ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

gitlab project-file

```
usage: gitlab project-file [-h] {get,create,update,delete,raw,blame} ...
```

-h, --help
show this help message and exit

gitlab project-file blame

```
usage: gitlab project-file blame [-h] --project-id PROJECT_ID [--sudo SUDO]
                                --file-path FILE_PATH --ref REF
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--file-path <file_path>

--ref <ref>

gitlab project-file create

```
usage: gitlab project-file create [-h] --project-id PROJECT_ID [--sudo SUDO]
                                --file-path FILE_PATH --branch BRANCH
                                --content CONTENT --commit-message
                                COMMIT_MESSAGE [--encoding ENCODING]
                                [--author-email AUTHOR_EMAIL]
                                [--author-name AUTHOR_NAME]
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--file-path <file_path>

--branch <branch>
--content <content>
--commit-message <commit_message>
--encoding <encoding>
--author-email <author_email>
--author-name <author_name>

gitlab project-file delete

```
usage: gitlab project-file delete [-h] --project-id PROJECT_ID [--sudo SUDO]
                                   --file-path FILE_PATH --branch BRANCH
                                   --commit-message COMMIT_MESSAGE
```

-h, --help
show this help message and exit
--project-id <project_id>
--sudo <sudo>
--file-path <file_path>
--branch <branch>
--commit-message <commit_message>

gitlab project-file get

```
usage: gitlab project-file get [-h] --project-id PROJECT_ID [--sudo SUDO]
                                --file-path FILE_PATH --ref REF
```

-h, --help
show this help message and exit
--project-id <project_id>
--sudo <sudo>
--file-path <file_path>
--ref <ref>

gitlab project-file raw

```
usage: gitlab project-file raw [-h] --project-id PROJECT_ID [--sudo SUDO]
                               --file-path FILE_PATH --ref REF
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--file-path <file_path>

--ref <ref>

gitlab project-file update

```
usage: gitlab project-file update [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --file-path FILE_PATH --branch BRANCH
                                   --content CONTENT --commit-message
                                   COMMIT_MESSAGE [--encoding ENCODING]
                                   [--author-email AUTHOR_EMAIL]
                                   [--author-name AUTHOR_NAME]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--file-path <file_path>

--branch <branch>

--content <content>

--commit-message <commit_message>

--encoding <encoding>

--author-email <author_email>

--author-name <author_name>

gitlab project-fork

```
usage: gitlab project-fork [-h] {list,create} ...
```

-h, --help

show this help message and exit

gitlab project-fork create

```
usage: gitlab project-fork create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   [--namespace NAMESPACE]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--namespace <namespace>

gitlab project-fork list

```
usage: gitlab project-fork list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                [--archived ARCHIVED]
                                [--visibility VISIBILITY]
                                [--order-by ORDER_BY] [--sort SORT]
                                [--search SEARCH] [--simple SIMPLE]
                                [--owned OWNED] [--membership MEMBERSHIP]
                                [--starred STARRED] [--statistics STATISTICS]
                                [--with-custom-attributes WITH_CUSTOM_ATTRIBUTES]
                                [--with-issues-enabled WITH_ISSUES_ENABLED]
                                [--with-merge-requests-enabled WITH_MERGE_REQUESTS_
↳ENABLED]
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--archived <archived>

--visibility <visibility>

--order-by <order_by>

--sort <sort>

--search <search>

```
--simple <simple>
--owned <owned>
--membership <membership>
--starred <starred>
--statistics <statistics>
--with-custom-attributes <with_custom_attributes>
--with-issues-enabled <with_issues_enabled>
--with-merge-requests-enabled <with_merge_requests_enabled>
--page <page>
--per-page <per_page>
--all
```

gitlab project-hook

```
usage: gitlab project-hook [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-hook create

```
usage: gitlab project-hook create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --url URL [--push-events PUSH_EVENTS]
                                [--issues-events ISSUES_EVENTS]
                                [--confidential-issues-events CONFIDENTIAL_ISSUES_
↵EVENTS]
                                [--merge-requests-events MERGE_REQUESTS_EVENTS]
                                [--tag-push-events TAG_PUSH_EVENTS]
                                [--note-events NOTE_EVENTS]
                                [--job-events JOB_EVENTS]
                                [--pipeline-events PIPELINE_EVENTS]
                                [--wiki-page-events WIKI_PAGE_EVENTS]
                                [--enable-ssl-verification ENABLE_SSL_VERIFICATION]
                                [--token TOKEN]
```

-h, --help
show this help message and exit

```
--sudo <sudo>
--project-id <project_id>
--url <url>
```

```

--push-events <push_events>
--issues-events <issues_events>
--confidential-issues-events <confidential_issues_events>
--merge-requests-events <merge_requests_events>
--tag-push-events <tag_push_events>
--note-events <note_events>
--job-events <job_events>
--pipeline-events <pipeline_events>
--wiki-page-events <wiki_page_events>
--enable-ssl-verification <enable_ssl_verification>
--token <token>

```

gitlab project-hook delete

```
usage: gitlab project-hook delete [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --id ID

```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--project-id <project_id>
--id <id>

```

gitlab project-hook get

```
usage: gitlab project-hook get [-h] [--sudo SUDO] --project-id PROJECT_ID --id
                                ID

```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--project-id <project_id>
--id <id>

```

gitlab project-hook list

```
usage: gitlab project-hook list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-hook update

```
usage: gitlab project-hook update [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --id ID --url URL
                                [--push-events PUSH_EVENTS]
                                [--issues-events ISSUES_EVENTS]
                                [--confidential-issues-events CONFIDENTIAL_ISSUES_
↩EVENTS]
                                [--merge-requests-events MERGE_REQUESTS_EVENTS]
                                [--tag-push-events TAG_PUSH_EVENTS]
                                [--note-events NOTE_EVENTS]
                                [--job-events JOB_EVENTS]
                                [--pipeline-events PIPELINE_EVENTS]
                                [--wiki-events WIKI_EVENTS]
                                [--enable-ssl-verification ENABLE_SSL_VERIFICATION]
                                [--token TOKEN]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

--url <url>

--push-events <push_events>

--issues-events <issues_events>

--confidential-issues-events <confidential_issues_events>

--merge-requests-events <merge_requests_events>

--tag-push-events <tag_push_events>

```

--note-events <note_events>
--job-events <job_events>
--pipeline-events <pipeline_events>
--wiki-events <wiki_events>
--enable-ssl-verification <enable_ssl_verification>
--token <token>

```

gitlab project-import

```
usage: gitlab project-import [-h] {get} ...
```

```

-h, --help
    show this help message and exit

```

gitlab project-import get

```
usage: gitlab project-import get [-h] [--sudo SUDO] --project-id PROJECT_ID
```

```

-h, --help
    show this help message and exit

--sudo <sudo>
--project-id <project_id>

```

gitlab project-issue

```

usage: gitlab project-issue [-h]
                           {list,get,create,update,delete,user-agent-detail,subscribe,
↳ unsubscribe,todo,time-stats,time-estimate,reset-time-estimate,add-spent-time,reset-
↳ spent-time,participants,move,related-merge-requests,closed-by}
                           ...

```

```

-h, --help
    show this help message and exit

```

gitlab project-issue add-spent-time

```

usage: gitlab project-issue add-spent-time [-h] --project-id PROJECT_ID
                                           [--sudo SUDO] --iid IID --duration
                                           DURATION

```

```

-h, --help
    show this help message and exit

```

--project-id <project_id>
--sudo <sudo>
--iid <iid>
--duration <duration>

gitlab project-issue closed-by

```
usage: gitlab project-issue closed-by [-h] --project-id PROJECT_ID
                                     [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit
--project-id <project_id>
--sudo <sudo>
--iid <iid>

gitlab project-issue create

```
usage: gitlab project-issue create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --title TITLE [--description DESCRIPTION]
                                   [--confidential CONFIDENTIAL]
                                   [--assignee-ids ASSIGNEE_IDS]
                                   [--assignee-id ASSIGNEE_ID]
                                   [--milestone-id MILESTONE_ID]
                                   [--labels LABELS] [--created-at CREATED_AT]
                                   [--due-date DUE_DATE]
                                   [--merge-request-to-resolve-discussions-of MERGE_
↪REQUEST_TO_RESOLVE_DISCUSSIONS_OF]
                                   [--discussion-to-resolve DISCUSSION_TO_RESOLVE]
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--title <title>
--description <description>
--confidential <confidential>
--assignee-ids <assignee_ids>
--assignee-id <assignee_id>
--milestone-id <milestone_id>

```

--labels <labels>
--created-at <created_at>
--due-date <due_date>
--merge-request-to-resolve-discussions-of <merge_request_to_resolve_discussions_of>
--discussion-to-resolve <discussion_to_resolve>

```

gitlab project-issue delete

```

usage: gitlab project-issue delete [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --iid IID

```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--project-id <project_id>
--iid <iid>

```

gitlab project-issue get

```

usage: gitlab project-issue get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --iid IID

```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--project-id <project_id>
--iid <iid>

```

gitlab project-issue list

```

usage: gitlab project-issue list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                [--iids IIDS] [--state STATE]
                                [--labels LABELS] [--milestone MILESTONE]
                                [--scope SCOPE] [--author-id AUTHOR_ID]
                                [--assignee-id ASSIGNEE_ID]
                                [--my-reaction-emoji MY_REACTION_EMOJI]
                                [--order-by ORDER_BY] [--sort SORT]
                                [--search SEARCH]
                                [--created-after CREATED_AFTER]
                                [--created-before CREATED_BEFORE]
                                [--updated-after UPDATED_AFTER]
                                [--updated-before UPDATED_BEFORE]
                                [--page PAGE] [--per-page PER_PAGE] [--all]

```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--iids <iids>

--state <state>

--labels <labels>

--milestone <milestone>

--scope <scope>

--author-id <author_id>

--assignee-id <assignee_id>

--my-reaction-emoji <my_reaction_emoji>

--order-by <order_by>

--sort <sort>

--search <search>

--created-after <created_after>

--created-before <created_before>

--updated-after <updated_after>

--updated-before <updated_before>

--page <page>

--per-page <per_page>

--all

gitlab project-issue move

```
usage: gitlab project-issue move [-h] --project-id PROJECT_ID [--sudo SUDO]
                                --iid IID --to-project-id TO_PROJECT_ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

--to-project-id <to_project_id>

gitlab project-issue participants

```
usage: gitlab project-issue participants [-h] --project-id PROJECT_ID
                                         [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-issue related-merge-requests

```
usage: gitlab project-issue related-merge-requests [-h] --project-id
                                                    PROJECT_ID [--sudo SUDO]
                                                    --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-issue reset-spent-time

```
usage: gitlab project-issue reset-spent-time [-h] --project-id PROJECT_ID
                                              [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-issue reset-time-estimate

```
usage: gitlab project-issue reset-time-estimate [-h] --project-id PROJECT_ID
                                                [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-issue subscribe

```
usage: gitlab project-issue subscribe [-h] --project-id PROJECT_ID
                                     [--sudo SUDO] --iid IID
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-issue time-estimate

```
usage: gitlab project-issue time-estimate [-h] --project-id PROJECT_ID
                                           [--sudo SUDO] --iid IID --duration
                                           DURATION
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

--duration <duration>

gitlab project-issue time-stats

```
usage: gitlab project-issue time-stats [-h] --project-id PROJECT_ID
                                       [--sudo SUDO] --iid IID
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-issue todo

```
usage: gitlab project-issue todo [-h] --project-id PROJECT_ID [--sudo SUDO]
                                --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-issue unsubscribe

```
usage: gitlab project-issue unsubscribe [-h] --project-id PROJECT_ID
                                       [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-issue update

```
usage: gitlab project-issue update [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --iid IID [--title TITLE]
                                [--description DESCRIPTION]
                                [--confidential CONFIDENTIAL]
                                [--assignee-ids ASSIGNEE_IDS]
                                [--assignee-id ASSIGNEE_ID]
                                [--milestone-id MILESTONE_ID]
                                [--labels LABELS]
                                [--state-event STATE_EVENT]
                                [--updated-at UPDATED_AT]
                                [--due-date DUE_DATE]
                                [--discussion-locked DISCUSSION_LOCKED]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--iid <iid>

--title <title>

--description <description>
--confidential <confidential>
--assignee-ids <assignee_ids>
--assignee-id <assignee_id>
--milestone-id <milestone_id>
--labels <labels>
--state-event <state_event>
--updated-at <updated_at>
--due-date <due_date>
--discussion-locked <discussion_locked>

gitlab project-issue user-agent-detail

```
usage: gitlab project-issue user-agent-detail [-h] --project-id PROJECT_ID
                                             [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit
--project-id <project_id>
--sudo <sudo>
--iid <iid>

gitlab project-issue-award-emoji

```
usage: gitlab project-issue-award-emoji [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab project-issue-award-emoji create

```
usage: gitlab project-issue-award-emoji create [-h] [--sudo SUDO] --project-id
PROJECT_ID --issue-iid
ISSUE_IID --name NAME
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>

--issue-iid <issue_iid>

--name <name>

gitlab project-issue-award-emoji delete

```
usage: gitlab project-issue-award-emoji delete [-h] [--sudo SUDO] --project-id
        PROJECT_ID --issue-iid
        ISSUE_IID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--id <id>

gitlab project-issue-award-emoji get

```
usage: gitlab project-issue-award-emoji get [-h] [--sudo SUDO] --project-id
        PROJECT_ID --issue-iid ISSUE_IID
        --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--id <id>

gitlab project-issue-award-emoji list

```
usage: gitlab project-issue-award-emoji list [-h] [--sudo SUDO] --project-id
        PROJECT_ID --issue-iid ISSUE_IID
        [--page PAGE]
        [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>
--page <page>
--per-page <per_page>
--all

gitlab project-issue-discussion

```
usage: gitlab project-issue-discussion [-h] {list,get,create} ...
```

-h, --help
show this help message and exit

gitlab project-issue-discussion create

```
usage: gitlab project-issue-discussion create [-h] [--sudo SUDO] --project-id
                                             PROJECT_ID --issue-iid ISSUE_IID
                                             --body BODY
                                             [--created-at CREATED_AT]
```

-h, --help
show this help message and exit

--sudo <sudo>
--project-id <project_id>
--issue-iid <issue_iid>
--body <body>
--created-at <created_at>

gitlab project-issue-discussion get

```
usage: gitlab project-issue-discussion get [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --issue-iid ISSUE_IID
                                           --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>
--project-id <project_id>
--issue-iid <issue_iid>
--id <id>

gitlab project-issue-discussion list

```
usage: gitlab project-issue-discussion list [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --issue-iid ISSUE_IID
                                           [--page PAGE]
                                           [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--page <page>

--per-page <per_page>

--all

gitlab project-issue-discussion-note

```
usage: gitlab project-issue-discussion-note [-h]
                                           {get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-issue-discussion-note create

```
usage: gitlab project-issue-discussion-note create [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --issue-iid ISSUE_IID
                                                    --discussion-id
DISCUSSION_ID --body BODY
                                                    [--created-at CREATED_AT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--discussion-id <discussion_id>

--body <body>

--created-at <created_at>

gitlab project-issue-discussion-note delete

```
usage: gitlab project-issue-discussion-note delete [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --issue-iid ISSUE_IID
                                                    --discussion-id
DISCUSSION_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--discussion-id <discussion_id>

--id <id>

gitlab project-issue-discussion-note get

```
usage: gitlab project-issue-discussion-note get [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --issue-iid ISSUE_IID
                                                    --discussion-id DISCUSSION_ID
                                                    --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--discussion-id <discussion_id>

--id <id>

gitlab project-issue-discussion-note update

```
usage: gitlab project-issue-discussion-note update [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --issue-iid ISSUE_IID
                                                    --discussion-id
DISCUSSION_ID --id ID
                                                    --body BODY
```

-h, --help
show this help message and exit

```
--sudo <sudo>
--project-id <project_id>
--issue-iid <issue_iid>
--discussion-id <discussion_id>
--id <id>
--body <body>
```

gitlab project-issue-link

```
usage: gitlab project-issue-link [-h] {list,create,delete} ...
```

```
-h, --help
    show this help message and exit
```

gitlab project-issue-link create

```
usage: gitlab project-issue-link create [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --issue-iid ISSUE_IID
                                         --target-project-id TARGET_PROJECT_ID
                                         --target-issue-iid TARGET_ISSUE_IID
```

```
-h, --help
    show this help message and exit
```

```
--sudo <sudo>
--project-id <project_id>
--issue-iid <issue_iid>
--target-project-id <target_project_id>
--target-issue-iid <target_issue_iid>
```

gitlab project-issue-link delete

```
usage: gitlab project-issue-link delete [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --issue-iid ISSUE_IID
                                         --issue-link-id ISSUE_LINK_ID
```

```
-h, --help
    show this help message and exit
```

```
--sudo <sudo>
--project-id <project_id>
--issue-iid <issue_iid>
--issue-link-id <issue_link_id>
```

gitlab project-issue-link list

```
usage: gitlab project-issue-link list [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --issue-iid ISSUE_IID
                                     [--page PAGE] [--per-page PER_PAGE]
                                     [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--page <page>

--per-page <per_page>

--all

gitlab project-issue-note

```
usage: gitlab project-issue-note [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-issue-note create

```
usage: gitlab project-issue-note create [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --issue-iid ISSUE_IID
                                     --body BODY [--created-at CREATED_AT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--body <body>

--created-at <created_at>

gitlab project-issue-note delete

```
usage: gitlab project-issue-note delete [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --issue-iid ISSUE_IID --id
                                         ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--id <id>

gitlab project-issue-note get

```
usage: gitlab project-issue-note get [-h] [--sudo SUDO] --project-id
                                       PROJECT_ID --issue-iid ISSUE_IID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--id <id>

gitlab project-issue-note list

```
usage: gitlab project-issue-note list [-h] [--sudo SUDO] --project-id
                                       PROJECT_ID --issue-iid ISSUE_IID
                                       [--page PAGE] [--per-page PER_PAGE]
                                       [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--page <page>

--per-page <per_page>

--all

gitlab project-issue-note update

```
usage: gitlab project-issue-note update [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --issue-iid ISSUE_IID --id
                                         ID --body BODY
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--id <id>

--body <body>

gitlab project-issue-note-award-emoji

```
usage: gitlab project-issue-note-award-emoji [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab project-issue-note-award-emoji create

```
usage: gitlab project-issue-note-award-emoji create [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --issue-iid ISSUE_IID
                                                    --note-id NOTE_ID --name
                                                    NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--note-id <note_id>

--name <name>

gitlab project-issue-note-award-emoji delete

```
usage: gitlab project-issue-note-award-emoji delete [-h] [--sudo SUDO]
                                         --project-id PROJECT_ID
                                         --issue-iid ISSUE_IID
                                         --note-id NOTE_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--note-id <note_id>

--id <id>

gitlab project-issue-note-award-emoji get

```
usage: gitlab project-issue-note-award-emoji get [-h] [--sudo SUDO]
                                         --project-id PROJECT_ID
                                         --issue-iid ISSUE_IID
                                         --note-id NOTE_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--note-id <note_id>

--id <id>

gitlab project-issue-note-award-emoji list

```
usage: gitlab project-issue-note-award-emoji list [-h] [--sudo SUDO]
                                         --project-id PROJECT_ID
                                         --issue-iid ISSUE_IID
                                         --note-id NOTE_ID
                                         [--page PAGE]
                                         [--per-page PER_PAGE]
                                         [--all]
```

-h, --help
show this help message and exit

```
--sudo <sudo>
--project-id <project_id>
--issue-iid <issue_iid>
--note-id <note_id>
--page <page>
--per-page <per_page>
--all
```

gitlab project-issue-resource-label-event

```
usage: gitlab project-issue-resource-label-event [-h] {list,get} ...
```

-h, --help
show this help message and exit

gitlab project-issue-resource-label-event get

```
usage: gitlab project-issue-resource-label-event get [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --issue-iid ISSUE_IID
                                                    --id ID
```

-h, --help
show this help message and exit

```
--sudo <sudo>
--project-id <project_id>
--issue-iid <issue_iid>
--id <id>
```

gitlab project-issue-resource-label-event list

```
usage: gitlab project-issue-resource-label-event list [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --issue-iid ISSUE_IID
                                                    [--page PAGE]
                                                    [--per-page PER_PAGE]
                                                    [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

```

--project-id <project_id>
--issue-iid <issue_iid>
--page <page>
--per-page <per_page>
--all

```

gitlab project-issue-resource-milestone-event

```
usage: gitlab project-issue-resource-milestone-event [-h] {list,get} ...
```

```

-h, --help
    show this help message and exit

