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# **python-gitlab Documentation**

***Release 2.9.0***

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## INSTALLATION

python-gitlab is compatible with Python 3.6+.

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

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

The current development version is available on [github](https://github.com/python-gitlab/python-gitlab). Use **git** and **python setup.py** to install it:

```
$ git clone https://github.com/python-gitlab/python-gitlab
$ cd python-gitlab
$ sudo python setup.py install
```



## GITLAB CLI USAGE

`python-gitlab` provides a **gitlab** command-line tool to interact with GitLab servers. It uses a configuration file to define how to connect to the servers.

### 2.1 Configuration

#### 2.1.1 Files

`gitlab` looks up 3 configuration files by default:

**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.

#### 2.1.2 Content

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

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

**Warning:** If the GitLab server you are using redirects requests from `http` to `https`, make sure to use the `https://` protocol in the `url` definition.

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

### 2.1.3 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://somewhe.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://somewhe.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
```

## 2.2 CLI

### 2.2.1 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
```

## 2.2.2 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`.

**Notice:**

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
```

## 2.3 Examples

**Notice:**

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

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
```

Get a specific user by id:

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

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
```

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
```

Get a list of issues for this project:

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

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"
```

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"
```

Download the artifacts zip archive of a job:

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

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
```

### 2.3.1 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
```

## 2.4 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.



### 2.4.1 Bash

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

### 2.4.2 tcsh

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

### 2.4.3 fish

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

### 2.4.4 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)"
```



## GETTING STARTED WITH THE API

python-gitlab only supports GitLab APIs v4.

### 3.1 gitlab.Gitlab class

To connect to a GitLab server, create a `gitlab.Gitlab` object:

```
import gitlab

# private token or personal token authentication
gl = gitlab.Gitlab('http://10.0.0.1', private_token='JVNSEs8EwWRx5yDxM5q')

# oauth token authentication
gl = gitlab.Gitlab('http://10.0.0.1', oauth_token='my_long_token_here')

# job token authentication (to be used in CI)
import os
gl = gitlab.Gitlab('http://10.0.0.1', job_token=os.environ['CI_JOB_TOKEN'])

# anonymous gitlab instance, read-only for public resources
gl = gitlab.Gitlab('http://10.0.0.1')

# Define your own custom user agent for requests
gl = gitlab.Gitlab('http://10.0.0.1', 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.
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:** If the GitLab server you are using redirects requests from http to https, make sure to use the `https://` protocol in the URL definition.

### 3.1.1 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.

## 3.2 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
```

## 3.3 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()
```

## 3.4 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.

## 3.5 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
```

## 3.6 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
- `total`: total number of items in the list

## 3.7 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')
```

## 3.8 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.

### 3.8.1 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.

### 3.8.2 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>

### 3.8.3 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>

### 3.8.4 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>

### 3.8.5 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.



### 3.8.6 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 (Bad Gateway), 503 (Service Unavailable), and 504 (Gateway Timeout) are retried. By default 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)
```

### 3.8.7 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)
```

## 3.9 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.



**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*.

**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.



## API EXAMPLES

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

#### 5.1.1 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](https://docs.gitlab.com/ce/api/access_requests.html)

#### 5.1.2 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.MAINTAINER_ACCESS) # explicitly set access level
```

Deny (delete) an access request:

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

## 5.2 Appearance

### 5.2.1 Reference

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

### 5.2.2 Examples

Get the appearance:

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

Update the appearance:

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

## 5.3 Applications

### 5.3.1 Reference

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

### 5.3.2 Examples

List all OAuth applications:

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

Create an application:

```
gl.applications.create({'name': 'your_app', 'redirect_uri': 'http://application.url',
↳ 'scopes': ['api']})
```

Delete an applications:

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

## 5.4 Award Emojis

### 5.4.1 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](https://docs.gitlab.com/ce/api/award_emoji.html)

## 5.4.2 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)
```

## 5.5 Badges

Badges can be associated with groups and projects.

### 5.5.1 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/group_badges.html)
  - [https://docs.gitlab.com/ce/api/project\\_badges.html](https://docs.gitlab.com/ce/api/project_badges.html)

### 5.5.2 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'])
```

## 5.6 Branches

### 5.6.1 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>

### 5.6.2 Examples

Get the list of branches for a repository:

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

Get a single repository branch:

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

Create a repository branch:

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

Delete a repository branch:

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

Protect/unprotect a repository branch:

```
branch.protect()
branch.unprotect()
```

**Note:** By default, developers are not authorized to push or merge into protected branches. This can be changed by passing `developers_can_push` or `developers_can_merge`:

```
branch.protect(developers_can_push=True, developers_can_merge=True)
```

Delete the merged branches for a project:

```
project.delete_merged_branches()
```

## 5.7 Clusters

### 5.7.1 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](https://docs.gitlab.com/ee/api/project_clusters.html)
- GitLab API: [https://docs.gitlab.com/ee/api/group\\_clusters.html](https://docs.gitlab.com/ee/api/group_clusters.html)

### 5.7.2 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()
```

## 5.8 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.

## 5.8.1 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](https://docs.gitlab.com/ce/api/broadcast_messages.html)

## 5.8.2 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()
```

## 5.9 Commits

### 5.9.1 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': 'master',
    '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()
```

## 5.9.2 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'})
```

### 5.9.3 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'})
```

## 5.10 Deploy keys

### 5.10.1 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](https://docs.gitlab.com/ce/api/deploy_keys.html)

#### Examples

List the deploy keys:

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

## 5.10.2 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](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_key.delete()
```

## 5.11 Deploy tokens

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



### 5.11.1 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](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()
```

### 5.11.2 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](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()
```

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)
```

### 5.11.3 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](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()
```

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)
```

## 5.12 Deployments

### 5.12.1 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>

### 5.12.2 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": "master",
    "tag": False,
    "status": "created",
})
```

Update a deployment:

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

## Merge requests associated with a deployment

### 5.12.3 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>

### 5.12.4 Examples

List the merge requests associated with a deployment:

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

## 5.13 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.

### 5.13.1 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>

### 5.13.2 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['note'][-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.diffs.get(diff_id)
mr.dussions.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',
```

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```
        '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()
```

## 5.14 Environments

### 5.14.1 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>

### 5.14.2 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()
```

## 5.15 Events

### 5.15.1 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()
```

## 5.15.2 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](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)
```

## 5.16 Epics

### 5.16.1 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()
```

## 5.16.2 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](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()
```

## 5.17 Features flags

### 5.17.1 Reference

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

### 5.17.2 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()
```

## 5.18 Geo nodes

### 5.18.1 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](https://docs.gitlab.com/ee/api/geo_nodes.html) (EE feature)

## 5.18.2 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()
```

## 5.19 Groups

### 5.19.1 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.DEVELOPER_ACCESS)  
group.unshare(group2.id)
```

## 5.19.2 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](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")
```

### 5.19.3 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()
```

---

### 5.19.4 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.

---

## 5.19.5 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](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'})
```

## 5.19.6 Group members

The following constants define the supported access levels:

- `gitlab.GUEST_ACCESS = 10`
- `gitlab.REPORTER_ACCESS = 20`
- `gitlab.DEVELOPER_ACCESS = 30`
- `gitlab.MAINTAINER_ACCESS = 40`
- `gitlab.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)
# or
members = group.members.all(all=True) # Deprecated
```

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.GUEST_ACCESS})
```

Update a member (change the access level):

```
member.access_level = gitlab.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()
```

### 5.19.7 LDAP group links

Add an LDAP group link to an existing GitLab group:

```
group.add_ldap_group_link(ldap_group_cn, gitlab.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')
```

### 5.19.8 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()
```

## 5.20 Issues

### 5.20.1 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()

```

## 5.20.2 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()

```

## 5.20.3 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()
```

## 5.20.4 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](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)
```

## 5.20.5 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](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')
```

## 5.21 Keys

### 5.21.1 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/OweAM6jA8OjJ/gXs4N5fqUaREEJnz/EyfywFXY")
```

## 5.22 Issue boards

### 5.22.1 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](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.

---

## 5.22.2 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](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()
```

## 5.23 Labels

### 5.23.1 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()
```

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()
```

### 5.23.2 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](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)
```

## 5.24 Notification settings

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

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

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

### 5.24.1 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](https://docs.gitlab.com/ce/api/notification_settings.html)

### 5.24.2 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.NOTIFICATION_LEVEL_WATCH

# create a custom setup
settings.level = gitlab.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()
```

## 5.25 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.

### 5.25.1 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](https://docs.gitlab.com/ce/api/merge_requests.html)

#### Examples

List the merge requests available on the GitLab server:

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

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()
```

## 5.25.2 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](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': 'master',  
                                   '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:

```
merge_request.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()
```

## 5.25.3 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](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()
```

## 5.26 Merge request approvals settings

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

### 5.26.1 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 API: [https://docs.gitlab.com/ee/api/merge\\_request\\_approvals.html](https://docs.gitlab.com/ee/api/merge_request_approvals.html)

## 5.26.2 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()
```

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()
```

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],
})
```

## 5.27 Milestones

### 5.27.1 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](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()
```

List the issues related to a milestone:

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

List the merge requests related to a milestone:

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

## 5.27.2 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](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)
```

## 5.28 Namespaces

### 5.28.1 Reference

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

### 5.28.2 Examples

List namespaces:

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

Search namespaces:

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

## 5.29 Notes

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

### 5.29.1 Reference

- v4 API:
  - 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>

## 5.29.2 Examples

List the notes for a resource:

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

Get a note for a resource:

```
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:

```
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()
```

## 5.30 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.

### 5.30.1 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)
```

### 5.30.2 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')
```

### 5.30.3 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()
```

### 5.30.4 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](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.

---

## 5.31 Pages domains

### 5.31.1 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](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()
```



### 5.31.2 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](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')
```

## 5.32 Personal Access Tokens

Get a list of personal access tokens

### 5.32.1 References

- v4 API:
  - `gitlab.v4.objects.PersonalAccessToken`
  - `gitlab.v4.objects.PersonalAccessTokenManager`
  - `gitlab.Gitlab.personal_access_tokens`
- GitLab API: [https://docs.gitlab.com/ee/api/personal\\_access\\_tokens.html](https://docs.gitlab.com/ee/api/personal_access_tokens.html)

## 5.32.2 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)
```

## 5.33 Pipelines and Jobs

### 5.33.1 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': 'master', '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()
```

### 5.33.2 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](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('master', trigger.token, variables={"DEPLOY_ZONE": "us-west1"})
```

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```
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('master', trigger_token)
```

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

### 5.33.3 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](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': 'master',
    'description': 'Daily test',
    'cron': '0 1 * * *'})
```

Update a schedule:

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

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()
```

## 5.33.4 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('master', 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(ref_name='master', job='build')
```

**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)
```

Get a single artifact file:

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

Get a single artifact file by branch and job:

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

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()
```

### 5.33.5 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()
```

### 5.33.6 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()
```

## 5.34 Projects

### 5.34.1 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)

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

**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)
```

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})
```

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
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="master",
    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')
```

**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('master', '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()
```

## 5.34.2 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](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()
```

### 5.34.3 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](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'})
```

## 5.34.4 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](https://docs.gitlab.com/ce/api/repository_files.html)

### Examples

Get a file:

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

Create a new file:

```
f = project.files.create({'file_path': 'testfile.txt',  
                          'branch': 'master',  
                          'content': file_content,  
                          'author_email': 'test@example.com',  
                          'author_name': 'yourname',  
                          'encoding': 'text',  
                          '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='master', 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='master', commit_message='Update testfile', encoding='base64')
```

Delete a file:

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

Get file blame:

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

### 5.34.5 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': 'master'})
```

Delete a tag:

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

### 5.34.6 Project snippets

The snippet visibility can be defined using the following constants:

- `gitlab.VISIBILITY_PRIVATE`
- `gitlab.VISIBILITY_INTERNAL`
- `gitlab.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](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.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()
```

### 5.34.7 Notes

See *Notes*.

### 5.34.8 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)
# or
members = project.members.all(all=True) # Deprecated
```

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.DEVELOPER_ACCESS})
```

Modify a project member (change the access level):

```
member.access_level = gitlab.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.DEVELOPER_ACCESS)
project.unshare(group.id)
```

## 5.34.9 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()
```

### 5.34.10 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()
```

### 5.34.11 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"])
})
```

## 5.34.12 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 = '^((master|develop|support-\d+|release-\d+\.\.+|hotfix-\d+\.\d+|feature-\d+)\.?)$'
pr.save()
```

Delete project push rules:

```
pr.delete()
```

### 5.34.13 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](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()
```

### 5.34.14 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](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']
```

## 5.35 Project Access Tokens

Get a list of project access tokens

### 5.35.1 References

- v4 API:
  - `gitlab.v4.objects.ProjectAccessToken`
  - `gitlab.v4.objects.ProjectAccessTokenManager`
  - `gitlab.Gitlab.project_access_tokens`
- GitLab API: [https://docs.gitlab.com/ee/api/resource\\_access\\_tokens.html](https://docs.gitlab.com/ee/api/resource_access_tokens.html)

### 5.35.2 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"]})
```

Revoke a project access tokens:

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

## 5.36 Protected branches

You can define a list of protected branch names on a repository. Names can use wildcards (\*).

### 5.36.1 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](https://docs.gitlab.com/ce/api/protected_branches.html#protected-branches-api)

### 5.36.2 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('master')
```

Create a protected branch:

```
p_branch = project.protectedbranches.create({
    'name': '*-stable',
    'merge_access_level': gitlab.DEVELOPER_ACCESS,
    'push_access_level': gitlab.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.MAINTAINER_ACCESS}]
})
```

Delete a protected branch:

```
project.protectedbranches.delete('*-stable')
# or
p_branch.delete()
```

## 5.37 Releases

### 5.37.1 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:

```
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()
```

### 5.37.2 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()
```

## 5.38 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.

### 5.38.1 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()
```

Verify a registered runner token:

```
try:
    gl.runners.verify(runner_token)
    print("Valid token")
except GitlabVerifyError:
    print("Invalid token")
```

## 5.38.2 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)
```

## 5.38.