```

gitlab project-issue-resource-milestone-event get

```

usage: gitlab project-issue-resource-milestone-event get [-h] [--sudo SUDO]
                                                    --project-id
                                                    PROJECT_ID
                                                    --issue-iid ISSUE_IID
                                                    --id ID

```

```

-h, --help
    show this help message and exit

--sudo <sudo>

--project-id <project_id>

--issue-iid <issue_iid>

--id <id>

```

gitlab project-issue-resource-milestone-event list

```

usage: gitlab project-issue-resource-milestone-event list [-h] [--sudo SUDO]
                                                    --project-id
                                                    PROJECT_ID
                                                    --issue-iid
                                                    ISSUE_IID
                                                    [--page PAGE]
                                                    [--per-page PER_PAGE]
                                                    [--all]

```

```

-h, --help
    show this help message and exit

--sudo <sudo>

```

--project-id <project_id>
--issue-iid <issue_iid>
--page <page>
--per-page <per_page>
--all

gitlab project-issue-resource-state-event

```
usage: gitlab project-issue-resource-state-event [-h] {list,get} ...
```

-h, --help
show this help message and exit

gitlab project-issue-resource-state-event get

```
usage: gitlab project-issue-resource-state-event get [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --issue-iid ISSUE_IID
                                                    --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>
--project-id <project_id>
--issue-iid <issue_iid>
--id <id>

gitlab project-issue-resource-state-event list

```
usage: gitlab project-issue-resource-state-event list [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --issue-iid ISSUE_IID
                                                    [--page PAGE]
                                                    [--per-page PER_PAGE]
                                                    [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>
--project-id <project_id>
--issue-iid <issue_iid>

```
--page <page>
--per-page <per_page>
--all
```

gitlab project-issues-statistics

```
usage: gitlab project-issues-statistics [-h] {get} ...
```

```
-h, --help
    show this help message and exit
```

gitlab project-issues-statistics get

```
usage: gitlab project-issues-statistics get [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID
```

```
-h, --help
    show this help message and exit
```

```
--sudo <sudo>
```

```
--project-id <project_id>
```

gitlab project-job

```
usage: gitlab project-job [-h]
                        {list,get,cancel,retry,play,erase,keep-artifacts,delete-
↪ artifacts,artifacts,artifact,trace}
                        ...
```

```
-h, --help
    show this help message and exit
```

gitlab project-job artifact

```
usage: gitlab project-job artifact [-h] --project-id PROJECT_ID [--sudo SUDO]
                                   --id ID
```

```
-h, --help
    show this help message and exit
```

```
--project-id <project_id>
```

```
--sudo <sudo>
```

```
--id <id>
```

gitlab project-job artifacts

```
usage: gitlab project-job artifacts [-h] --project-id PROJECT_ID [--sudo SUDO]
                                   --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-job cancel

```
usage: gitlab project-job cancel [-h] --project-id PROJECT_ID [--sudo SUDO]
                                   --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-job delete-artifacts

```
usage: gitlab project-job delete-artifacts [-h] --project-id PROJECT_ID
                                           [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-job erase

```
usage: gitlab project-job erase [-h] --project-id PROJECT_ID [--sudo SUDO]
                                --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-job get

```
usage: gitlab project-job get [-h] [--sudo SUDO] --project-id PROJECT_ID --id
                               ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-job keep-artifacts

```
usage: gitlab project-job keep-artifacts [-h] --project-id PROJECT_ID
                                           [--sudo SUDO] --id ID
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-job list

```
usage: gitlab project-job list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-job play

```
usage: gitlab project-job play [-h] --project-id PROJECT_ID [--sudo SUDO] --id
                                ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-job retry

```
usage: gitlab project-job retry [-h] --project-id PROJECT_ID [--sudo SUDO]
                                --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-job trace

```
usage: gitlab project-job trace [-h] --project-id PROJECT_ID [--sudo SUDO]
                                --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-key

```
usage: gitlab project-key [-h] {list,get,create,update,delete,enable} ...
```

-h, --help
show this help message and exit

gitlab project-key create

```
usage: gitlab project-key create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --title TITLE --key KEY [--can-push CAN_PUSH]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--title <title>

--key <key>

--can-push <can_push>

gitlab project-key delete

```
usage: gitlab project-key delete [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-key enable

```
usage: gitlab project-key enable [-h] --project-id PROJECT_ID [--sudo SUDO]
                                --id ID --key-id KEY_ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

--key-id <key_id>

gitlab project-key get

```
usage: gitlab project-key get [-h] [--sudo SUDO] --project-id PROJECT_ID --id
                               ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-key list

```
usage: gitlab project-key list [-h] [--sudo SUDO] --project-id PROJECT_ID
                               [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-key update

```
usage: gitlab project-key update [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --id ID [--title TITLE] [--can-push CAN_PUSH]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

--title <title>

--can-push <can_push>

gitlab project-label

```
usage: gitlab project-label [-h]
                             {list,get,create,update,delete,subscribe,unsubscribe}
                             ...
```

-h, --help

show this help message and exit

gitlab project-label create

```
usage: gitlab project-label create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --name NAME --color COLOR
                                   [--description DESCRIPTION]
                                   [--priority PRIORITY]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

--color <color>

--description <description>

--priority <priority>

gitlab project-label delete

```
usage: gitlab project-label delete [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --name NAME
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

gitlab project-label get

```
usage: gitlab project-label get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --name NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

gitlab project-label list

```
usage: gitlab project-label list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-label subscribe

```
usage: gitlab project-label subscribe [-h] --project-id PROJECT_ID
                                       [--sudo SUDO] --name NAME
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--name <name>

gitlab project-label unsubscribe

```
usage: gitlab project-label unsubscribe [-h] --project-id PROJECT_ID
                                         [--sudo SUDO] --name NAME
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--name <name>

gitlab project-label update

```
usage: gitlab project-label update [-h] [--sudo SUDO] --project-id PROJECT_ID
                                     --name NAME [--new-name NEW_NAME]
                                     [--color COLOR] [--description DESCRIPTION]
                                     [--priority PRIORITY]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

--new-name <new_name>

--color <color>

--description <description>

--priority <priority>

gitlab project-member

```
usage: gitlab project-member [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-member create

```
usage: gitlab project-member create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                     --access-level ACCESS_LEVEL --user-id
                                     USER_ID [--expires-at EXPIRES_AT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--access-level <access_level>

--user-id <user_id>

--expires-at <expires_at>

gitlab project-member delete

```
usage: gitlab project-member delete [-h] [--sudo SUDO] --project-id PROJECT_ID
                                     --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-member get

```
usage: gitlab project-member get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-member list

```
usage: gitlab project-member list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-member update

```
usage: gitlab project-member update [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --id ID --access-level ACCESS_LEVEL
                                   [--expires-at EXPIRES_AT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

--access-level <access_level>

--expires-at <expires_at>

gitlab project-member-all

```
usage: gitlab project-member-all [-h] {list,get} ...
```

-h, --help
show this help message and exit

gitlab project-member-all get

```
usage: gitlab project-member-all get [-h] [--sudo SUDO] --project-id
                                       PROJECT_ID --id ID
```

-h, --help
show this help message and exit

```
--sudo <sudo>
--project-id <project_id>
--id <id>
```

gitlab project-member-all list

```
usage: gitlab project-member-all list [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID [--page PAGE]
                                         [--per-page PER_PAGE] [--all]
```

```
-h, --help
    show this help message and exit
--sudo <sudo>
--project-id <project_id>
--page <page>
--per-page <per_page>
--all
```

gitlab project-merge-request

```
usage: gitlab project-merge-request [-h]
                                     {list,get,create,update,delete,subscribe,unsubscribe,
↳ todo,time-stats,time-estimate,reset-time-estimate,add-spent-time,reset-spent-time,
↳ participants,cancel-merge-when-pipeline-succeeds,closes-issues,commits,changes,approve,
↳ unapprove,rebase,merge-ref,merge}
                                     ...
```

```
-h, --help
    show this help message and exit
```

gitlab project-merge-request add-spent-time

```
usage: gitlab project-merge-request add-spent-time [-h] --project-id
                                                    PROJECT_ID [--sudo SUDO]
                                                    --iid IID --duration
                                                    DURATION
```

```
-h, --help
    show this help message and exit
--project-id <project_id>
--sudo <sudo>
--iid <iid>
--duration <duration>
```

gitlab project-merge-request approve

```
usage: gitlab project-merge-request approve [-h] --project-id PROJECT_ID
                                           [--sudo SUDO] --iid IID
                                           [--sha SHA]
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

--sha <sha>

gitlab project-merge-request cancel-merge-when-pipeline-succeeds

```
usage: gitlab project-merge-request cancel-merge-when-pipeline-succeeds
       [-h] --project-id PROJECT_ID [--sudo SUDO] --iid IID
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request changes

```
usage: gitlab project-merge-request changes [-h] --project-id PROJECT_ID
                                           [--sudo SUDO] --iid IID
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request closes-issues

```
usage: gitlab project-merge-request closes-issues [-h] --project-id PROJECT_ID
                                                [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request commits

```
usage: gitlab project-merge-request commits [-h] --project-id PROJECT_ID
                                           [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request create

```
usage: gitlab project-merge-request create [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --source-branch
                                           SOURCE_BRANCH --target-branch
                                           TARGET_BRANCH --title TITLE
                                           [--assignee-id ASSIGNEE_ID]
                                           [--description DESCRIPTION]
                                           [--target-project-id TARGET_PROJECT_ID]
                                           [--labels LABELS]
                                           [--milestone-id MILESTONE_ID]
                                           [--remove-source-branch REMOVE_SOURCE_BRANCH]
                                           [--allow-maintainer-to-push ALLOW_MAINTAINER_
↩ TO_PUSH]
                                           [--squash SQUASH]
                                           [--reviewer-ids REVIEWER_IDS]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--source-branch <source_branch>

```

--target-branch <target_branch>
--title <title>
--assignee-id <assignee_id>
--description <description>
--target-project-id <target_project_id>
--labels <labels>
--milestone-id <milestone_id>
--remove-source-branch <remove_source_branch>
--allow-maintainer-to-push <allow_maintainer_to_push>
--squash <squash>
--reviewer-ids <reviewer_ids>

```

gitlab project-merge-request delete

```
usage: gitlab project-merge-request delete [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --iid IID
```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--project-id <project_id>
--iid <iid>

```

gitlab project-merge-request get

```
usage: gitlab project-merge-request get [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --iid IID
                                         [--render-html RENDER_HTML]
                                         [--include-diverged-commits-count INCLUDE_
↪ DIVERGED_COMMITS_COUNT]
                                         [--include-rebase-in-progress INCLUDE_REBASE_IN_
↪ PROGRESS]
```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--project-id <project_id>
--iid <iid>

```

--render-html <render_html>

--include-diverged-commits-count <include_diverged_commits_count>

--include-rebase-in-progress <include_rebase_in_progress>

gitlab project-merge-request list

```
usage: gitlab project-merge-request list [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID [--state STATE]
                                         [--order-by ORDER_BY] [--sort SORT]
                                         [--milestone MILESTONE] [--view VIEW]
                                         [--labels LABELS]
                                         [--created-after CREATED_AFTER]
                                         [--created-before CREATED_BEFORE]
                                         [--updated-after UPDATED_AFTER]
                                         [--updated-before UPDATED_BEFORE]
                                         [--scope SCOPE] [--iids IIDS]
                                         [--author-id AUTHOR_ID]
                                         [--assignee-id ASSIGNEE_ID]
                                         [--approver-ids APPROVER_IDS]
                                         [--approved-by-ids APPROVED_BY_IDS]
                                         [--my-reaction-emoji MY_REACTION_EMOJI]
                                         [--source-branch SOURCE_BRANCH]
                                         [--target-branch TARGET_BRANCH]
                                         [--search SEARCH] [--wip WIP]
                                         [--page PAGE] [--per-page PER_PAGE]
                                         [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--state <state>

--order-by <order_by>

--sort <sort>

--milestone <milestone>

--view <view>

--labels <labels>

--created-after <created_after>

--created-before <created_before>

--updated-after <updated_after>

--updated-before <updated_before>

```

--scope <scope>
--iids <iids>
--author-id <author_id>
--assignee-id <assignee_id>
--approver-ids <approver_ids>
--approved-by-ids <approved_by_ids>
--my-reaction-emoji <my_reaction_emoji>
--source-branch <source_branch>
--target-branch <target_branch>
--search <search>
--wip <wip>
--page <page>
--per-page <per_page>
--all

```

gitlab project-merge-request merge

```

usage: gitlab project-merge-request merge [-h] --project-id PROJECT_ID
                                           [--sudo SUDO] --iid IID
                                           [--merge-commit-message MERGE_COMMIT_MESSAGE]
                                           [--should-remove-source-branch SHOULD_REMOVE_
↪SOURCE_BRANCH]
                                           [--merge-when-pipeline-succeeds MERGE_WHEN_
↪PIPELINE_SUCCEEDS]

```

```

-h, --help
    show this help message and exit
--project-id <project_id>
--sudo <sudo>
--iid <iid>
--merge-commit-message <merge_commit_message>
--should-remove-source-branch <should_remove_source_branch>
--merge-when-pipeline-succeeds <merge_when_pipeline_succeeds>

```

gitlab project-merge-request merge-ref

```
usage: gitlab project-merge-request merge-ref [-h] --project-id PROJECT_ID
                                              [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request participants

```
usage: gitlab project-merge-request participants [-h] --project-id PROJECT_ID
                                              [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request rebase

```
usage: gitlab project-merge-request rebase [-h] --project-id PROJECT_ID
                                           [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request reset-spent-time

```
usage: gitlab project-merge-request reset-spent-time [-h] --project-id
                                                    PROJECT_ID [--sudo SUDO]
                                                    --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request reset-time-estimate

```
usage: gitlab project-merge-request reset-time-estimate [-h] --project-id
                                                         PROJECT_ID
                                                         [--sudo SUDO] --iid
                                                         IID
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request subscribe

```
usage: gitlab project-merge-request subscribe [-h] --project-id PROJECT_ID
                                              [--sudo SUDO] --iid IID
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request time-estimate

```
usage: gitlab project-merge-request time-estimate [-h] --project-id PROJECT_ID
                                                  [--sudo SUDO] --iid IID
                                                  --duration DURATION
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

--duration <duration>

gitlab project-merge-request time-stats

```
usage: gitlab project-merge-request time-stats [-h] --project-id PROJECT_ID
                                              [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request todo

```
usage: gitlab project-merge-request todo [-h] --project-id PROJECT_ID
                                          [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request unapprove

```
usage: gitlab project-merge-request unapprove [-h] --project-id PROJECT_ID
                                              [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request unsubscribe

```
usage: gitlab project-merge-request unsubscribe [-h] --project-id PROJECT_ID
                                              [--sudo SUDO] --iid IID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--iid <iid>

gitlab project-merge-request update

```
usage: gitlab project-merge-request update [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --iid IID
                                           [--target-branch TARGET_BRANCH]
                                           [--assignee-id ASSIGNEE_ID]
                                           [--title TITLE]
                                           [--description DESCRIPTION]
                                           [--state-event STATE_EVENT]
                                           [--labels LABELS]
                                           [--milestone-id MILESTONE_ID]
                                           [--remove-source-branch REMOVE_SOURCE_BRANCH]
                                           [--discussion-locked DISCUSSION_LOCKED]
                                           [--allow-maintainer-to-push ALLOW_MAINTAINER_
↪TO_PUSH]
                                           [--squash SQUASH]
                                           [--reviewer-ids REVIEWER_IDS]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--iid <iid>

--target-branch <target_branch>

--assignee-id <assignee_id>

--title <title>

--description <description>

--state-event <state_event>

--labels <labels>

--milestone-id <milestone_id>

--remove-source-branch <remove_source_branch>

--discussion-locked <discussion_locked>

--allow-maintainer-to-push <allow_maintainer_to_push>

--squash <squash>

--reviewer-ids <reviewer_ids>

gitlab project-merge-request-approval

```
usage: gitlab project-merge-request-approval [-h] {get,update} ...
```

-h, --help

show this help message and exit

gitlab project-merge-request-approval get

```
usage: gitlab project-merge-request-approval get [-h] [--sudo SUDO]
                                                --project-id PROJECT_ID
                                                --mr-iid MR_IID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

gitlab project-merge-request-approval update

```
usage: gitlab project-merge-request-approval update [-h] [--sudo SUDO]
                                                --project-id PROJECT_ID
                                                --mr-iid MR_IID
                                                --approvals-required
                                                APPROVALS_REQUIRED
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--approvals-required <approvals_required>

gitlab project-merge-request-approval-rule

```
usage: gitlab project-merge-request-approval-rule [-h]
                                                {list,create,update,delete}
                                                ...
```

-h, --help

show this help message and exit

gitlab project-merge-request-approval-rule create

```
usage: gitlab project-merge-request-approval-rule create [-h] [--sudo SUDO]
                                                         --project-id
                                                         PROJECT_ID --mr-iid
                                                         MR_IID --id ID
                                                         --merge-request-iid
                                                         MERGE_REQUEST_IID
                                                         --name NAME
                                                         --approvals-required
                                                         APPROVALS_REQUIRED
                                                         [--approval-project-rule-id
                                                         APPROVAL_PROJECT_RULE_ID]
                                                         [--user-ids USER_IDS]
                                                         [--group-ids GROUP_IDS]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--id <id>

--merge-request-iid <merge_request_iid>

--name <name>

--approvals-required <approvals_required>

--approval-project-rule-id <approval_project_rule_id>

--user-ids <user_ids>

--group-ids <group_ids>

gitlab project-merge-request-approval-rule delete

```
usage: gitlab project-merge-request-approval-rule delete [-h] [--sudo SUDO]
                                                         --project-id
                                                         PROJECT_ID --mr-iid
                                                         MR_IID
                                                         --approval-rule-id
                                                         APPROVAL_RULE_ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--approval-rule-id <approval_rule_id>

gitlab project-merge-request-approval-rule list

```
usage: gitlab project-merge-request-approval-rule list [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --mr-iid MR_IID
                                                    [--name NAME]
                                                    [--rule-type RULE_TYPE]
                                                    [--page PAGE]
                                                    [--per-page PER_PAGE]
                                                    [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--name <name>

--rule-type <rule_type>

--page <page>

--per-page <per_page>

--all

gitlab project-merge-request-approval-rule update

```
usage: gitlab project-merge-request-approval-rule update [-h] [--sudo SUDO]
                                                    --project-id
                                                    PROJECT_ID --mr-iid
                                                    MR_IID
                                                    --approval-rule-id
                                                    APPROVAL_RULE_ID --id
                                                    ID
                                                    --merge-request-iid
                                                    MERGE_REQUEST_IID
                                                    --name NAME
                                                    --approvals-required
                                                    APPROVALS_REQUIRED
                                                    [--user-ids USER_IDS]
                                                    [--group-ids GROUP_IDS]
```

-h, --help

show this help message and exit

```

--sudo <sudo>
--project-id <project_id>
--mr-iid <mr_iid>
--approval-rule-id <approval_rule_id>
--id <id>
--merge-request-iid <merge_request_iid>
--name <name>
--approvals-required <approvals_required>
--user-ids <user_ids>
--group-ids <group_ids>

```

gitlab project-merge-request-approval-state

```
usage: gitlab project-merge-request-approval-state [-h] {get} ...
```

-h, --help
show this help message and exit

gitlab project-merge-request-approval-state get

```
usage: gitlab project-merge-request-approval-state get [-h] [--sudo SUDO]
                                         --project-id PROJECT_ID
                                         --mr-iid MR_IID --id ID
```

-h, --help
show this help message and exit

```

--sudo <sudo>
--project-id <project_id>
--mr-iid <mr_iid>
--id <id>

```

gitlab project-merge-request-award-emoji

```
usage: gitlab project-merge-request-award-emoji [-h]
                                         {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab project-merge-request-award-emoji create

```
usage: gitlab project-merge-request-award-emoji create [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --mr-iid MR_IID --name
                                                    NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--name <name>

gitlab project-merge-request-award-emoji delete

```
usage: gitlab project-merge-request-award-emoji delete [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --mr-iid MR_IID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--id <id>

gitlab project-merge-request-award-emoji get

```
usage: gitlab project-merge-request-award-emoji get [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --mr-iid MR_IID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--id <id>

gitlab project-merge-request-award-emoji list

```
usage: gitlab project-merge-request-award-emoji list [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --mr-iid MR_IID
                                                    [--page PAGE]
                                                    [--per-page PER_PAGE]
                                                    [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--page <page>

--per-page <per_page>

--all

gitlab project-merge-request-diff

```
usage: gitlab project-merge-request-diff [-h] {list,get} ...
```

-h, --help
show this help message and exit

gitlab project-merge-request-diff get

```
usage: gitlab project-merge-request-diff get [-h] [--sudo SUDO] --project-id
PROJECT_ID --mr-iid MR_IID --id
ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--id <id>

gitlab project-merge-request-diff list

```
usage: gitlab project-merge-request-diff list [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --mr-iid MR_IID
                                           [--page PAGE]
                                           [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--page <page>

--per-page <per_page>

--all

gitlab project-merge-request-discussion

```
usage: gitlab project-merge-request-discussion [-h]
                                                {list,get,create,update} ...
```

-h, --help
show this help message and exit

gitlab project-merge-request-discussion create

```
usage: gitlab project-merge-request-discussion create [-h] [--sudo SUDO]
                                                       --project-id PROJECT_ID
                                                       --mr-iid MR_IID --body
                                                       BODY
                                                       [--created-at CREATED_AT]
                                                       [--position POSITION]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--body <body>

--created-at <created_at>

--position <position>

gitlab project-merge-request-discussion get

```
usage: gitlab project-merge-request-discussion get [-h] [--sudo SUDO]
                                         --project-id PROJECT_ID
                                         --mr-iid MR_IID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--id <id>

gitlab project-merge-request-discussion list

```
usage: gitlab project-merge-request-discussion list [-h] [--sudo SUDO]
                                         --project-id PROJECT_ID
                                         --mr-iid MR_IID
                                         [--page PAGE]
                                         [--per-page PER_PAGE]
                                         [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--page <page>

--per-page <per_page>

--all

gitlab project-merge-request-discussion update

```
usage: gitlab project-merge-request-discussion update [-h] [--sudo SUDO]
                                         --project-id PROJECT_ID
                                         --mr-iid MR_IID --id ID
                                         --resolved RESOLVED
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>
--mr-iid <mr_iid>
--id <id>
--resolved <resolved>

gitlab project-merge-request-discussion-note

```
usage: gitlab project-merge-request-discussion-note [-h]
                                                    {get,create,update,delete}
                                                    ...
```

-h, --help
show this help message and exit

gitlab project-merge-request-discussion-note create

```
usage: gitlab project-merge-request-discussion-note create [-h] [--sudo SUDO]
                                                           --project-id
                                                           PROJECT_ID --mr-iid
                                                           MR_IID
                                                           --discussion-id
                                                           DISCUSSION_ID
                                                           --body BODY
                                                           [--created-at CREATED_AT]
```

-h, --help
show this help message and exit

--sudo <sudo>
--project-id <project_id>
--mr-iid <mr_iid>
--discussion-id <discussion_id>
--body <body>
--created-at <created_at>

gitlab project-merge-request-discussion-note delete

```
usage: gitlab project-merge-request-discussion-note delete [-h] [--sudo SUDO]
                                                           --project-id
                                                           PROJECT_ID --mr-iid
                                                           MR_IID
                                                           --discussion-id
                                                           DISCUSSION_ID --id
                                                           ID
```

-h, --help
 show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--discussion-id <discussion_id>

--id <id>

gitlab project-merge-request-discussion-note get

```
usage: gitlab project-merge-request-discussion-note get [-h] [--sudo SUDO]
                                                    --project-id
                                                    PROJECT_ID --mr-iid
                                                    MR_IID --discussion-id
                                                    DISCUSSION_ID --id ID
```

-h, --help
 show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--discussion-id <discussion_id>

--id <id>

gitlab project-merge-request-discussion-note update

```
usage: gitlab project-merge-request-discussion-note update [-h] [--sudo SUDO]
                                                    --project-id
                                                    PROJECT_ID --mr-iid
                                                    MR_IID
                                                    --discussion-id
                                                    DISCUSSION_ID --id
                                                    ID --body BODY
```

-h, --help
 show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--discussion-id <discussion_id>

--id <id>
--body <body>

gitlab project-merge-request-note

```
usage: gitlab project-merge-request-note [-h]
                                         {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-merge-request-note create

```
usage: gitlab project-merge-request-note create [-h] [--sudo SUDO]
                                                --project-id PROJECT_ID
                                                --mr-iid MR_IID --body BODY
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--body <body>

gitlab project-merge-request-note delete

```
usage: gitlab project-merge-request-note delete [-h] [--sudo SUDO]
                                                --project-id PROJECT_ID
                                                --mr-iid MR_IID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--id <id>

gitlab project-merge-request-note get

```
usage: gitlab project-merge-request-note get [-h] [--sudo SUDO] --project-id
PROJECT_ID --mr-iid MR_IID --id
ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--id <id>

gitlab project-merge-request-note list

```
usage: gitlab project-merge-request-note list [-h] [--sudo SUDO] --project-id
PROJECT_ID --mr-iid MR_IID
[--page PAGE]
[--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--page <page>

--per-page <per_page>

--all

gitlab project-merge-request-note update

```
usage: gitlab project-merge-request-note update [-h] [--sudo SUDO]
--project-id PROJECT_ID
--mr-iid MR_IID --id ID --body
BODY
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--id <id>
--body <body>

gitlab project-merge-request-note-award-emoji

```
usage: gitlab project-merge-request-note-award-emoji [-h]
                                                    {list,get,create,delete}
                                                    ...
```

-h, --help
show this help message and exit

gitlab project-merge-request-note-award-emoji create

```
usage: gitlab project-merge-request-note-award-emoji create
       [-h] [--sudo SUDO] --project-id PROJECT_ID --mr-iid MR_IID --note-id
       NOTE_ID --name NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--note-id <note_id>

--name <name>

gitlab project-merge-request-note-award-emoji delete

```
usage: gitlab project-merge-request-note-award-emoji delete
       [-h] [--sudo SUDO] --project-id PROJECT_ID --mr-iid MR_IID --note-id
       NOTE_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--note-id <note_id>

--id <id>

gitlab project-merge-request-note-award-emoji get

```
usage: gitlab project-merge-request-note-award-emoji get [-h] [--sudo SUDO]
                                     --project-id
                                     PROJECT_ID --mr-iid
                                     MR_IID --note-id
                                     NOTE_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--note-id <note_id>

--id <id>

gitlab project-merge-request-note-award-emoji list

```
usage: gitlab project-merge-request-note-award-emoji list [-h] [--sudo SUDO]
                                                         --project-id
                                                         PROJECT_ID --mr-iid
                                                         MR_IID --note-id
                                                         NOTE_ID
                                                         [--page PAGE]
                                                         [--per-page PER_PAGE]
                                                         [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--note-id <note_id>

--page <page>

--per-page <per_page>

--all

gitlab project-merge-request-pipeline

```
usage: gitlab project-merge-request-pipeline [-h] {list,create} ...
```

-h, --help

show this help message and exit

gitlab project-merge-request-pipeline create

```
usage: gitlab project-merge-request-pipeline create [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --mr-iid MR_IID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

gitlab project-merge-request-pipeline list

```
usage: gitlab project-merge-request-pipeline list [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --mr-iid MR_IID
                                                    [--page PAGE]
                                                    [--per-page PER_PAGE]
                                                    [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--page <page>

--per-page <per_page>

--all

gitlab project-merge-request-resource-label-event

```
usage: gitlab project-merge-request-resource-label-event [-h] {list,get} ...
```

-h, --help

show this help message and exit

gitlab project-merge-request-resource-label-event get

```
usage: gitlab project-merge-request-resource-label-event get
       [-h] [--sudo SUDO] --project-id PROJECT_ID --mr-iid MR_IID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--id <id>

gitlab project-merge-request-resource-label-event list

```
usage: gitlab project-merge-request-resource-label-event list
       [-h] [--sudo SUDO] --project-id PROJECT_ID --mr-iid MR_IID
       [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--page <page>

--per-page <per_page>

--all

gitlab project-merge-request-resource-milestone-event

```
usage: gitlab project-merge-request-resource-milestone-event
       [-h] {list,get} ...
```

-h, --help

show this help message and exit

gitlab project-merge-request-resource-milestone-event get

```
usage: gitlab project-merge-request-resource-milestone-event get
       [-h] [--sudo SUDO] --project-id PROJECT_ID --mr-iid MR_IID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--id <id>

gitlab project-merge-request-resource-milestone-event list

```
usage: gitlab project-merge-request-resource-milestone-event list
       [-h] [--sudo SUDO] --project-id PROJECT_ID --mr-iid MR_IID
       [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--page <page>

--per-page <per_page>

--all

gitlab project-merge-request-resource-state-event

```
usage: gitlab project-merge-request-resource-state-event [-h] {list,get} ...
```

-h, --help

show this help message and exit

gitlab project-merge-request-resource-state-event get

```
usage: gitlab project-merge-request-resource-state-event get
       [-h] [--sudo SUDO] --project-id PROJECT_ID --mr-iid MR_IID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--id <id>

gitlab project-merge-request-resource-state-event list

```
usage: gitlab project-merge-request-resource-state-event list
       [-h] [--sudo SUDO] --project-id PROJECT_ID --mr-iid MR_IID
       [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--mr-iid <mr_iid>

--page <page>

--per-page <per_page>

--all

gitlab project-merge-train

```
usage: gitlab project-merge-train [-h] {list} ...
```

-h, --help

show this help message and exit

gitlab project-merge-train list

```
usage: gitlab project-merge-train list [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID [--scope SCOPE]
                                         [--page PAGE] [--per-page PER_PAGE]
                                         [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--scope <scope>

--page <page>

--per-page <per_page>

--all

gitlab project-milestone

```
usage: gitlab project-milestone [-h]
                                   {list,get,create,update,delete,issues,merge-requests}
                                   ...
```

-h, --help

show this help message and exit

gitlab project-milestone create

```
usage: gitlab project-milestone create [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --title TITLE
                                         [--description DESCRIPTION]
                                         [--due-date DUE_DATE]
                                         [--start-date START_DATE]
                                         [--state-event STATE_EVENT]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>
--title <title>
--description <description>
--due-date <due_date>
--start-date <start_date>
--state-event <state_event>

gitlab project-milestone delete

```
usage: gitlab project-milestone delete [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --id ID
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--id <id>

gitlab project-milestone get

```
usage: gitlab project-milestone get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                         --id ID
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--id <id>

gitlab project-milestone issues

```
usage: gitlab project-milestone issues [-h] --project-id PROJECT_ID
                                         [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit
--project-id <project_id>
--sudo <sudo>
--id <id>

gitlab project-milestone list

```
usage: gitlab project-milestone list [-h] [--sudo SUDO] --project-id
PROJECT_ID [--iids IIDS] [--state STATE]
[--search SEARCH] [--page PAGE]
[--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--iids <iids>

--state <state>

--search <search>

--page <page>

--per-page <per_page>

--all

gitlab project-milestone merge-requests

```
usage: gitlab project-milestone merge-requests [-h] --project-id PROJECT_ID
[--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-milestone update

```
usage: gitlab project-milestone update [-h] [--sudo SUDO] --project-id
PROJECT_ID --id ID [--title TITLE]
[--description DESCRIPTION]
[--due-date DUE_DATE]
[--start-date START_DATE]
[--state-event STATE_EVENT]
```

-h, --help
show this help message and exit

--sudo <sudo>

```

--project-id <project_id>
--id <id>
--title <title>
--description <description>
--due-date <due_date>
--start-date <start_date>
--state-event <state_event>

```

gitlab project-note

```
usage: gitlab project-note [-h] {list,get} ...
```

```

-h, --help
    show this help message and exit

```

gitlab project-note get

```
usage: gitlab project-note get [-h] [--sudo SUDO] --project-id PROJECT_ID --id
                                ID
```

```

-h, --help
    show this help message and exit

--sudo <sudo>
--project-id <project_id>
--id <id>

```

gitlab project-note list

```
usage: gitlab project-note list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

```

-h, --help
    show this help message and exit

--sudo <sudo>
--project-id <project_id>
--page <page>
--per-page <per_page>
--all

```

gitlab project-notification-settings

```
usage: gitlab project-notification-settings [-h] {get,update} ...
```

-h, --help

show this help message and exit

gitlab project-notification-settings get

```
usage: gitlab project-notification-settings get [-h] [--sudo SUDO]
                                              --project-id PROJECT_ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

gitlab project-notification-settings update

```
usage: gitlab project-notification-settings update [-h] [--sudo SUDO]
                                              --project-id PROJECT_ID
                                              [--level LEVEL]
                                              [--notification-email NOTIFICATION_
↳EMAIL]
                                              [--new-note NEW_NOTE]
                                              [--new-issue NEW_ISSUE]
                                              [--reopen-issue REOPEN_ISSUE]
                                              [--close-issue CLOSE_ISSUE]
                                              [--reassign-issue REASSIGN_ISSUE]
                                              [--new-merge-request NEW_MERGE_
↳REQUEST]
                                              [--reopen-merge-request REOPEN_MERGE_
↳REQUEST]
                                              [--close-merge-request CLOSE_MERGE_
↳REQUEST]
                                              [--reassign-merge-request REASSIGN_
↳MERGE_REQUEST]
                                              [--merge-merge-request MERGE_MERGE_
↳REQUEST]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--level <level>

--notification-email <notification_email>

```

--new-note <new_note>
--new-issue <new_issue>
--reopen-issue <reopen_issue>
--close-issue <close_issue>
--reassign-issue <reassign_issue>
--new-merge-request <new_merge_request>
--reopen-merge-request <reopen_merge_request>
--close-merge-request <close_merge_request>
--reassign-merge-request <reassign_merge_request>
--merge-merge-request <merge_merge_request>

```

gitlab project-package

```
usage: gitlab project-package [-h] {list,get,delete} ...
```

-h, --help
show this help message and exit

gitlab project-package delete

```
usage: gitlab project-package delete [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-package get

```
usage: gitlab project-package get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-package list

```
usage: gitlab project-package list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   [--order-by ORDER_BY] [--sort SORT]
                                   [--package-type PACKAGE_TYPE]
                                   [--package-name PACKAGE_NAME] [--page PAGE]
                                   [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--order-by <order_by>

--sort <sort>

--package-type <package_type>

--package-name <package_name>

--page <page>

--per-page <per_page>

--all

gitlab project-package-file

```
usage: gitlab project-package-file [-h] {list,delete} ...
```

-h, --help
show this help message and exit

gitlab project-package-file delete

```
usage: gitlab project-package-file delete [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --package-id PACKAGE_ID
                                           --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--package-id <package_id>

--id <id>

gitlab project-package-file list

```
usage: gitlab project-package-file list [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --package-id PACKAGE_ID
                                         [--page PAGE] [--per-page PER_PAGE]
                                         [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--package-id <package_id>

--page <page>

--per-page <per_page>

--all

gitlab project-pages-domain

```
usage: gitlab project-pages-domain [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-pages-domain create

```
usage: gitlab project-pages-domain create [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --domain DOMAIN
                                           [--certificate CERTIFICATE]
                                           [--key KEY]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--domain <domain>

--certificate <certificate>

--key <key>

gitlab project-pages-domain delete

```
usage: gitlab project-pages-domain delete [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --domain DOMAIN
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--domain <domain>

gitlab project-pages-domain get

```
usage: gitlab project-pages-domain get [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --domain DOMAIN
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--domain <domain>

gitlab project-pages-domain list

```
usage: gitlab project-pages-domain list [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID [--page PAGE]
                                         [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-pages-domain update

```
usage: gitlab project-pages-domain update [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --domain DOMAIN
                                           [--certificate CERTIFICATE]
                                           [--key KEY]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--domain <domain>

--certificate <certificate>

--key <key>

gitlab project-pipeline

```
usage: gitlab project-pipeline [-h] {list,get,create,delete,cancel,retry} ...
```

-h, --help
show this help message and exit

gitlab project-pipeline cancel

```
usage: gitlab project-pipeline cancel [-h] --project-id PROJECT_ID
                                       [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-pipeline create

```
usage: gitlab project-pipeline create [-h] [--sudo SUDO] --project-id
                                       PROJECT_ID --ref REF
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--ref <ref>

gitlab project-pipeline delete

```
usage: gitlab project-pipeline delete [-h] [--sudo SUDO] --project-id
PROJECT_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-pipeline get

```
usage: gitlab project-pipeline get [-h] [--sudo SUDO] --project-id PROJECT_ID
--id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-pipeline list

```
usage: gitlab project-pipeline list [-h] [--sudo SUDO] --project-id PROJECT_ID
[--scope SCOPE] [--status STATUS]
[--ref REF] [--sha SHA]
[--yaml-errors YAML_ERRORS] [--name NAME]
[--username USERNAME]
[--order-by ORDER_BY] [--sort SORT]
[--page PAGE] [--per-page PER_PAGE]
[--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--scope <scope>

--status <status>

--ref <ref>

--sha <sha>

```

--yaml-errors <yaml_errors>
--name <name>
--username <username>
--order-by <order_by>
--sort <sort>
--page <page>
--per-page <per_page>
--all

```

gitlab project-pipeline retry

```

usage: gitlab project-pipeline retry [-h] --project-id PROJECT_ID
                                     [--sudo SUDO] --id ID

```

```

-h, --help
    show this help message and exit
--project-id <project_id>
--sudo <sudo>
--id <id>

```

gitlab project-pipeline-bridge

```

usage: gitlab project-pipeline-bridge [-h] {list} ...

```

```

-h, --help
    show this help message and exit

```

gitlab project-pipeline-bridge list

```

usage: gitlab project-pipeline-bridge list [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --pipeline-id
                                           PIPELINE_ID [--scope SCOPE]
                                           [--page PAGE] [--per-page PER_PAGE]
                                           [--all]

```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--project-id <project_id>
--pipeline-id <pipeline_id>

```

--scope <scope>
--page <page>
--per-page <per_page>
--all

gitlab project-pipeline-job

```
usage: gitlab project-pipeline-job [-h] {list} ...
```

-h, --help
show this help message and exit

gitlab project-pipeline-job list

```
usage: gitlab project-pipeline-job list [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --pipeline-id PIPELINE_ID
                                         [--scope SCOPE]
                                         [--include-retried INCLUDE_RETRIED]
                                         [--page PAGE] [--per-page PER_PAGE]
                                         [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>
--project-id <project_id>
--pipeline-id <pipeline_id>
--scope <scope>
--include-retried <include_retried>
--page <page>
--per-page <per_page>
--all

gitlab project-pipeline-schedule

```
usage: gitlab project-pipeline-schedule [-h]
                                         {list,get,create,update,delete,take-ownership,
->play}
                                         ...
```

-h, --help
show this help message and exit

gitlab project-pipeline-schedule create

```
usage: gitlab project-pipeline-schedule create [-h] [--sudo SUDO] --project-id
PROJECT_ID --description
DESCRIPTION --ref REF --cron
CRON
[--cron-timezone CRON_TIMEZONE]
[--active ACTIVE]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--description <description>

--ref <ref>

--cron <cron>

--cron-timezone <cron_timezone>

--active <active>

gitlab project-pipeline-schedule delete

```
usage: gitlab project-pipeline-schedule delete [-h] [--sudo SUDO] --project-id
PROJECT_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-pipeline-schedule get

```
usage: gitlab project-pipeline-schedule get [-h] [--sudo SUDO] --project-id
PROJECT_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-pipeline-schedule list

```
usage: gitlab project-pipeline-schedule list [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID [--page PAGE]
                                           [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-pipeline-schedule play

```
usage: gitlab project-pipeline-schedule play [-h] --project-id PROJECT_ID
                                           [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-pipeline-schedule take-ownership

```
usage: gitlab project-pipeline-schedule take-ownership [-h] --project-id
                                                         PROJECT_ID
                                                         [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-pipeline-schedule update

```
usage: gitlab project-pipeline-schedule update [-h] [--sudo SUDO] --project-id
PROJECT_ID --id ID
        [--description DESCRIPTION]
        [--ref REF] [--cron CRON]
        [--cron-timezone CRON_TIMEZONE]
        [--active ACTIVE]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

--description <description>

--ref <ref>

--cron <cron>

--cron-timezone <cron_timezone>

--active <active>

gitlab project-pipeline-schedule-variable

```
usage: gitlab project-pipeline-schedule-variable [-h]
        {create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-pipeline-schedule-variable create

```
usage: gitlab project-pipeline-schedule-variable create [-h] [--sudo SUDO]
        --project-id
        PROJECT_ID
        --pipeline-schedule-id
        PIPELINE_SCHEDULE_ID
        --key KEY --value
        VALUE
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--pipeline-schedule-id <pipeline_schedule_id>
--key <key>
--value <value>

gitlab project-pipeline-schedule-variable delete

```
usage: gitlab project-pipeline-schedule-variable delete [-h] [--sudo SUDO]
                                                         --project-id
                                                         PROJECT_ID
                                                         --pipeline-schedule-id
                                                         PIPELINE_SCHEDULE_ID
                                                         --key KEY
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--pipeline-schedule-id <pipeline_schedule_id>
--key <key>

gitlab project-pipeline-schedule-variable update

```
usage: gitlab project-pipeline-schedule-variable update [-h] [--sudo SUDO]
                                                         --project-id
                                                         PROJECT_ID
                                                         --pipeline-schedule-id
                                                         PIPELINE_SCHEDULE_ID
                                                         --key KEY --value
                                                         VALUE
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--pipeline-schedule-id <pipeline_schedule_id>
--key <key>
--value <value>

gitlab project-pipeline-test-report

```
usage: gitlab project-pipeline-test-report [-h] {get} ...
```

-h, --help

show this help message and exit

gitlab project-pipeline-test-report get

```
usage: gitlab project-pipeline-test-report get [-h] [--sudo SUDO] --project-id
                                               PROJECT_ID --pipeline-id
                                               PIPELINE_ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--pipeline-id <pipeline_id>

gitlab project-pipeline-test-report-summary

```
usage: gitlab project-pipeline-test-report-summary [-h] {get} ...
```

-h, --help

show this help message and exit

gitlab project-pipeline-test-report-summary get

```
usage: gitlab project-pipeline-test-report-summary get [-h] [--sudo SUDO]
                                                       --project-id PROJECT_ID
                                                       --pipeline-id
                                                       PIPELINE_ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--pipeline-id <pipeline_id>

gitlab project-pipeline-variable

```
usage: gitlab project-pipeline-variable [-h] {list} ...
```

-h, --help

show this help message and exit

gitlab project-pipeline-variable list

```
usage: gitlab project-pipeline-variable list [-h] [--sudo SUDO] --project-id
      PROJECT_ID --pipeline-id
      PIPELINE_ID [--page PAGE]
      [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--pipeline-id <pipeline_id>

--page <page>

--per-page <per_page>

--all

gitlab project-protected-branch

```
usage: gitlab project-protected-branch [-h] {list,get,create,delete} ...
```

-h, --help

show this help message and exit

gitlab project-protected-branch create

```
usage: gitlab project-protected-branch create [-h] [--sudo SUDO] --project-id
      PROJECT_ID --name NAME
      [--push-access-level PUSH_ACCESS_LEVEL]
      [--merge-access-level MERGE_ACCESS_LEVEL]
      [--unprotect-access-level UNPROTECT_ACCESS_
↪LEVEL]
      [--allowed-to-push ALLOWED_TO_PUSH]
      [--allowed-to-merge ALLOWED_TO_MERGE]
      [--allowed-to-unprotect ALLOWED_TO_
↪UNPROTECT]
      [--code-owner-approval-required CODE_OWNER_
↪APPROVAL_REQUIRED]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

--push-access-level <push_access_level>

--merge-access-level <merge_access_level>

--unprotect-access-level <unprotect_access_level>

--allowed-to-push <allowed_to_push>

--allowed-to-merge <allowed_to_merge>

--allowed-to-unprotect <allowed_to_unprotect>

--code-owner-approval-required <code_owner_approval_required>

gitlab project-protected-branch delete

```
usage: gitlab project-protected-branch delete [-h] [--sudo SUDO] --project-id
                                             PROJECT_ID --name NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

gitlab project-protected-branch get

```
usage: gitlab project-protected-branch get [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --name NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

gitlab project-protected-branch list

```
usage: gitlab project-protected-branch list [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID [--page PAGE]
                                           [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-protected-tag

```
usage: gitlab project-protected-tag [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab project-protected-tag create

```
usage: gitlab project-protected-tag create [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --name NAME
                                           [--create-access-level CREATE_ACCESS_LEVEL]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

--create-access-level <create_access_level>

gitlab project-protected-tag delete

```
usage: gitlab project-protected-tag delete [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --name NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

gitlab project-protected-tag get

```
usage: gitlab project-protected-tag get [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --name NAME
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

gitlab project-protected-tag list

```
usage: gitlab project-protected-tag list [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID [--page PAGE]
                                         [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-push-rules

```
usage: gitlab project-push-rules [-h] {get,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab project-push-rules create

```
usage: gitlab project-push-rules create [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID
                                         [--deny-delete-tag DENY_DELETE_TAG]
                                         [--member-check MEMBER_CHECK]
                                         [--prevent-secrets PREVENT_SECRETS]
                                         [--commit-message-regex COMMIT_MESSAGE_REGEX]
                                         [--branch-name-regex BRANCH_NAME_REGEX]
                                         [--author-email-regex AUTHOR_EMAIL_REGEX]
                                         [--file-name-regex FILE_NAME_REGEX]
                                         [--max-file-size MAX_FILE_SIZE]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--deny-delete-tag <deny_delete_tag>

--member-check <member_check>

--prevent-secrets <prevent_secrets>

--commit-message-regex <commit_message_regex>

--branch-name-regex <branch_name_regex>

--author-email-regex <author_email_regex>

--file-name-regex <file_name_regex>

--max-file-size <max_file_size>

gitlab project-push-rules delete

```
usage: gitlab project-push-rules delete [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

gitlab project-push-rules get

```
usage: gitlab project-push-rules get [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

gitlab project-push-rules update

```
usage: gitlab project-push-rules update [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID
                                     [--deny-delete-tag DENY_DELETE_TAG]
                                     [--member-check MEMBER_CHECK]
                                     [--prevent-secrets PREVENT_SECRETS]
                                     [--commit-message-regex COMMIT_MESSAGE_REGEX]
                                     [--branch-name-regex BRANCH_NAME_REGEX]
                                     [--author-email-regex AUTHOR_EMAIL_REGEX]
                                     [--file-name-regex FILE_NAME_REGEX]
                                     [--max-file-size MAX_FILE_SIZE]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--deny-delete-tag <deny_delete_tag>

--member-check <member_check>

--prevent-secrets <prevent_secrets>

--commit-message-regex <commit_message_regex>

--branch-name-regex <branch_name_regex>

--author-email-regex <author_email_regex>

--file-name-regex <file_name_regex>

--max-file-size <max_file_size>

gitlab project-registry-repository

```
usage: gitlab project-registry-repository [-h] {list,delete} ...
```

-h, --help

show this help message and exit

gitlab project-registry-repository delete

```
usage: gitlab project-registry-repository delete [-h] [--sudo SUDO]
                                                --project-id PROJECT_ID --id
                                                ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-registry-repository list

```
usage: gitlab project-registry-repository list [-h] [--sudo SUDO] --project-id
                                                PROJECT_ID [--page PAGE]
                                                [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-registry-tag

```
usage: gitlab project-registry-tag [-h] {list,get,delete,delete-in-bulk} ...
```

-h, --help

show this help message and exit

gitlab project-registry-tag delete

```
usage: gitlab project-registry-tag delete [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --repository-id
                                           REPOSITORY_ID --name NAME
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--repository-id <repository_id>

--name <name>

gitlab project-registry-tag delete-in-bulk

```
usage: gitlab project-registry-tag delete-in-bulk [-h] --project-id PROJECT_ID
                                                    --repository-id
                                                    REPOSITORY_ID [--sudo SUDO]
                                                    --name NAME
                                                    --name-regex-delete
                                                    NAME_REGEX_DELETE
                                                    [--keep-n KEEP_N]
                                                    [--name-regex-keep NAME_REGEX_KEEP]
                                                    [--older-than OLDER_THAN]
```

-h, --help

show this help message and exit

--project-id <project_id>

--repository-id <repository_id>

--sudo <sudo>

--name <name>

--name-regex-delete <name_regex_delete>

--keep-n <keep_n>

--name-regex-keep <name_regex_keep>

--older-than <older_than>

gitlab project-registry-tag get

```
usage: gitlab project-registry-tag get [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --repository-id
                                         REPOSITORY_ID --name NAME
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--repository-id <repository_id>

--name <name>

gitlab project-registry-tag list

```
usage: gitlab project-registry-tag list [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --repository-id
                                         REPOSITORY_ID [--page PAGE]
                                         [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--repository-id <repository_id>

--page <page>

--per-page <per_page>

--all

gitlab project-release

```
usage: gitlab project-release [-h] {list,get,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab project-release create

```
usage: gitlab project-release create [-h] [--sudo SUDO] --project-id
PROJECT_ID --tag-name TAG_NAME
--description DESCRIPTION [--name NAME]
[--ref REF] [--assets ASSETS]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--tag-name <tag_name>

--description <description>

--name <name>

--ref <ref>

--assets <assets>

gitlab project-release delete

```
usage: gitlab project-release delete [-h] [--sudo SUDO] --project-id
PROJECT_ID --tag-name TAG_NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--tag-name <tag_name>

gitlab project-release get

```
usage: gitlab project-release get [-h] [--sudo SUDO] --project-id PROJECT_ID
--tag-name TAG_NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--tag-name <tag_name>

gitlab project-release list

```
usage: gitlab project-release list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-release update

```
usage: gitlab project-release update [-h] [--sudo SUDO] --project-id
PROJECT_ID --tag-name TAG_NAME
                                   [--name NAME] [--description DESCRIPTION]
                                   [--milestones MILESTONES]
                                   [--released-at RELEASED_AT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--tag-name <tag_name>

--name <name>

--description <description>

--milestones <milestones>

--released-at <released_at>

gitlab project-release-link

```
usage: gitlab project-release-link [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-release-link create

```
usage: gitlab project-release-link create [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --tag-name TAG_NAME
                                         --name NAME --url URL
                                         [--filepath FILEPATH]
                                         [--link-type LINK_TYPE]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--tag-name <tag_name>

--name <name>

--url <url>

--filepath <filepath>

--link-type <link_type>

gitlab project-release-link delete

```
usage: gitlab project-release-link delete [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --tag-name TAG_NAME --id
                                         ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--tag-name <tag_name>

--id <id>

gitlab project-release-link get

```
usage: gitlab project-release-link get [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --tag-name TAG_NAME --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--tag-name <tag_name>

--id <id>

gitlab project-release-link list

```
usage: gitlab project-release-link list [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --tag-name TAG_NAME
                                         [--page PAGE] [--per-page PER_PAGE]
                                         [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--tag-name <tag_name>

--page <page>

--per-page <per_page>

--all

gitlab project-release-link update

```
usage: gitlab project-release-link update [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --tag-name TAG_NAME --id
                                           ID [--name NAME] [--url URL]
                                           [--filepath FILEPATH]
                                           [--link-type LINK_TYPE]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--tag-name <tag_name>

--id <id>

--name <name>

--url <url>

--filepath <filepath>

--link-type <link_type>

gitlab project-remote-mirror

```
usage: gitlab project-remote-mirror [-h] {list,create,update} ...
```

-h, --help

show this help message and exit

gitlab project-remote-mirror create

```
usage: gitlab project-remote-mirror create [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --url URL
                                           [--enabled ENABLED]
                                           [--only-protected-branches ONLY_PROTECTED_
↪BRANCHES]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--url <url>

--enabled <enabled>

--only-protected-branches <only_protected_branches>

gitlab project-remote-mirror list

```
usage: gitlab project-remote-mirror list [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID [--page PAGE]
                                           [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-remote-mirror update

```
usage: gitlab project-remote-mirror update [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --id ID
                                           [--enabled ENABLED]
                                           [--only-protected-branches ONLY_PROTECTED_
↪BRANCHES]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

--enabled <enabled>

--only-protected-branches <only_protected_branches>

gitlab project-runner

```
usage: gitlab project-runner [-h] {list,create,delete} ...
```

-h, --help

show this help message and exit

gitlab project-runner create

```
usage: gitlab project-runner create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                     --runner-id RUNNER_ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--runner-id <runner_id>

gitlab project-runner delete

```
usage: gitlab project-runner delete [-h] [--sudo SUDO] --project-id PROJECT_ID
                                     --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-runner list

```
usage: gitlab project-runner list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   [--scope SCOPE] [--tag-list TAG_LIST]
                                   [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--scope <scope>

--tag-list <tag_list>

--page <page>

--per-page <per_page>

--all

gitlab project-service

```
usage: gitlab project-service [-h] {list,get,update,delete,available} ...
```

-h, --help

show this help message and exit

gitlab project-service available

```
usage: gitlab project-service available [-h] --project-id PROJECT_ID
                                         [--sudo SUDO] --slug SLUG
```

-h, --help

show this help message and exit

--project-id <project_id>

--sudo <sudo>

--slug <slug>

gitlab project-service delete

```
usage: gitlab project-service delete [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --slug SLUG
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--slug <slug>

gitlab project-service get

```
usage: gitlab project-service get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --slug SLUG
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--slug <slug>

gitlab project-service list

```
usage: gitlab project-service list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-service update

```
usage: gitlab project-service update [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --slug SLUG
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--slug <slug>

gitlab project-snippet

```
usage: gitlab project-snippet [-h]
                               {list,get,create,update,delete,user-agent-detail,content}
                               ...
```

-h, --help
show this help message and exit

gitlab project-snippet content

```
usage: gitlab project-snippet content [-h] --project-id PROJECT_ID
                                       [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-snippet create

```
usage: gitlab project-snippet create [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --title TITLE --file-name
                                     FILE_NAME --content CONTENT --visibility
                                     VISIBILITY [--description DESCRIPTION]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--title <title>
--file-name <file_name>
--content <content>
--visibility <visibility>
--description <description>

gitlab project-snippet delete

```
usage: gitlab project-snippet delete [-h] [--sudo SUDO] --project-id
PROJECT_ID --id ID
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--id <id>

gitlab project-snippet get

```
usage: gitlab project-snippet get [-h] [--sudo SUDO] --project-id PROJECT_ID
--id ID
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--id <id>

gitlab project-snippet list

```
usage: gitlab project-snippet list [-h] [--sudo SUDO] --project-id PROJECT_ID
[--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--page <page>
--per-page <per_page>
--all

gitlab project-snippet update

```
usage: gitlab project-snippet update [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --id ID [--title TITLE]
                                     [--file-name FILE_NAME]
                                     [--content CONTENT]
                                     [--visibility VISIBILITY]
                                     [--description DESCRIPTION]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

--title <title>

--file-name <file_name>

--content <content>

--visibility <visibility>

--description <description>

gitlab project-snippet user-agent-detail

```
usage: gitlab project-snippet user-agent-detail [-h] --project-id PROJECT_ID
                                                [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--project-id <project_id>

--sudo <sudo>

--id <id>

gitlab project-snippet-award-emoji

```
usage: gitlab project-snippet-award-emoji [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab project-snippet-award-emoji create

```
usage: gitlab project-snippet-award-emoji create [-h] [--sudo SUDO]
                                                --project-id PROJECT_ID
                                                --snippet-id SNIPPET_ID
                                                --name NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--snippet-id <snippet_id>

--name <name>

gitlab project-snippet-award-emoji delete

```
usage: gitlab project-snippet-award-emoji delete [-h] [--sudo SUDO]
                                                --project-id PROJECT_ID
                                                --snippet-id SNIPPET_ID --id
                                                ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--snippet-id <snippet_id>

--id <id>

gitlab project-snippet-award-emoji get

```
usage: gitlab project-snippet-award-emoji get [-h] [--sudo SUDO] --project-id
                                                PROJECT_ID --snippet-id
                                                SNIPPET_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--snippet-id <snippet_id>

--id <id>

gitlab project-snippet-award-emoji list

```
usage: gitlab project-snippet-award-emoji list [-h] [--sudo SUDO] --project-id
PROJECT_ID --snippet-id
SNIPPET_ID [--page PAGE]
[--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>**--project-id** <project_id>**--snippet-id** <snippet_id>**--page** <page>**--per-page** <per_page>**--all**

gitlab project-snippet-discussion

```
usage: gitlab project-snippet-discussion [-h] {list,get,create} ...
```

-h, --help

show this help message and exit

gitlab project-snippet-discussion create

```
usage: gitlab project-snippet-discussion create [-h] [--sudo SUDO]
--project-id PROJECT_ID
--snippet-id SNIPPET_ID --body
BODY [--created-at CREATED_AT]
```

-h, --help

show this help message and exit

--sudo <sudo>**--project-id** <project_id>**--snippet-id** <snippet_id>**--body** <body>**--created-at** <created_at>

gitlab project-snippet-discussion get

```
usage: gitlab project-snippet-discussion get [-h] [--sudo SUDO] --project-id
      PROJECT_ID --snippet-id
      SNIPPET_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--snippet-id <snippet_id>

--id <id>

gitlab project-snippet-discussion list

```
usage: gitlab project-snippet-discussion list [-h] [--sudo SUDO] --project-id
      PROJECT_ID --snippet-id
      SNIPPET_ID [--page PAGE]
      [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--snippet-id <snippet_id>

--page <page>

--per-page <per_page>

--all

gitlab project-snippet-discussion-note

```
usage: gitlab project-snippet-discussion-note [-h]
      {get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-snippet-discussion-note create

```
usage: gitlab project-snippet-discussion-note create [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --snippet-id SNIPPET_ID
                                                    --discussion-id
DISCUSSION_ID --body BODY
                                                    [--created-at CREATED_AT]
```

-h, --help

show this help message and exit

--sudo <sudo>**--project-id** <project_id>**--snippet-id** <snippet_id>**--discussion-id** <discussion_id>**--body** <body>**--created-at** <created_at>

gitlab project-snippet-discussion-note delete

```
usage: gitlab project-snippet-discussion-note delete [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --snippet-id SNIPPET_ID
                                                    --discussion-id
DISCUSSION_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>**--project-id** <project_id>**--snippet-id** <snippet_id>**--discussion-id** <discussion_id>**--id** <id>

gitlab project-snippet-discussion-note get

```
usage: gitlab project-snippet-discussion-note get [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --snippet-id SNIPPET_ID
                                                    --discussion-id
DISCUSSION_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--snippet-id <snippet_id>

--discussion-id <discussion_id>

--id <id>

gitlab project-snippet-discussion-note update

```
usage: gitlab project-snippet-discussion-note update [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --snippet-id SNIPPET_ID
                                                    --discussion-id
DISCUSSION_ID --id ID
                                                    --body BODY
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--snippet-id <snippet_id>

--discussion-id <discussion_id>

--id <id>

--body <body>

gitlab project-snippet-note

```
usage: gitlab project-snippet-note [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-snippet-note create

```
usage: gitlab project-snippet-note create [-h] [--sudo SUDO] --project-id
PROJECT_ID --snippet-id SNIPPET_ID
--body BODY
```

-h, --help
show this help message and exit

--sudo <sudo>
--project-id <project_id>
--snippet-id <snippet_id>
--body <body>

gitlab project-snippet-note delete

```
usage: gitlab project-snippet-note delete [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --snippet-id SNIPPET_ID
                                           --id ID
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--snippet-id <snippet_id>
--id <id>

gitlab project-snippet-note get

```
usage: gitlab project-snippet-note get [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --snippet-id SNIPPET_ID --id
                                         ID
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--snippet-id <snippet_id>
--id <id>

gitlab project-snippet-note list

```
usage: gitlab project-snippet-note list [-h] [--sudo SUDO] --project-id
                                         PROJECT_ID --snippet-id SNIPPET_ID
                                         [--page PAGE] [--per-page PER_PAGE]
                                         [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>
--project-id <project_id>
--snippet-id <snippet_id>
--page <page>
--per-page <per_page>
--all

gitlab project-snippet-note update

```
usage: gitlab project-snippet-note update [-h] [--sudo SUDO] --project-id
                                           PROJECT_ID --snippet-id SNIPPET_ID
                                           --id ID --body BODY
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--snippet-id <snippet_id>
--id <id>
--body <body>

gitlab project-snippet-note-award-emoji

```
usage: gitlab project-snippet-note-award-emoji [-h]
                                                {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab project-snippet-note-award-emoji create

```
usage: gitlab project-snippet-note-award-emoji create [-h] [--sudo SUDO]
                                                       --project-id PROJECT_ID
                                                       --snippet-id SNIPPET_ID
                                                       --note-id NOTE_ID --name
                                                       NAME
```

-h, --help
show this help message and exit
--sudo <sudo>

--project-id <project_id>
--snippet-id <snippet_id>
--note-id <note_id>
--name <name>

gitlab project-snippet-note-award-emoji delete

```
usage: gitlab project-snippet-note-award-emoji delete [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --snippet-id SNIPPET_ID
                                                    --note-id NOTE_ID --id
                                                    ID
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--snippet-id <snippet_id>
--note-id <note_id>
--id <id>

gitlab project-snippet-note-award-emoji get

```
usage: gitlab project-snippet-note-award-emoji get [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --snippet-id SNIPPET_ID
                                                    --note-id NOTE_ID --id ID
```

-h, --help
show this help message and exit
--sudo <sudo>
--project-id <project_id>
--snippet-id <snippet_id>
--note-id <note_id>
--id <id>

gitlab project-snippet-note-award-emoji list

```
usage: gitlab project-snippet-note-award-emoji list [-h] [--sudo SUDO]
                                                    --project-id PROJECT_ID
                                                    --snippet-id SNIPPET_ID
                                                    --note-id NOTE_ID
                                                    [--page PAGE]
                                                    [--per-page PER_PAGE]
                                                    [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--snippet-id <snippet_id>

--note-id <note_id>

--page <page>

--per-page <per_page>

--all

gitlab project-tag

```
usage: gitlab project-tag [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab project-tag create

```
usage: gitlab project-tag create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --tag-name TAG_NAME --ref REF
                                [--message MESSAGE]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--tag-name <tag_name>

--ref <ref>

--message <message>

gitlab project-tag delete

```
usage: gitlab project-tag delete [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --name NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

gitlab project-tag get

```
usage: gitlab project-tag get [-h] [--sudo SUDO] --project-id PROJECT_ID
                              --name NAME
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--name <name>

gitlab project-tag list

```
usage: gitlab project-tag list [-h] [--sudo SUDO] --project-id PROJECT_ID
                               [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-trigger

```
usage: gitlab project-trigger [-h] {list,get,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab project-trigger create

```
usage: gitlab project-trigger create [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --description DESCRIPTION
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--description <description>

gitlab project-trigger delete

```
usage: gitlab project-trigger delete [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-trigger get

```
usage: gitlab project-trigger get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

gitlab project-trigger list

```
usage: gitlab project-trigger list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-trigger update

```
usage: gitlab project-trigger update [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --id ID --description
                                     DESCRIPTION
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--id <id>

--description <description>

gitlab project-user

```
usage: gitlab project-user [-h] {list} ...
```

-h, --help
show this help message and exit

gitlab project-user list

```
usage: gitlab project-user list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                [--search SEARCH] [--skip-users SKIP_USERS]
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>
--search <search>
--skip-users <skip_users>
--page <page>
--per-page <per_page>
--all

gitlab project-variable

```
usage: gitlab project-variable [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-variable create

```
usage: gitlab project-variable create [-h] [--sudo SUDO] --project-id  
PROJECT_ID --key KEY --value VALUE  
[--protected PROTECTED]  
[--variable-type VARIABLE_TYPE]  
[--masked MASKED]  
[--environment-scope ENVIRONMENT_SCOPE]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--key <key>

--value <value>

--protected <protected>

--variable-type <variable_type>

--masked <masked>

--environment-scope <environment_scope>

gitlab project-variable delete

```
usage: gitlab project-variable delete [-h] [--sudo SUDO] --project-id
PROJECT_ID --key KEY
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--key <key>

gitlab project-variable get

```
usage: gitlab project-variable get [-h] [--sudo SUDO] --project-id PROJECT_ID
--key KEY
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--key <key>

gitlab project-variable list

```
usage: gitlab project-variable list [-h] [--sudo SUDO] --project-id PROJECT_ID
[--page PAGE] [--per-page PER_PAGE]
[--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--page <page>

--per-page <per_page>

--all

gitlab project-variable update

```
usage: gitlab project-variable update [-h] [--sudo SUDO] --project-id
                                     PROJECT_ID --key KEY --value VALUE
                                     [--protected PROTECTED]
                                     [--variable-type VARIABLE_TYPE]
                                     [--masked MASKED]
                                     [--environment-scope ENVIRONMENT_SCOPE]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--key <key>

--value <value>

--protected <protected>

--variable-type <variable_type>

--masked <masked>

--environment-scope <environment_scope>

gitlab project-wiki

```
usage: gitlab project-wiki [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab project-wiki create

```
usage: gitlab project-wiki create [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --title TITLE --content CONTENT
                                   [--format FORMAT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--title <title>

--content <content>

--format <format>

gitlab project-wiki delete

```
usage: gitlab project-wiki delete [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --slug SLUG
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--slug <slug>

gitlab project-wiki get

```
usage: gitlab project-wiki get [-h] [--sudo SUDO] --project-id PROJECT_ID
                                --slug SLUG
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--slug <slug>

gitlab project-wiki list

```
usage: gitlab project-wiki list [-h] [--sudo SUDO] --project-id PROJECT_ID
                                [--with-content WITH_CONTENT] [--page PAGE]
                                [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--with-content <with_content>

--page <page>

--per-page <per_page>

--all

gitlab project-wiki update

```
usage: gitlab project-wiki update [-h] [--sudo SUDO] --project-id PROJECT_ID
                                   --slug SLUG [--title TITLE]
                                   [--content CONTENT] [--format FORMAT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--project-id <project_id>

--slug <slug>

--title <title>

--content <content>

--format <format>

gitlab runner

```
usage: gitlab runner [-h] {list,get,create,update,delete,all,verify} ...
```

-h, --help
show this help message and exit

gitlab runner all

```
usage: gitlab runner all [-h] --id ID [--scope SCOPE]
```

-h, --help
show this help message and exit

--id <id>

--scope <scope>

gitlab runner create

```
usage: gitlab runner create [-h] [--sudo SUDO] --token TOKEN
                             [--description DESCRIPTION] [--info INFO]
                             [--active ACTIVE] [--locked LOCKED]
                             [--run-untagged RUN_UNTAGGED]
                             [--tag-list TAG_LIST]
                             [--access-level ACCESS_LEVEL]
                             [--maximum-timeout MAXIMUM_TIMEOUT]
```

-h, --help
show this help message and exit

```

--sudo <sudo>
--token <token>
--description <description>
--info <info>
--active <active>
--locked <locked>
--run-untagged <run_untagged>
--tag-list <tag_list>
--access-level <access_level>
--maximum-timeout <maximum_timeout>

```

gitlab runner delete

```
usage: gitlab runner delete [-h] [--sudo SUDO] --id ID
```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--id <id>

```

gitlab runner get

```
usage: gitlab runner get [-h] [--sudo SUDO] --id ID
```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--id <id>

```

gitlab runner list

```
usage: gitlab runner list [-h] [--sudo SUDO] [--scope SCOPE]
                        [--tag-list TAG_LIST] [--page PAGE]
                        [--per-page PER_PAGE] [--all]
```

```

-h, --help
    show this help message and exit
--sudo <sudo>

```

--scope <scope>
--tag-list <tag_list>
--page <page>
--per-page <per_page>
--all

gitlab runner update

```
usage: gitlab runner update [-h] [--sudo SUDO] --id ID
                             [--description DESCRIPTION] [--active ACTIVE]
                             [--tag-list TAG_LIST]
                             [--run-untagged RUN_UNTAGGED] [--locked LOCKED]
                             [--access-level ACCESS_LEVEL]
                             [--maximum-timeout MAXIMUM_TIMEOUT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

--description <description>

--active <active>

--tag-list <tag_list>

--run-untagged <run_untagged>

--locked <locked>

--access-level <access_level>

--maximum-timeout <maximum_timeout>

gitlab runner verify

```
usage: gitlab runner verify [-h] --id ID --token TOKEN
```

-h, --help
show this help message and exit

--id <id>

--token <token>

gitlab runner-job

```
usage: gitlab runner-job [-h] {list} ...
```

-h, --help

show this help message and exit

gitlab runner-job list

```
usage: gitlab runner-job list [-h] [--sudo SUDO] --runner-id RUNNER_ID
                               [--status STATUS] [--page PAGE]
                               [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--runner-id <runner_id>

--status <status>

--page <page>

--per-page <per_page>

--all

gitlab snippet

```
usage: gitlab snippet [-h]
                      {list,get,create,update,delete,user-agent-detail,content,public}
                      ...
```

-h, --help

show this help message and exit

gitlab snippet content

```
usage: gitlab snippet content [-h] --id ID
```

-h, --help

show this help message and exit

--id <id>

gitlab snippet create

```
usage: gitlab snippet create [-h] [--sudo SUDO] --title TITLE --file-name
                             FILE_NAME --content CONTENT [--lifetime LIFETIME]
                             [--visibility VISIBILITY]
```

-h, --help
show this help message and exit

--sudo <sudo>

--title <title>

--file-name <file_name>

--content <content>

--lifetime <lifetime>

--visibility <visibility>

gitlab snippet delete

```
usage: gitlab snippet delete [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab snippet get

```
usage: gitlab snippet get [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab snippet list

```
usage: gitlab snippet list [-h] [--sudo SUDO] [--page PAGE]
                           [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--page <page>
--per-page <per_page>
--all

gitlab snippet public

```
usage: gitlab snippet public [-h] --id ID
```

-h, --help
show this help message and exit
--id <id>

gitlab snippet update

```
usage: gitlab snippet update [-h] [--sudo SUDO] --id ID [--title TITLE]
                             [--file-name FILE_NAME] [--content CONTENT]
                             [--visibility VISIBILITY]
```

-h, --help
show this help message and exit
--sudo <sudo>
--id <id>
--title <title>
--file-name <file_name>
--content <content>
--visibility <visibility>

gitlab snippet user-agent-detail

```
usage: gitlab snippet user-agent-detail [-h] --id ID
```

-h, --help
show this help message and exit
--id <id>

gitlab starred-project

```
usage: gitlab starred-project [-h] {list} ...
```

-h, --help

show this help message and exit

gitlab starred-project list

```
usage: gitlab starred-project list [-h] [--sudo SUDO] --user-id USER_ID
                                     [--archived ARCHIVED]
                                     [--membership MEMBERSHIP]
                                     [--min-access-level MIN_ACCESS_LEVEL]
                                     [--order-by ORDER_BY] [--owned OWNED]
                                     [--search SEARCH] [--simple SIMPLE]
                                     [--sort SORT] [--starred STARRED]
                                     [--statistics STATISTICS]
                                     [--visibility VISIBILITY]
                                     [--with-custom-attributes WITH_CUSTOM_ATTRIBUTES]
                                     [--with-issues-enabled WITH_ISSUES_ENABLED]
                                     --with-merge-requests-enabled WITH_MERGE_REQUESTS_
                                     ↪ENABLED]
                                     [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--user-id <user_id>

--archived <archived>

--membership <membership>

--min-access-level <min_access_level>

--order-by <order_by>

--owned <owned>

--search <search>

--simple <simple>

--sort <sort>

--starred <starred>

--statistics <statistics>

--visibility <visibility>

--with-custom-attributes <with_custom_attributes>

```

--with-issues-enabled <with_issues_enabled>
--with-merge-requests-enabled <with_merge_requests_enabled>
--page <page>
--per-page <per_page>
--all

```

gitlab todo

```
usage: gitlab todo [-h] {list,delete,mark-as-done,mark-all-as-done} ...
```

```

-h, --help
    show this help message and exit

```

gitlab todo delete

```
usage: gitlab todo delete [-h] [--sudo SUDO] --id ID
```

```

-h, --help
    show this help message and exit

--sudo <sudo>
--id <id>

```

gitlab todo list

```
usage: gitlab todo list [-h] [--sudo SUDO] [--action ACTION]
                        [--author-id AUTHOR_ID] [--project-id PROJECT_ID]
                        [--state STATE] [--type TYPE] [--page PAGE]
                        [--per-page PER_PAGE] [--all]
```

```

-h, --help
    show this help message and exit

--sudo <sudo>
--action <action>
--author-id <author_id>
--project-id <project_id>
--state <state>
--type <type>
--page <page>
--per-page <per_page>
--all

```

gitlab todo mark-all-as-done

```
usage: gitlab todo mark-all-as-done [-h] --id ID
```

-h, --help
show this help message and exit

--id <id>

gitlab todo mark-as-done

```
usage: gitlab todo mark-as-done [-h] --id ID
```

-h, --help
show this help message and exit

--id <id>

gitlab topic

```
usage: gitlab topic [-h] {list,get,create,update,delete} ...
```

-h, --help
show this help message and exit

gitlab topic create

```
usage: gitlab topic create [-h] [--sudo SUDO] --name NAME [--avatar AVATAR]
                        [--description DESCRIPTION]
```

-h, --help
show this help message and exit

--sudo <sudo>

--name <name>

--avatar <avatar>

--description <description>

gitlab topic delete

```
usage: gitlab topic delete [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab topic get

```
usage: gitlab topic get [-h] [--sudo SUDO] --id ID
```

-h, --help

show this help message and exit

--sudo <sudo>

--id <id>

gitlab topic list

```
usage: gitlab topic list [-h] [--sudo SUDO] [--page PAGE]
                        [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab topic update

```
usage: gitlab topic update [-h] [--sudo SUDO] --id ID [--avatar AVATAR]
                          [--description DESCRIPTION] [--name NAME]
```

-h, --help

show this help message and exit

--sudo <sudo>

--id <id>

--avatar <avatar>

--description <description>

--name <name>

gitlab user

```
usage: gitlab user [-h]
                  {list,get,create,update,delete,block,unblock,
↪ deactivate,activate}
                  ...
```

-h, --help

show this help message and exit

gitlab user activate

```
usage: gitlab user activate [-h] --id ID
```

-h, --help

show this help message and exit

--id <id>

gitlab user block

```
usage: gitlab user block [-h] --id ID
```

-h, --help

show this help message and exit

--id <id>

gitlab user create

```
usage: gitlab user create [-h] [--sudo SUDO] [--email EMAIL]
                          [--username USERNAME] [--name NAME]
                          [--password PASSWORD]
                          [--reset-password RESET_PASSWORD] [--skype SKYPE]
                          [--linkedin LINKEDIN] [--twitter TWITTER]
                          [--projects-limit PROJECTS_LIMIT]
                          [--extern-uid EXTERN_UID] [--provider PROVIDER]
                          [--bio BIO] [--admin ADMIN]
                          [--can-create-group CAN_CREATE_GROUP]
                          [--website-url WEBSITE_URL]
                          [--skip-confirmation SKIP_CONFIRMATION]
                          [--external EXTERNAL] [--organization ORGANIZATION]
                          [--location LOCATION] [--avatar AVATAR]
                          [--public-email PUBLIC_EMAIL]
                          [--private-profile PRIVATE_PROFILE]
                          [--color-scheme-id COLOR_SCHEME_ID]
                          [--theme-id THEME_ID]
```

-h, --help

show this help message and exit

```
--sudo <sudo>
--email <email>
--username <username>
--name <name>
--password <password>
--reset-password <reset_password>
--skype <skype>
--linkedin <linkedin>
--twitter <twitter>
--projects-limit <projects_limit>
--extern-uid <extern_uid>
--provider <provider>
--bio <bio>
--admin <admin>
--can-create-group <can_create_group>
--website-url <website_url>
--skip-confirmation <skip_confirmation>
--external <external>
--organization <organization>
--location <location>
--avatar <avatar>
--public-email <public_email>
--private-profile <private_profile>
--color-scheme-id <color_scheme_id>
--theme-id <theme_id>
```

gitlab user deactivate

```
usage: gitlab user deactivate [-h] --id ID
```

```
-h, --help
    show this help message and exit
--id <id>
```

gitlab user delete

```
usage: gitlab user delete [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab user follow

```
usage: gitlab user follow [-h] --id ID
```

-h, --help
show this help message and exit

--id <id>

gitlab user get

```
usage: gitlab user get [-h] [--sudo SUDO] --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--id <id>

gitlab user list

```
usage: gitlab user list [-h] [--sudo SUDO] [--active ACTIVE]
                        [--blocked BLOCKED] [--username USERNAME]
                        [--extern-uid EXTERN_UID] [--provider PROVIDER]
                        [--external EXTERNAL] [--search SEARCH]
                        [--custom-attributes CUSTOM_ATTRIBUTES]
                        [--status STATUS] [--two-factor TWO_FACTOR]
                        [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--active <active>

--blocked <blocked>

--username <username>

```

--extern-uid <extern_uid>
--provider <provider>
--external <external>
--search <search>
--custom-attributes <custom_attributes>
--status <status>
--two-factor <two_factor>
--page <page>
--per-page <per_page>
--all

```

gitlab user unblock

```
usage: gitlab user unblock [-h] --id ID
```

```

-h, --help
    show this help message and exit
--id <id>

```

gitlab user unfollow

```
usage: gitlab user unfollow [-h] --id ID
```

```

-h, --help
    show this help message and exit
--id <id>

```

gitlab user update

```

usage: gitlab user update [-h] [--sudo SUDO] --id ID --email EMAIL --username
                        USERNAME --name NAME [--password PASSWORD]
                        [--skype SKYPE] [--linkedin LINKEDIN]
                        [--twitter TWITTER]
                        [--projects-limit PROJECTS_LIMIT]
                        [--extern-uid EXTERN_UID] [--provider PROVIDER]
                        [--bio BIO] [--admin ADMIN]
                        [--can-create-group CAN_CREATE_GROUP]
                        [--website-url WEBSITE_URL]
                        [--skip-reconfirmation SKIP_RECONFIRMATION]
                        [--external EXTERNAL] [--organization ORGANIZATION]
                        [--location LOCATION] [--avatar AVATAR]

```

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```
[--public-email PUBLIC_EMAIL]
[--private-profile PRIVATE_PROFILE]
[--color-scheme-id COLOR_SCHEME_ID]
[--theme-id THEME_ID]
```

```
-h, --help
    show this help message and exit

--sudo <sudo>

--id <id>

--email <email>

--username <username>

--name <name>

--password <password>

--skype <skype>

--linkedin <linkedin>

--twitter <twitter>

--projects-limit <projects_limit>

--extern-uid <extern_uid>

--provider <provider>

--bio <bio>

--admin <admin>

--can-create-group <can_create_group>

--website-url <website_url>

--skip-reconfirmation <skip_reconfirmation>

--external <external>

--organization <organization>

--location <location>

--avatar <avatar>

--public-email <public_email>

--private-profile <private_profile>

--color-scheme-id <color_scheme_id>

--theme-id <theme_id>
```

gitlab user-activities

```
usage: gitlab user-activities [-h] {list} ...
```

-h, --help

show this help message and exit

gitlab user-activities list

```
usage: gitlab user-activities list [-h] [--sudo SUDO] [--page PAGE]
                                     [--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab user-custom-attribute

```
usage: gitlab user-custom-attribute [-h] {list,get,delete} ...
```

-h, --help

show this help message and exit

gitlab user-custom-attribute delete

```
usage: gitlab user-custom-attribute delete [-h] [--sudo SUDO] --user-id
                                             USER_ID --key KEY
```

-h, --help

show this help message and exit

--sudo <sudo>

--user-id <user_id>

--key <key>

gitlab user-custom-attribute get

```
usage: gitlab user-custom-attribute get [-h] [--sudo SUDO] --user-id USER_ID
                                         --key KEY
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--key <key>

gitlab user-custom-attribute list

```
usage: gitlab user-custom-attribute list [-h] [--sudo SUDO] --user-id USER_ID
                                         [--page PAGE] [--per-page PER_PAGE]
                                         [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--page <page>

--per-page <per_page>

--all

gitlab user-email

```
usage: gitlab user-email [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab user-email create

```
usage: gitlab user-email create [-h] [--sudo SUDO] --user-id USER_ID --email
                                EMAIL
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--email <email>

gitlab user-email delete

```
usage: gitlab user-email delete [-h] [--sudo SUDO] --user-id USER_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--id <id>

gitlab user-email get

```
usage: gitlab user-email get [-h] [--sudo SUDO] --user-id USER_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--id <id>

gitlab user-email list

```
usage: gitlab user-email list [-h] [--sudo SUDO] --user-id USER_ID
                             [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--page <page>

--per-page <per_page>

--all

gitlab user-event

```
usage: gitlab user-event [-h] {list} ...
```

-h, --help
show this help message and exit

gitlab user-event list

```
usage: gitlab user-event list [-h] [--sudo SUDO] --user-id USER_ID
                               [--action ACTION] [--target-type TARGET_TYPE]
                               [--before BEFORE] [--after AFTER] [--sort SORT]
                               [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--action <action>

--target-type <target_type>

--before <before>

--after <after>

--sort <sort>

--page <page>

--per-page <per_page>

--all

gitlab user-gpg-key

```
usage: gitlab user-gpg-key [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab user-gpg-key create

```
usage: gitlab user-gpg-key create [-h] [--sudo SUDO] --user-id USER_ID --key
                                   KEY
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--key <key>

gitlab user-gpg-key delete

```
usage: gitlab user-gpg-key delete [-h] [--sudo SUDO] --user-id USER_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--id <id>

gitlab user-gpg-key get

```
usage: gitlab user-gpg-key get [-h] [--sudo SUDO] --user-id USER_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--id <id>

gitlab user-gpg-key list

```
usage: gitlab user-gpg-key list [-h] [--sudo SUDO] --user-id USER_ID  
                                [--page PAGE] [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--page <page>

--per-page <per_page>

--all

gitlab user-impersonation-token

```
usage: gitlab user-impersonation-token [-h] {list,get,create,delete} ...
```

-h, --help
show this help message and exit

gitlab user-impersonation-token create

```
usage: gitlab user-impersonation-token create [-h] [--sudo SUDO] --user-id
                                             USER_ID --name NAME --scopes
                                             SCOPES [--expires-at EXPIRES_AT]
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--name <name>

--scopes <scopes>

--expires-at <expires_at>

gitlab user-impersonation-token delete

```
usage: gitlab user-impersonation-token delete [-h] [--sudo SUDO] --user-id
                                             USER_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--id <id>

gitlab user-impersonation-token get

```
usage: gitlab user-impersonation-token get [-h] [--sudo SUDO] --user-id
                                             USER_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--id <id>

gitlab user-impersonation-token list

```
usage: gitlab user-impersonation-token list [-h] [--sudo SUDO] --user-id
USER_ID [--state STATE]
[--page PAGE]
[--per-page PER_PAGE] [--all]
```

-h, --help

show this help message and exit

--sudo <sudo>

--user-id <user_id>

--state <state>

--page <page>

--per-page <per_page>

--all

gitlab user-key

```
usage: gitlab user-key [-h] {list,get,create,delete} ...
```

-h, --help

show this help message and exit

gitlab user-key create

```
usage: gitlab user-key create [-h] [--sudo SUDO] --user-id USER_ID --title
TITLE --key KEY
```

-h, --help

show this help message and exit

--sudo <sudo>

--user-id <user_id>

--title <title>

--key <key>

gitlab user-key delete

```
usage: gitlab user-key delete [-h] [--sudo SUDO] --user-id USER_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--id <id>

gitlab user-key get

```
usage: gitlab user-key get [-h] [--sudo SUDO] --user-id USER_ID --id ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--id <id>

gitlab user-key list

```
usage: gitlab user-key list [-h] [--sudo SUDO] --user-id USER_ID [--page PAGE]
                        [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--page <page>

--per-page <per_page>

--all

gitlab user-membership

```
usage: gitlab user-membership [-h] {list,get} ...
```

-h, --help
show this help message and exit

gitlab user-membership get

```
usage: gitlab user-membership get [-h] [--sudo SUDO] --user-id USER_ID
                                   --source-id SOURCE_ID
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--source-id <source_id>

gitlab user-membership list

```
usage: gitlab user-membership list [-h] [--sudo SUDO] --user-id USER_ID
                                   [--type TYPE] [--page PAGE]
                                   [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--user-id <user_id>

--type <type>

--page <page>

--per-page <per_page>

--all

gitlab user-personal-access-token

```
usage: gitlab user-personal-access-token [-h] {create} ...
```

-h, --help
show this help message and exit

gitlab user-personal-access-token create

```
usage: gitlab user-personal-access-token create [-h] [--sudo SUDO] --user-id
                                                USER_ID --name NAME --scopes
                                                SCOPES
                                                [--expires-at EXPIRES_AT]
```

-h, --help
show this help message and exit

```
--sudo <sudo>
--user-id <user_id>
--name <name>
--scopes <scopes>
--expires-at <expires_at>
```

gitlab user-project

```
usage: gitlab user-project [-h] {list,create} ...
```

```
-h, --help
    show this help message and exit
```

gitlab user-project create

```
usage: gitlab user-project create [-h] [--sudo SUDO] --user-id USER_ID --name
                                  NAME [--default-branch DEFAULT_BRANCH]
                                  [--issues-enabled ISSUES_ENABLED]
                                  [--wall-enabled WALL_ENABLED]
                                  [--merge-requests-enabled MERGE_REQUESTS_ENABLED]
                                  [--wiki-enabled WIKI_ENABLED]
                                  [--snippets-enabled SNIPPETS_ENABLED]
                                  [--squash-option SQUASH_OPTION]
                                  [--public PUBLIC] [--visibility VISIBILITY]
                                  [--description DESCRIPTION]
                                  [--builds-enabled BUILDS_ENABLED]
                                  [--public-builds PUBLIC_BUILDS]
                                  [--import-url IMPORT_URL]
                                  [--only-allow-merge-if-build-succeeds ONLY_ALLOW_MERGE_
↳ IF_BUILD_SUCCEEDS]
```

```
-h, --help
    show this help message and exit
--sudo <sudo>
--user-id <user_id>
--name <name>
--default-branch <default_branch>
--issues-enabled <issues_enabled>
--wall-enabled <wall_enabled>
--merge-requests-enabled <merge_requests_enabled>
--wiki-enabled <wiki_enabled>
```

```

--snippets-enabled <snippets_enabled>
--squash-option <squash_option>
--public <public>
--visibility <visibility>
--description <description>
--builds-enabled <builds_enabled>
--public-builds <public_builds>
--import-url <import_url>
--only-allow-merge-if-build-succeeds <only_allow_merge_if_build_succeeds>

```

gitlab user-project list

```

usage: gitlab user-project list [-h] [--sudo SUDO] --user-id USER_ID
                                [--archived ARCHIVED]
                                [--visibility VISIBILITY]
                                [--order-by ORDER_BY] [--sort SORT]
                                [--search SEARCH] [--simple SIMPLE]
                                [--owned OWNED] [--membership MEMBERSHIP]
                                [--starred STARRED] [--statistics STATISTICS]
                                [--with-issues-enabled WITH_ISSUES_ENABLED]
                                [--with-merge-requests-enabled WITH_MERGE_REQUESTS_
↳ ENABLED]
                                [--with-custom-attributes WITH_CUSTOM_ATTRIBUTES]
                                [--with-programming-language WITH_PROGRAMMING_LANGUAGE]
                                [--wiki-checksum-failed WIKI_CHECKSUM_FAILED]
                                [--repository-checksum-failed REPOSITORY_CHECKSUM_FAILED]
                                [--min-access-level MIN_ACCESS_LEVEL]
                                [--id-after ID_AFTER] [--id-before ID_BEFORE]
                                [--page PAGE] [--per-page PER_PAGE] [--all]

```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--user-id <user_id>
--archived <archived>
--visibility <visibility>
--order-by <order_by>
--sort <sort>
--search <search>
--simple <simple>

```

--owned <owned>
--membership <membership>
--starred <starred>
--statistics <statistics>
--with-issues-enabled <with_issues_enabled>
--with-merge-requests-enabled <with_merge_requests_enabled>
--with-custom-attributes <with_custom_attributes>
--with-programming-language <with_programming_language>
--wiki-checksum-failed <wiki_checksum_failed>
--repository-checksum-failed <repository_checksum_failed>
--min-access-level <min_access_level>
--id-after <id_after>
--id-before <id_before>
--page <page>
--per-page <per_page>
--all

gitlab user-status

```
usage: gitlab user-status [-h] {get} ...
```

-h, --help
show this help message and exit

gitlab user-status get

```
usage: gitlab user-status get [-h] [--sudo SUDO] --user-id USER_ID
```

-h, --help
show this help message and exit

--sudo <sudo>
--user-id <user_id>

gitlab variable

```
usage: gitlab variable [-h] {list,get,create,update,delete} ...
```

-h, --help

show this help message and exit

gitlab variable create

```
usage: gitlab variable create [-h] [--sudo SUDO] --key KEY --value VALUE
                               [--protected PROTECTED]
                               [--variable-type VARIABLE_TYPE]
                               [--masked MASKED]
```

-h, --help

show this help message and exit

--sudo <sudo>

--key <key>

--value <value>

--protected <protected>

--variable-type <variable_type>

--masked <masked>

gitlab variable delete

```
usage: gitlab variable delete [-h] [--sudo SUDO] --key KEY
```

-h, --help

show this help message and exit

--sudo <sudo>

--key <key>

gitlab variable get

```
usage: gitlab variable get [-h] [--sudo SUDO] --key KEY
```

-h, --help

show this help message and exit

--sudo <sudo>

--key <key>

gitlab variable list

```
usage: gitlab variable list [-h] [--sudo SUDO] [--page PAGE]
                             [--per-page PER_PAGE] [--all]
```

-h, --help
show this help message and exit

--sudo <sudo>

--page <page>

--per-page <per_page>

--all

gitlab variable update

```
usage: gitlab variable update [-h] [--sudo SUDO] --key KEY --value VALUE
                               [--protected PROTECTED]
                               [--variable-type VARIABLE_TYPE]
                               [--masked MASKED]
```

-h, --help
show this help message and exit

--sudo <sudo>

--key <key>

--value <value>

--protected <protected>

--variable-type <variable_type>

--masked <masked>

6.7 Changelog

6.7.1 v3.4.0 (2022-04-28)

Feature

- Emit a warning when using a `list()` method returns max ([1339d64](#))
- **objects:** Support getting project/group deploy tokens by id ([fcd37fe](#))
- **user:** Support getting user SSH key by id ([6f93c05](#))
- **api:** Re-add topic delete endpoint ([d1d96bd](#))

Fix

- Add ChunkedEncodingError to list of retryable exceptions ([7beb20f](#))
- Avoid passing redundant arguments to API ([3431887](#))
- **cli:** Add missing filters for project commit list ([149d244](#))
- Add 52x range to retry transient failures and tests ([c3ef1b5](#))
- Also retry HTTP-based transient errors ([3b49e4d](#))

Documentation

- **api-docs:** Docs fix for application scopes ([e1ad93d](#))

6.7.2 v3.3.0 (2022-03-28)

Feature

- **object:** Add pipeline test report summary support ([a97e0cf](#))

Fix

- Support RateLimit-Reset header ([4060146](#))

Documentation

- Fix typo and incorrect style ([2828b10](#))
- Add pipeline test report summary support ([d78afb3](#))
- **chore:** Include docs .js files in sdist ([3010b40](#))

6.7.3 v3.2.0 (2022-02-28)

Feature

- **merge_request_approvals:** Add support for deleting MR approval rules ([85a734f](#))
- **artifacts:** Add support for project artifacts delete API ([c01c034](#))
- **mixins:** Allow deleting resources without IDs ([0717517](#))
- **objects:** Add a complete artifacts manager ([c8c2fa7](#))

Fix

- **services:** Use slug for id_attr instead of custom methods (e30f39d)
- Remove custom delete method for labels (0841a2a)

Documentation

- Enable gitter chat directly in docs (bd1ecdd)
- Add delete methods for runners and project artifacts (5e711fd)
- Add retry_transient infos (bb1f054)
- Add transient errors retry info (b7a1266)
- **artifacts:** Deprecate artifacts() and artifact() methods (64d01ef)
- Revert “chore: add temporary banner for v3” (#1864) (7a13b9b)

6.7.4 v3.1.1 (2022-01-28)

Fix

- **cli:** Make ‘per_page’ and ‘page’ type explicit (d493a5e)
- **cli:** Make ‘timeout’ type explicit (bbb7df5)
- **cli:** Allow custom methods in managers (8dfed0c)
- **objects:** Make resource access tokens and repos available in CLI (e0a3a41)

Documentation

- Enhance release docs for CI_JOB_TOKEN usage (5d973de)
- **changelog:** Add missing changelog items (01755fb)

6.7.5 v3.1.0 (2022-01-14)

Feature

- add support for Group Access Token API (c01b7c4)
- Add support for Groups API method transfer() (0007006)
- **api:** Add project.transfer() and deprecate transfer_project() (259668a)
- **api:** Return result from SaveMixin.save() (e6258a4)

Fix

- **cli:** Add missing list filters for environments ([6f64d40](#))
- Use url-encoded ID in all paths ([12435d7](#))
- **members:** Use new *All objects for *AllManager managers ([755e0a3](#))
- **api:** Services: add missing lazy parameter ([888f332](#))
- broken URL for FAQ about attribute-error-list ([1863f30](#))
- remove default arguments for mergerequests.merge() ([8e589c4](#))
- remove custom URL encoding ([3d49e5e](#))

Documentation

- **cli:** make examples more easily navigable by generating TOC ([f33c523](#))
- update project access token API reference link ([73ae955](#))

6.7.6 v3.0.0 (2022-01-05)

Feature

- **docker:** Remove custom entrypoint from image ([80754a1](#))
- **cli:** Allow options from args and environment variables ([ca58008](#))
- **api:** Support file format for repository archive ([83dcabf](#))
- Add support for `squash_option` in Projects ([a246ce8](#))
- **cli:** Do not require config file to run CLI ([92a893b](#))
- **api:** Add support for Topics API ([e7559bf](#))
- Add delete on `package_file` object ([124667b](#))
- Add support for `projects.groups.list()` ([68ff595](#))
- **api:** Add support for epic notes ([7f4edb5](#))
- Remove support for Python 3.6, require 3.7 or higher ([414009d](#))
- **api:** Add project milestone promotion ([f068520](#))
- **api:** Add merge trains ([fd73a73](#))
- **api:** Add merge request approval state ([f41b093](#))
- **api:** Add project label promotion ([6d7c88a](#))
- **objects:** Support delete package files API ([4518046](#))
- **objects:** List starred projects of a user ([47a5606](#))
- **build:** Officially support and test python 3.10 ([c042ddc](#))
- **objects:** Support Create and Revoke personal access token API ([e19314d](#))
- Default to gitlab.com if no URL given ([8236281](#))
- Allow global `retry_transient_errors` setup ([3b1d3a4](#))

Fix

- Handle situation where GitLab does not return values ([cb824a4](#))
- Stop encoding ‘.’ to ‘%2E’ ([702e41d](#))
- **build:** Do not include docs in wheel package ([68a97ce](#))
- **api:** Delete invalid ‘project-runner get’ command ([#1628](#)) ([905781b](#))
- **api:** Replace deprecated attribute in `delete_in_bulk()` ([#1536](#)) ([c59fbdb](#))
- **objects:** Rename confusing `to_project_id` argument ([ce4bc0d](#))
- Raise error if there is a 301/302 redirection ([d56a434](#))
- **build:** Do not package tests in wheel ([969dccc](#))

Breaking

- The gitlab CLI will now accept CLI arguments and environment variables for its global options in addition to configuration file options. This may change behavior for some workflows such as running inside GitLab CI and with certain environment variables configured. ([ca58008](#))
- stop encoding ‘.’ to ‘%2E’. This could potentially be a breaking change for users who have incorrectly configured GitLab servers which don’t handle period ‘.’ characters correctly. ([702e41d](#))
- A config file is no longer needed to run the CLI. python-gitlab will default to `https://gitlab.com` with no authentication if there is no config file provided. python-gitlab will now also only look for configuration in the provided `PYTHON_GITLAB_CFG` path, instead of merging it with user- and system-wide config files. If the environment variable is defined and the file cannot be opened, python-gitlab will now explicitly fail. ([92a893b](#))
- As of python-gitlab 3.0.0, Python 3.6 is no longer supported. Python 3.7 or higher is required. ([414009d](#))
- As of python-gitlab 3.0.0, the default branch for development has changed from `master` to `main`. ([545f8ed](#))
- remove deprecated branch protect methods in favor of the more complete protected branches API. ([9656a16](#))
- The deprecated `name_regex` attribute has been removed in favor of `name_regex_delete`. (see <https://gitlab.com/gitlab-org/gitlab/-/commit/ce99813cf54>) ([c59fbdb](#))
- rename confusing `to_project_id` argument in `transfer_project` to `project_id` (`--project-id` in CLI). This is used for the source project, not for the target namespace. ([ce4bc0d](#))
- remove deprecated constants defined in `gitlab.v4.objects`, and use only `gitlab.const` module ([3f320af](#))
- remove deprecated tag release API. This was removed in GitLab 14.0 ([2b8a94a](#))
- remove deprecated `project.issuesstatistics` in favor of `project.issues_statistics` ([ca7777e](#))
- remove deprecated `members.all()` method in favor of `members_all.list()` ([4d7b848](#))
- remove deprecated `pipelines()` methods in favor of `pipelines.list()` ([c4f5ec6](#))
- python-gitlab will now default to `gitlab.com` if no URL is given ([8236281](#))
- raise error if there is a 301/302 redirection ([d56a434](#))

Documentation

- Switch to Furo and refresh introduction pages ([ee6b024](#))
- Correct documentation for updating discussion note ([ee66f4a](#))
- Rename documentation files to match names of code files ([ee3f865](#))
- **project:** Remove redundant encoding parameter ([fed613f](#))
- Use annotations for return types ([79e785e](#))
- Update docs to use gitlab.const for constants ([b3b0b5f](#))
- Only use type annotations for documentation ([b7dde0d](#))
- Add links to the GitLab API docs ([e3b5d27](#))
- Fix API delete key example ([b31bb05](#))
- **pipelines:** Document take_ownership method ([69461f6](#))
- **api:** Document the update method for project variables ([7992911](#))
- **api:** Clarify job token usage with auth() ([3f423ef](#))
- Fix a few typos ([7ea4ddc](#))
- Consolidate changelogs and remove v3 API docs ([90da8ba](#))
- Correct documented return type ([acabf63](#))

6.7.7 v2.10.1 (2021-08-28)

Fix

- **mixins:** Improve deprecation warning ([57e0187](#))
- **deps:** Upgrade requests to 2.25.0 (see CVE-2021-33503) ([ce995b2](#))

Documentation

- **mergequests:** Gl.mergequests.list documentation was misleading ([5b5a7bc](#))

6.7.8 v2.10.0 (2021-07-28)

Feature

- **api:** Add merge_ref for merge requests ([1e24ab2](#))
- **api:** Add name_regex_keep attribute in delete_in_bulk() ([e49ff3f](#))

Fix

- **api:** Do not require Release name for creation ([98cd03b](#))

Documentation

- **readme:** Move contributing docs to CONTRIBUTING.rst ([edf49a3](#))
- Add example for mr.merge_ref ([b30b8ac](#))
- **project:** Add example on getting a single project using name with namespace ([ef16a97](#))

6.7.9 v2.9.0 (2021-06-28)

Feature

- **release:** Allow to update release ([b4c4787](#))
- **api:** Add group hooks ([4a7e9b8](#))
- **api:** Remove responsibility for API inconsistencies for MR reviewers ([3d985ee](#))
- **api:** Add MR pipeline manager and deprecate pipelines() method ([954357c](#))
- **api:** Add support for creating/editing reviewers in project merge requests ([676d1f6](#))

Documentation

- **tags:** Remove deprecated functions ([1b1a827](#))
- **release:** Add update example ([6254a5f](#))
- Make Gitlab class usable for intersphinx ([8753add](#))

6.7.10 v2.8.0 (2021-06-10)

Feature

- Add keys endpoint ([a81525a](#))
- **objects:** Add support for Group wikis ([#1484](#)) ([74f5e62](#))
- **objects:** Add support for generic packages API ([79d88bd](#))
- **api:** Add deployment mergerequests interface ([fbbc0d4](#))
- **objects:** Support all issues statistics endpoints ([f731707](#))
- **objects:** Add support for descendant groups API ([1b70580](#))
- **objects:** Add pipeline test report support ([ee9f96e](#))
- **objects:** Add support for billable members ([fb0b083](#))
- Add feature to get inherited member for project/group ([e444b39](#))
- Add code owner approval as attribute ([fdc46ba](#))
- Indicate that we are a typed package ([e4421ca](#))

- Add support for lists of integers to ListAttribute ([115938b](#))

Fix

- Catch invalid type used to initialize RESTObject ([c7bcc25](#))
- Functional project service test ([#1500](#)) ([093db9d](#))
- Ensure kwargs are passed appropriately for ObjectDeleteMixin ([4e690c2](#))
- **cli:** Add missing list filter for jobs ([b3d1c26](#))
- Change mr.merge() to use 'post_data' ([cb6a3c6](#))
- **cli:** Fix parsing CLI objects to classnames ([4252070](#))
- **objects:** Return server data in cancel/retry methods ([9fed061](#))
- **objects:** Add missing group attributes ([d20ff4f](#))
- **objects:** Allow lists for filters for in all objects ([603a351](#))
- Iids not working as a list in projects.issues.list() ([45f806c](#))
- Add a check to ensure the MRO is correct ([565d548](#))

Documentation

- Fix typo in http_delete docstring ([5226f09](#))
- **api:** Add behavior in local attributes when updating objects ([38f65e8](#))
- Fail on warnings during sphinx build ([cbd4d52](#))

6.7.11 v2.7.1 (2021-04-26)

- fix(files): do not url-encode file paths twice

6.7.12 v2.7.0 (2021-04-25)

Bug Fixes

- update user's bool data and avatar ([3ba27ffb](#))
- argument type was not a tuple as expected ([062f8f6a](#))
- correct some type-hints in gitlab/mixins.py ([8bd31240](#))
- only append kwargs as query parameters ([b9ecc9a8](#))
- only add query_parameters to GitlabList once ([1386](#))
- checking if RESTManager._from_parent_attrs is set ([8224b406](#))
- handling config value in _get_values_from_helper ([9dfb4cd9](#))
- let the homedir be expanded in path of helper ([fc7387a0](#))
- make secret helper more user friendly ([fc2798fc](#))
- linting issues and test ([b04dd2c0](#))

- handle tags like debian/2%2.6-21 as identifiers (b4dac5ce)
- remove duplicate class definitions in v4/objects/users.py (7c4e6259)
- wrong variable name (15ec41ca)
- tox pep8 target, so that it can run (f518e87b)
- undefined name errors (48ec9e0f)
- extend wait timeout for test_delete_user() (19fde8ed)
- test_update_group() dependency on ordering (e78a8d63)
- honor parameter value passed (c2f8f0e7)
- **objects:** add single get endpoint for instance audit events (c3f0a6f1)
- **types:** prevent **dir** from producing duplicates (5bf7525d)

Features

- add ProjectPackageFile (#1372)
- add option to add a helper to lookup token (8ecf5592)
- add project audit endpoint (6660dbef)
- add personal access token API (2bb16fac)
- add import from bitbucket server (ff3013a2)
- **api,cli:** make user agent configurable (4bb201b9)
- **issues:** add missing get verb to IssueManager (f78ebe06)
- **objects:**
 - add support for resource state events API (d4799c40)
 - add support for group audit events API (2a0fbdf9)
 - add Release Links API support (28d75181)
- **projects:** add project access token api (1becef02)
- **users:** add follow/unfollow API (e456869d)

Documentation

- correct ProjectFile.decode() documentation (b180bafd)
- update doc for token helper (3ac6fa12)
- better real life token lookup example (9ef83118)

6.7.13 v2.6.0 (2021-01-29)

Features

- support multipart uploads (2fa3004d)
- add MINIMAL_ACCESS constant (49eb3ca7)
- unit tests added (f37ebf5f)
- added support for pipeline bridges (05cbdc22)
- adds support for project merge request approval rules (#1199) (c6fbf399)
- **api:**
 - added wip filter param for merge requests (d6078f80)
 - added wip filter param for merge requests (aa6e80d5)
 - add support for user identity provider deletion (e78e1215)
- **tests:** test label getter (a41af902)

Bug Fixes

- docs changed using the consts (650b65c3)
- typo (9baa9053)
- **api:**
 - use RetrieveMixin for ProjectLabelManager (1a143952)
 - add missing runner access_level param (92669f2e)
- **base:** really refresh object (e1e0d8cb), closes (#1155)
- **cli:**
 - write binary data to stdout buffer (0733ec6c)
 - add missing args for project lists (c73e2374)

6.7.14 v2.5.0 (2020-09-01)

Features

- add support to resource milestone events (88f8cc78), closes #1154
- add share/unshare group with group (7c6e541d)
- add support for instance variables (4492fc42)
- add support for Packages API (71495d12)
- add endpoint for latest ref artifacts (b7a07fca)

Bug Fixes

- wrong reconfirmation parameter when updating user's email (b5c267e1)
- tests fail when using REUSE_CONTAINER option (0078f899, closes #1146)
- implement Gitlab's behavior change for owned=True (99777991)

6.7.15 v2.4.0 (2020-07-09)

Bug Fixes

- do not check if kwargs is none (a349b90e)
- make query kwargs consistent between call in init and next (72ffa016)
- pass kwargs to subsequent queries in gitlab list (1d011ac7)
- **merge:** parse arguments as query_data (878098b7)

Features

- add NO_ACCESS const (dab4d0a1)
- add masked parameter for variables command (b6339bf8)

6.7.16 v2.3.1 (2020-06-09)

- revert keyset pagination by default

6.7.17 v2.3.0 (2020-06-08)

Features

- add group runners api (49439916)
- add play command to project pipeline schedules (07b99881)
- allow an environment variable to specify config location (401e702a)
- **api:** added support in the GroupManager to upload Group avatars (28eb7eab)
- **services:** add project service list API (fc522218)
- **types:** add **dir** to RESTObject to expose attributes (cad134c0)

Bug Fixes

- use keyset pagination by default for /projects > 50000 (f86ef3bb)
- **config:** fix duplicate code (ee2df6f1), closes (#1094)
- **project:** add missing project parameters (ad8c67d6)

6.7.18 v2.2.0 (2020-04-07)

Bug Fixes

- add missing import_project param (9b16614b)
- **types:** do not split single value string in ListAttribute (a26e5858)

Features

- add commit GPG signature API (da7a8097)
- add create from template args to ProjectManager (f493b73e)
- add remote mirrors API (#1056) (4cfaa2fd)
- add Gitlab Deploy Token API (01de524c)
- add Group Import/Export API (#1037) (6cb9d923)

6.7.19 v2.1.2 (2020-03-09)

Bug Fixes

- Fix regression, when using keyset pagination with merge requests. Related to [https://github.com/python-gitlab/issues/1044](https://github.com/python-gitlab/python-gitlab/issues/1044)

6.7.20 v2.1.1 (2020-03-09)

Bug Fixes

users: update user attributes

This change was made to mitigate an issue in Gitlab (again). Fix available in: https://gitlab.com/gitlab-org/gitlab/-/merge_requests/26792

6.7.21 v2.1.0 (2020-03-08)

Bug Fixes

- do not require empty data dict for create() (99d959f7)
- remove trailing slashes from base URL (#913) (2e396e4a)
- return response with commit data (b77b945c)
- remove null values from features POST data, because it fails with HTTP 500 (1ec1816d)
- **docs:**
 - fix typo in user memberships example (33889becb)
 - update to new set approvers call for # of approvers (8e0c5262)
 - update docs and tests for set_approvers (2cf12c79)
- **objects:**
 - add default name data and use http post (70c0cfb6)
 - update set_approvers function call (65ecadcf)
 - update to new gitlab api for path, and args (e512cddd)

Features

- add support for user memberships API (#1009) (c313c2b0)
- add support for commit revert API (#991) (5298964e)
- add capability to control GitLab features per project or group (7f192b4f)
- use keyset pagination by default for all=True (99b4484d)
- add support for GitLab OAuth Applications API (4e12356d)

6.7.22 v2.0.1 (2020-02-05)

Changes

- **users:** update user attributes

This change was made to mitigate an issue in Gitlab. See: <https://gitlab.com/gitlab-org/gitlab/issues/202070>

6.7.23 v2.0.0 (2020-01-26)

This releases drops support for python < 3.6

Bug Fixes

- **projects:** adjust snippets to match the API (e104e213)

Features

- add global order_by option to ease pagination (d1879253)
- support keyset pagination globally (0b71ba4d)
- add appearance API (4c4ac5ca)
- add autocompletion support (973cb8b9)

6.7.24 v1.15.0 (2019-12-16)

Bug Fixes

- ignore all parameter, when as_list=True 137d72b3, closes #962

Features

- allow cfg timeout to be overridden via kwargs e9a8289a
- add support for /import/github aa4d41b7
- nicer stacktrace 697cda24
- retry transient HTTP errors 59fe2714, closes #970
- access project's issues statistics 482e57ba, closes #966
- adding project stats db0b00a9, closes #967
- add variable_type/protected to projects ci variables 4724c50e
- add variable_type to groups ci variables 0986c931

6.7.25 v1.14.0 (2019-12-07)

Bug Fixes

- added missing attributes for project approvals 460ed63c
- **labels:** ensure label.save() works 727f5361
- **project-fork:**
 - copy create fix from ProjectPipelineManager 516307f1
 - correct path computation for project-fork list 44a7c278

Features

- add audit endpoint 2534020b
- add project and group clusters ebd053e7
- add support for include_subgroups filter adbcd83f

6.7.26 v1.13.0 (2019-11-02)

Features

- add users activate, deactivate functionality (32ad6692)
- send python-gitlab version as user-agent (c22d49d0)
- add deployment creation (ca256a07), closes [#917]
- **auth:** remove deprecated session auth (b751cdf4)
- **doc:** remove refs to api v3 in docs (6beea99)
- **test:** unused unittest2, type -> isinstance (33b18012)

Bug Fixes

- **projects:** support approval_rules endpoint for projects (2cef2bb4)

6.7.27 v1.12.1 (2019-10-07)

Bug Fixes

fix: fix not working without auth provided

6.7.28 v1.12.0 (2019-10-06)

Features

- add support for job token
- **project:**
 - implement update_submodule
 - add file blame api
- **user:** add status api

Bug Fixes

- **cli:** fix cli command user-project list
- **labels:** don't mangle label name on update
- **todo:** mark_all_as_done doesn't return anything

6.7.29 v1.11.0 (2019-08-31)

Features

- add methods to retrieve an individual project environment
- group labels with subscriptable mixin

Bug Fixes

- projects: avatar uploading for projects
- remove empty list default arguments
- remove empty dict default arguments
- add project and group label update without id to fix cli

6.7.30 v1.10.0 (2019-07-22)

Features

- add mr rebase method bc4280c2
- get artifact by ref and job cda11745
- add support for board update 908d79fa, closes #801
- add support for issue.related_merge_requests 90a36315, closes #794

Bug Fixes

- improve pickle support b4b5decb
- **cli:**
 - allow `--recursive` parameter in repository tree 7969a78c, closes #718, #731
 - don't fail when the short print attr value is None 8d1552a0, closes #717, #727
 - fix update value for key not working b7662039

6.7.31 v1.9.0 (2019-06-19)

Features

- implement artifacts deletion
- add endpoint to get the variables of a pipeline
- delete ProjectPipeline
- implement **eq** and **hash** methods
- Allow runpy invocation of CLI tool (python -m gitlab)
- add project releases api
- merged new release & registry apis

Bug Fixes

- convert # to %23 in URLs
- pep8 errors
- use python2 compatible syntax for super
- Make MemberManager.all() return a list of objects
-
- Re-enable command specific help messages
- dont ask for id attr if this is *Manager originating custom action
- fix -/_ replacament for *Manager custom actions
- fix repository_id marshaling in cli
- register cli action for delete_in_bulk

6.7.32 v1.8.0 (2019-02-22)

- docs(setup): use proper readme on PyPI
- docs(readme): provide commit message guidelines
- fix(api): make reset_time_estimate() work again
- fix: handle empty 'Retry-After' header from GitLab
- fix: remove decode() on error_message string
- chore: release tags to PyPI automatically
- fix(api): avoid parameter conflicts with python and gitlab
- fix(api): Don't try to parse raw downloads
- feat: Added approve & unapprove method for Mergerequests
- fix all kwarg behaviour

6.7.33 v1.7.0 (2018-12-09)

- **docs:** Fix the owned/starred usage documentation
- **docs:** Add a warning about http to https redirects
- Fix the https redirection test
- **docs:** Add a note about GroupProject limited API
- Add missing comma in ProjectIssueManager _create_attrs
- More flexible docker image
- Add project protected tags management
- **cli:** Print help and usage without config file
- Rename MASTER_ACCESS to MAINTAINER_ACCESS
- **docs:** Add docs build information
- Use docker image with current sources
- **docs:** Add PyYAML requirement notice
- Add Gitter badge to README
- **docs:** Add an example of pipeline schedule vars listing
- **cli:** Exit on config parse error, instead of crashing
- Add support for resource label events
- **docs:** Fix the milestone filetring doc (iid -> iids)
- **docs:** Fix typo in custom attributes example
- Improve error message handling in exceptions
- Add support for members all() method
- Add access control options to protected branch creation

6.7.34 v1.6.0 (2018-08-25)

- **docs:** Don't use hardcoded values for ids
- **docs:** Improve the snippets examples
- **cli:** Output: handle bytes in API responses
- **cli:** Fix the case where we have nothing to print
- Project import: fix the override_params parameter
- Support group and global MR listing
- Implement MR.pipelines()
- MR: add the squash attribute for create/update
- Added support for listing forks of a project
- **docs:** Add/update notes about read-only objects
- Raise an exception on https redirects for PUT/POST

- **docs:** Add a FAQ
- **cli:** Fix the project-export download

6.7.35 v1.5.1 (2018-06-23)

- Fix the ProjectPipelineJob base class (regression)

6.7.36 v1.5.0 (2018-06-22)

- Drop API v3 support
- Drop GetFromListMixin
- Update the sphinx extension for v4 objects
- Add support for user avatar upload
- Add support for project import/export
- Add support for the search API
- Add a global per_page config option
- Add support for the discussions API
- Add support for merged branches deletion
- Add support for Project badges
- Implement user_agent_detail for snippets
- Implement commit.refs()
- Add commit.merge_requests() support
- Deployment: add list filters
- Deploy key: add missing attributes
- Add support for environment stop()
- Add feature flags deletion support
- Update some group attributes
- Issues: add missing attributes and methods
- Fix the participants() decorator
- Add support for group boards
- Implement the markdown rendering API
- Update MR attributes
- Add pipeline listing filters
- Add missing project attributes
- Implement runner jobs listing
- Runners can be created (registered)
- Implement runner token validation
- Update the settings attributes

- Add support for the gitlab CI lint API
- Add support for group badges
- Fix the IssueManager path to avoid redirections
- time_stats(): use an existing attribute if available
- Make ProjectCommitStatus.create work with CLI
- Tests: default to python 3
- ProjectPipelineJob was defined twice
- Silence logs/warnings in unittests
- Add support for MR approval configuration (EE)
- Change post_data default value to None
- Add geo nodes API support (EE)
- Add support for issue links (EE)
- Add support for LDAP groups (EE)
- Add support for board creation/deletion (EE)
- Add support for Project.pull_mirror (EE)
- Add project push rules configuration (EE)
- Add support for the EE license API
- Add support for the LDAP groups API (EE)
- Add support for epics API (EE)
- Fix the non-verbose output of ProjectCommitComment

6.7.37 v1.4.0 (2018-05-19)

- Require requests>=2.4.2
- ProjectKeys can be updated
- Add support for unsharing projects (v3/v4)
- **cli:** fix listing for json and yaml output
- Fix typos in documentation
- Introduce RefreshMixin
- **docs:** Fix the time tracking examples
- **docs:** Commits: add an example of binary file creation
- **cli:** Allow to read args from files
- Add support for recursive tree listing
- **cli:** Restore the -help option behavior
- Add basic unit tests for v4 CLI
- **cli:** Fix listing of strings
- Support downloading a single artifact file

- Update docs copyright years
- Implement attribute types to handle special cases
- **docs:** fix GitLab reference for notes
- Expose additional properties for Gitlab objects
- Fix the impersonation token deletion example
- feat: obey the rate limit
- Fix URL encoding on branch methods
- **docs:** add a code example for listing commits of a MR
- **docs:** update service.available() example for API v4
- **tests:** fix functional tests for python3
- api-usage: bit more detail for listing with all
- More efficient .get() for group members
- Add docs for the files arg in http_*
- Deprecate GetFromListMixin

6.7.38 v1.3.0 (2018-02-18)

- Add support for pipeline schedules and schedule variables
- Clarify information about supported python version
- Add manager for jobs within a pipeline
- Fix wrong tag example
- Update the groups documentation
- Add support for MR participants API
- Add support for getting list of user projects
- Add Gitlab and User events support
- Make trigger_pipeline return the pipeline
- Config: support api_version in the global section
- Gitlab can be used as context manager
- Default to API v4
- Add a simplified example for streamed artifacts
- Add documentation about labels update

6.7.39 v1.2.0 (2018-01-01)

- Add mattermost service support
- Add users custom attributes support
- **doc:** Fix project.triggers.create example with v4 API
- OAuth token support
- Remove deprecated objects/methods
- Rework authentication args handling
- Add support for oauth and anonymous auth in config/CLI
- Add support for impersonation tokens API
- Add support for user activities
- Update user docs with gitlab URLs
- **docs:** Bad arguments in projects file documentation
- Add support for user_agent_detail (issues)
- Add a SetMixin
- Add support for project housekeeping
- Expected HTTP response for subscribe is 201
- Update pagination docs for ProjectCommit
- Add doc to get issue from iid
- Make todo() raise GitlabTodoError on error
- Add support for award emojis
- Update project services docs for v4
- Avoid sending empty update data to issue.save
- **docstrings:** Explicitly document pagination arguments
- **docs:** Add a note about password auth being removed from GitLab
- Submanagers: allow having undefined parameters
- ProjectFile.create(): don't modify the input data
- Update testing tools for /session removal
- Update groups tests
- Allow per_page to be used with generators
- Add groups listing attributes
- Add support for subgroups listing
- Add supported python versions in setup.py
- Add support for pagesdomains
- Add support for features flags
- Add support for project and group custom variables
- Add support for user/group/project filter by custom attribute

- Respect content of REQUESTS_CA_BUNDLE and *_proxy envvars

6.7.40 v1.1.0 (2017-11-03)

- Fix trigger variables in v4 API
- Make the delete() method handle / in ids
- **docs:** update the file upload samples
- Tags release description: support / in tag names
- **docs:** improve the labels usage documentation
- Add support for listing project users
- ProjectFileManager.create: handle / in file paths
- Change ProjectUser and GroupProject base class
- **docs:** document get_create_attrs in the API tutorial
- Document the Gitlab session parameter
- ProjectFileManager: custom update() method
- Project: add support for printing_merge_request_link_enabled attr
- Update the ssl_verify docstring
- Add support for group milestones
- Add support for GPG keys
- Add support for wiki pages
- Update the repository_blob documentation
- Fix the CLI for objects without ID (API v4)
- Add a contributed Dockerfile
- Pagination generators: expose more information
- Module's base objects serialization
- **doc:** Add sample code for client-side certificates

6.7.41 v1.0.2 (2017-09-29)

- **docs:** remove example usage of submanagers
- Properly handle the labels attribute in ProjectMergeRequest
- ProjectFile: handle / in path for delete() and save()

6.7.42 v1.0.1 (2017-09-21)

- Tags can be retrieved by ID
- Add the server response in GitlabError exceptions
- Add support for project file upload
- Minor typo fix in “Switching to v4” documentation
- Fix password authentication for v4
- Fix the labels attrs on MR and issues
- Exceptions: use a proper error message
- Fix http_get method in get artifacts and job trace
- CommitStatus: sha is parent attribute
- Fix a couple listing calls to allow proper pagination
- Add missing doc file

6.7.43 v1.0.0 (2017-09-08)

- Support for API v4. See <http://python-gitlab.readthedocs.io/en/master/switching-to-v4.html>
- Support SSL verification via internal CA bundle
- Docs: Add link to gitlab docs on obtaining a token
- Added dependency injection support for Session
- Fixed repository_compare examples
- Fix changelog and release notes inclusion in sdist
- Missing expires_at in GroupMembers update
- Add lower-level methods for Gitlab()

6.7.44 v0.21.2 (2017-06-11)

- Install doc: use sudo for system commands
- **v4:** Make MR work properly
- Remove extra_attrs argument from _raw_list
- **v4:** Make project issues work properly
- Fix urlencode() usage (python 2/3) (#268)
- Fixed spelling mistake (#269)
- Add new event types to ProjectHook

6.7.45 v0.21.1 (2017-05-25)

- Fix the manager name for jobs in the Project class
- Fix the docs

6.7.46 v0.21 (2017-05-24)

- Add time_stats to ProjectMergeRequest
- Update User options for creation and update (#246)
- Add milestone.merge_requests() API
- Fix docs typo (s/correspnding/corresponding/)
- Support milestone start date (#251)
- Add support for priority attribute in labels (#256)
- Add support for nested groups (#257)
- Make GroupProjectManager a subclass of ProjectManager (#255)
- Available services: return a list instead of JSON (#258)
- MR: add support for time tracking features (#248)
- Fixed repository_tree and repository_blob path encoding (#265)
- Add 'search' attribute to projects.list()
- Initial gitlab API v4 support
- Reorganise the code to handle v3 and v4 objects
- Allow 202 as delete return code
- Deprecate parameter related methods in gitlab.Gitlab

6.7.47 v0.20 (2017-03-25)

- Add time tracking support (#222)
- Improve changelog (#229, #230)
- Make sure that manager objects are never overwritten (#209)
- Include chanlog and release notes in docs
- Add DeployKey{,Manager} classes (#212)
- Add support for merge request notes deletion (#227)
- Properly handle extra args when listing with all=True (#233)
- Implement pipeline creation API (#237)
- Fix spent_time methods
- Add 'delete source branch' option when creating MR (#241)
- Provide API wrapper for cherry picking commits (#236)
- Stop listing if recursion limit is hit (#234)

6.7.48 v0.19 (2017-02-21)

- Update project.archive() docs
- Support the scope attribute in runners.list()
- Add support for project runners
- Add support for commit creation
- Fix install doc
- Add builds-email and pipelines-email services
- Deploy keys: rework enable/disable
- Document the dynamic aspect of objects
- Add pipeline_events to ProjectHook attrs
- Add due_date attribute to ProjectIssue
- Handle settings.domain_whitelist, partly
- {Project,Group}Member: support expires_at attribute

6.7.49 v0.18 (2016-12-27)

- Fix JIRA service editing for GitLab 8.14+
- Add jira_issue_transition_id to the JIRA service optional fields
- Added support for Snippets (new API in Gitlab 8.15)
- **docs:** update pagination section
- **docs:** artifacts example: open file in wb mode
- **CLI:** ignore empty arguments
- **CLI:** Fix wrong use of arguments
- **docs:** Add doc for snippets
- Fix duplicated data in API docs
- Update known attributes for projects
- sudo: always use strings

6.7.50 v0.17 (2016-12-02)

- README: add badges for pypi and RTD
- Fix ProjectBuild.play (raised error on success)
- Pass kwargs to the object factory
- Add .tox to ignore to respect default tox settings
- Convert response list to single data source for iid requests
- Add support for boards API
- Add support for Gitlab.version()

- Add support for broadcast messages API
- Add support for the notification settings API
- Don't overwrite attributes returned by the server
- Fix bug when retrieving changes for merge request
- Feature: enable / disable the deploy key in a project
- Docs: add a note for python 3.5 for file content update
- ProjectHook: support the token attribute
- Rework the API documentation
- Fix docstring for `http_{username,password}`
- Build managers on demand on `GitlabObject`'s
- API docs: add managers doc in `GitlabObject`'s
- Sphinx ext: factorize the build methods
- Implement `__repr__` for gitlab objects
- Add a 'report a bug' link on doc
- Remove deprecated methods
- Implement merge requests diff support
- Make the manager objects creation more dynamic
- Add support for templates API
- Add attr 'created_at' to `ProjectIssueNote`
- Add attr 'updated_at' to `ProjectIssue`
- CLI: add support for project all -all
- Add support for triggering a new build
- Rework requests arguments (support latest requests release)
- Fix `should_remove_source_branch`

6.7.51 v0.16 (2016-10-16)

- Add the ability to fork to a specific namespace
- JIRA service - add `api_url` to optional attributes
- Fix bug: Missing coma concatenates array values
- docs: branch protection notes
- Create a project in a group
- Add `only_allow_merge_if_build_succeeds` option to project objects
- Add support for -all in CLI
- Fix examples for file modification
- Use the plural `merge_requests` URL everywhere
- Rework travis and tox setup

- Workaround gitlab setup failure in tests
- Add ProjectBuild.erase()
- Implement ProjectBuild.play()

6.7.52 v0.15.1 (2016-10-16)

- docs: improve the pagination section
- Fix and test pagination
- ‘path’ is an existing gitlab attr, don’t use it as method argument

6.7.53 v0.15 (2016-08-28)

- Add a basic HTTP debug method
- Run more tests in travis
- Fix fork creation documentation
- Add more API examples in docs
- Update the ApplicationSettings attributes
- Implement the todo API
- Add sidekiq metrics support
- Move the constants at the gitlab root level
- Remove methods marked as deprecated 7 months ago
- Refactor the Gitlab class
- Remove _get_list_or_object() and its tests
- Fix canGet attribute (typo)
- Remove unused ProjectTagReleaseManager class
- Add support for project services API
- Add support for project pipelines
- Add support for access requests
- Add support for project deployments

6.7.54 v0.14 (2016-08-07)

- Remove ‘next_url’ from kwargs before passing it to the cls constructor.
- List projects under group
- Add support for subscribe and unsubscribe in issues
- Project issue: doc and CLI for (un)subscribe
- Added support for HTTP basic authentication
- Add support for build artifacts and trace

- `-title` is a required argument for `ProjectMilestone`
- Commit status: add optional context url
- Commit status: optional get attrs
- Add support for commit comments
- Issues: add optional listing parameters
- Issues: add missing optional listing parameters
- Project issue: proper update attributes
- Add support for project-issue move
- Update `ProjectLabel` attributes
- Milestone: optional listing attrs
- Add support for namespaces
- Add support for label (un)subscribe
- MR: add (un)subscribe support
- Add `note_events` to project hooks attributes
- Add code examples for a bunch of resources
- Implement user emails support
- Project: add `VISIBILITY_*` constants
- Fix the `Project.archive` call
- Implement `archive/unarchive` for a projet
- Update `ProjectSnippet` attributes
- Fix `ProjectMember` update
- Implement sharing project with a group
- Implement CLI for project `archive/unarchive/share`
- Implement runners global API
- Gitlab: add managers for build-related resources
- Implement `ProjectBuild.keep_artifacts`
- Allow to stream the downloads when appropriate
- Groups can be updated
- Replace `Snippet.Content()` with a new `content()` method
- CLI: refactor `_die()`
- Improve commit statuses and comments
- Add support from listing group issues
- Added a new project attribute to enable the container registry.
- Add a contributing section in README
- Add support for global deploy key listing
- Add support for project environments

- MR: get list of changes and commits
- Fix the listing of some resources
- MR: fix updates
- Handle empty messages from server in exceptions
- MR (un)subscribe: don't fail if state doesn't change
- MR merge(): update the object

6.7.55 v0.13 (2016-05-16)

- Add support for MergeRequest validation
- MR: add support for cancel_merge_when_build_succeeds
- MR: add support for closes_issues
- Add “external” parameter for users
- Add deletion support for issues and MR
- Add missing group creation parameters
- Add a Session instance for all HTTP requests
- Enable updates on ProjectIssueNotes
- Add support for Project raw_blob
- Implement project compare
- Implement project contributors
- Drop the next_url attribute when listing
- Remove unnecessary canUpdate property from ProjectIssuesNote
- Add new optional attributes for projects
- Enable deprecation warnings for gitlab only
- Rework merge requests update
- Rework the Gitlab.delete method
- ProjectFile: file_path is required for deletion
- Rename some methods to better match the API URLs
- Deprecate the file_* methods in favor of the files manager
- Implement star/unstar for projects
- Implement list/get licenses
- Manage optional parameters for list() and get()

6.7.56 v0.12.2 (2016-03-19)

- Add new ProjectHook attributes
- Add support for user block/unblock
- Fix GitlabObject creation in `_custom_list`
- Add support for more CLI subcommands
- Add some unit tests for CLI
- Add a coverage tox env
- Define `GitlabObject.as_dict()` to dump object as a dict
- Define `GitlabObject.__eq__()` and `__ne__()` equivalence methods
- Define `UserManager.search()` to search for users
- Define `UserManager.get_by_username()` to get a user by username
- Implement “user search” CLI
- Improve the doc for `UserManager`
- CLI: implement user get-by-username
- Re-implement `_custom_list` in the `Gitlab` class
- Fix the ‘invalid syntax’ error on Python 3.2
- `Gitlab.update()`: use the proper attributes if defined

6.7.57 v0.12.1 (2016-02-03)

- Fix a broken upload to pypi

6.7.58 v0.12 (2016-02-03)

- Improve documentation
- Improve unit tests
- Improve test scripts
- Skip `BaseManager` attributes when encoding to JSON
- Fix the `json()` method for python 3
- Add Travis CI support
- Add a decode method for `ProjectFile`
- Make connection exceptions more explicit
- Fix `ProjectLabel` get and delete
- Implement `ProjectMilestone.issues()`
- `ProjectTag` supports deletion
- Implement setting release info on a tag
- Implement project triggers support

- Implement project variables support
- Add support for application settings
- Fix the ‘password’ requirement for User creation
- Add sudo support
- Fix project update
- Fix Project.tree()
- Add support for project builds

6.7.59 v0.11.1 (2016-01-17)

- Fix discovery of parents object attrs for managers
- Support setting commit status
- Support deletion without getting the object first
- Improve the documentation

6.7.60 v0.11 (2016-01-09)

- functional_tests.sh: support python 2 and 3
- Add a get method for GitlabObject
- CLI: Add the -g short option for –gitlab
- Provide a create method for GitlabObject’s
- Rename the _created attribute _from_api
- More unit tests
- CLI: fix error when arguments are missing (python 3)
- Remove deprecated methods
- Implement managers to get access to resources
- Documentation improvements
- Add fork project support
- Deprecate the “old” Gitlab methods
- Add support for groups search

6.7.61 v0.10 (2015-12-29)

- Implement pagination for list() (#63)
- Fix url when fetching a single MergeRequest
- Add support to update MergeRequestNotes
- API: Provide a Gitlab.from_config method
- setup.py: require requests>=1 (#69)

- Fix deletion of object not using 'id' as ID (#68)
- Fix GET/POST for project files
- Make 'confirm' an optional attribute for user creation
- Python 3 compatibility fixes
- Add support for group members update (#73)

6.7.62 v0.9.2 (2015-07-11)

- CLI: fix the update and delete subcommands (#62)

6.7.63 v0.9.1 (2015-05-15)

- Fix the setup.py script

6.7.64 v0.9 (2015-05-15)

- Implement argparse library for parsing argument on CLI
- Provide unit tests and (a few) functional tests
- Provide PEP8 tests
- Use tox to run the tests
- CLI: provide a --config-file option
- Turn the gitlab module into a proper package
- Allow projects to be updated
- Use more pythonic names for some methods
- Deprecate some Gitlab object methods:
 - raw* methods should never have been exposed; replace them with _raw_* methods
 - setCredentials and setToken are replaced with set_credentials and set_token
- Sphinx: don't hardcode the version in conf.py

6.7.65 v0.8 (2014-10-26)

- Better python 2.6 and python 3 support
- Timeout support in HTTP requests
- Gitlab.get() raised GitlabListError instead of GitlabGetError
- Support api-objects which don't have id in api response
- Add ProjectLabel and ProjectFile classes
- Moved url attributes to separate list
- Added list for delete attributes

6.7.66 v0.7 (2014-08-21)

- Fix license classifier in `setup.py`
- Fix encoding error when printing to redirected output
- Fix encoding error when updating with redirected output
- Add support for UserKey listing and deletion
- Add support for branches creation and deletion
- Support `state_event` in ProjectMilestone (#30)
- Support namespace/name for project id (#28)
- Fix handling of boolean values (#22)

6.7.67 v0.6 (2014-01-16)

- IDs can be unicode (#15)
- ProjectMember: constructor should not create a User object
- Add support for extra parameters when listing all projects (#12)
- Projects listing: explicitly define arguments for pagination

6.7.68 v0.5 (2013-12-26)

- Add SSH key for user
- Fix comments
- Add support for project events
- Support creation of projects for users
- Project: add methods for create/update/delete files
- Support projects listing: search, all, owned
- System hooks can't be updated
- Project.archive(): download tarball of the project
- Define new optional attributes for user creation
- Provide constants for access permissions in groups

6.7.69 v0.4 (2013-09-26)

- Fix strings encoding (Closes #6)
- Allow to get a project commit (GitLab 6.1)
- ProjectMergeRequest: fix Note() method
- Gitlab 6.1 methods: diff, blob (commit), tree, blob (project)
- Add support for Gitlab 6.1 group members

6.7.70 v0.3 (2013-08-27)

- Use PRIVATE-TOKEN header for passing the auth token
- provide an AUTHORS file
- cli: support ssl_verify config option
- Add ssl_verify option to Gitlab object. Defaults to True
- Correct url for merge requests API.

6.7.71 v0.2 (2013-08-08)

- provide a pip requirements.txt
- drop some debug statements

6.7.72 v0.1 (2013-07-08)

- Initial release

6.8 Release notes

Prior to version 2.0.0 and GitHub Releases, a summary of changes was maintained in release notes. They are available below for historical purposes. For the list of current releases, including breaking changes, please see the changelog.

6.8.1 Changes from 1.8 to 1.9

- `ProjectMemberManager.all()` and `GroupMemberManager.all()` now return a list of `ProjectMember` and `GroupMember` objects respectively, instead of a list of dicts.

6.8.2 Changes from 1.7 to 1.8

- You can now use the `query_parameters` argument in method calls to define arguments to send to the GitLab server. This allows to avoid conflicts between python-gitlab and GitLab server variables, and allows to use the python reserved keywords as GitLab arguments.

The following examples make the same GitLab request with the 2 syntaxes:

```
projects = gl.projects.list(owned=True, starred=True)
projects = gl.projects.list(query_parameters={'owned': True, 'starred': True})
```

The following example only works with the new parameter:

```
activities = gl.user_activities.list(
    query_parameters={'from': '2019-01-01'},
    all=True)
```

- Additionally the `all` parameter is not sent to the GitLab anymore.

6.8.3 Changes from 1.5 to 1.6

- When python-gitlab detects HTTP redirections from http to https it will raise a `RedirectionError` instead of a cryptic error.

Make sure to use an `https://` protocol in your GitLab URL parameter if the server requires it.

6.8.4 Changes from 1.4 to 1.5

- APIv3 support has been removed. Use the 1.4 release/branch if you need v3 support.
- GitLab EE features are now supported: Geo nodes, issue links, LDAP groups, project/group boards, project mirror pulling, project push rules, EE license configuration, epics.
- The `GetFromListMixin` class has been removed. The `get()` method is not available anymore for the following managers:
 - `UserKeyManager`
 - `DeployKeyManager`
 - `GroupAccessRequestManager`
 - `GroupIssueManager`
 - `GroupProjectManager`
 - `GroupSubgroupManager`
 - `IssueManager`
 - `ProjectCommitStatusManager`
 - `ProjectEnvironmentManager`
 - `ProjectLabelManager`
 - `ProjectPipelineJobManager`
 - `ProjectAccessRequestManager`
 - `TodoManager`
- `ProjectPipelineJob` do not heritate from `ProjectJob` anymore and thus can only be listed.

6.8.5 Changes from 1.3 to 1.4

- 1.4 is the last release supporting the v3 API, and the related code will be removed in the 1.5 version.

If you are using a Gitlab server version that does not support the v4 API you can:

- upgrade the server (recommended)
- make sure to use version 1.4 of python-gitlab (`pip install python-gitlab==1.4`)

See also the [Switching to GitLab API v4 documentation](#).

- python-gitlab now handles the server rate limiting feature. It will pause for the required time when reaching the limit ([documentation](#))
- The `GetFromListMixin.get()` method is deprecated and will be removed in the next python-gitlab version. The goal of this mixin/method is to provide a way to get an object by looping through a list for GitLab objects that don't support the GET method. The method is [broken](#) and conflicts with the GET method now supported by some GitLab objects.

You can implement your own method with something like:

```
def get_from_list(self, id):
    for obj in self.list(as_list=False):
        if obj.get_id() == id:
            return obj
```

- The GroupMemberManager, NamespaceManager and ProjectBoardManager managers now use the GET API from GitLab instead of the GetFromListMixin.get() method.

6.8.6 Changes from 1.2 to 1.3

- gitlab.Gitlab objects can be used as context managers in a with block.

6.8.7 Changes from 1.1 to 1.2

- python-gitlab now respects the *_proxy, REQUESTS_CA_BUNDLE and CURL_CA_BUNDLE environment variables (#352)
- The following deprecated methods and objects have been removed:
 - gitlab.v3.object Key and KeyManager objects: use DeployKey and DeployKeyManager instead
 - gitlab.v3.objects.Project archive_ and unarchive_ methods
 - gitlab.Gitlab credentials_auth, token_auth, set_url, set_token and set_credentials methods. Once a Gitlab object has been created its URL and authentication information cannot be updated: create a new Gitlab object if you need to use new information
- The todo() method raises a GitlabTodoError exception on error

6.8.8 Changes from 1.0.2 to 1.1

- The ProjectUser class doesn't inherit from User anymore, and the GroupProject class doesn't inherit from Project anymore. The Gitlab API doesn't provide the same set of features for these objects, so python-gitlab objects shouldn't try to workaround that.

You can create User or Project objects from ProjectUser and GroupProject objects using the id attribute:

```
for gr_project in group.projects.list():
    # lazy object creation avoids a Gitlab API request
    project = gl.projects.get(gr_project.id, lazy=True)
    project.default_branch = 'develop'
    project.save()
```

6.8.9 Changes from 0.21 to 1.0.0

1.0.0 brings a stable python-gitlab API for the v4 Gitlab API. v3 is still used by default.

v4 is mostly compatible with the v3, but some important changes have been introduced. Make sure to read [Switching to GitLab API v4](#).

The development focus will be v4 from now on. v3 has been deprecated by GitLab and will disappear from python-gitlab at some point.

6.8.10 Changes from 0.20 to 0.21

- Initial support for the v4 API (experimental)

The support for v4 is stable enough to be tested, but some features might be broken. Please report issues to <https://github.com/python-gitlab/python-gitlab/issues/>

Be aware that the python-gitlab API for v4 objects might change in the next releases.

Warning: Consider defining explicitly which API version you want to use in the configuration files or in your `gitlab.Gitlab` instances. The default will change from v3 to v4 soon.

- Several methods have been deprecated in the `gitlab.Gitlab` class:
 - `credentials_auth()` is deprecated and will be removed. Call `auth()`.
 - `token_auth()` is deprecated and will be removed. Call `auth()`.
 - `set_url()` is deprecated, create a new `Gitlab` instance if you need an updated URL.
 - `set_token()` is deprecated, use the `private_token` argument of the `Gitlab` constructor.
 - `set_credentials()` is deprecated, use the `email` and `password` arguments of the `Gitlab` constructor.
- The service listing method (`ProjectServiceManager.list()`) now returns a python list instead of a JSON string.

6.8.11 Changes from 0.19 to 0.20

- The `projects` attribute of `Group` objects is not a list of `Project` objects anymore. It is a `Manager` object giving access to `GroupProject` objects. To get the list of projects use:

```
group.projects.list()
```

Documentation: http://python-gitlab.readthedocs.io/en/stable/gl_objects/groups.html#examples

Related issue: <https://github.com/python-gitlab/python-gitlab/issues/209>

- The `Key` objects are deprecated in favor of the new `DeployKey` objects. They are exactly the same but the name makes more sense.

Documentation: http://python-gitlab.readthedocs.io/en/stable/gl_objects/deploy_keys.html

Related issue: <https://github.com/python-gitlab/python-gitlab/issues/212>

6.9 FAQ

I cannot edit the merge request / issue I've just retrieved It is likely that you used a `MergeRequest`, `GroupMergeRequest`, `Issue` or `GroupIssue` object. These objects cannot be edited. But you can create a new `ProjectMergeRequest` or `ProjectIssue` object to apply changes. For example:

```
issue = gl.issues.list()[0]
project = gl.projects.get(issue.project_id, lazy=True)
editable_issue = project.issues.get(issue.iid, lazy=True)
# you can now edit the object
```

See the *merge requests example* and the *issues examples*.

I get an `AttributeError` when accessing attributes of an object retrieved via a `list()` call. Fetching a list of objects, doesn't always include all attributes in the objects. To retrieve an object with all attributes use a `get()` call.

Example with projects:

```
for projects in gl.projects.list():
    # Retrieve project object with all attributes
    project = gl.projects.get(project.id)
```

How can I clone the repository of a project? python-gitlab doesn't provide an API to clone a project. You have to use a git library or call the git command.

The git URI is exposed in the `ssh_url_to_repo` attribute of `Project` objects.

Example:

```
import subprocess

project = gl.projects.create(data) # or gl.projects.get(project_id)
print(project.attributes) # displays all the attributes
git_url = project.ssh_url_to_repo
subprocess.call(['git', 'clone', git_url])
```

I get an `AttributeError` when accessing attributes after `save()` or `refresh()`. You are most likely trying to access an attribute that was not returned by the server on the second request. Please look at the documentation in *Attributes in updated objects* to see how to avoid this.

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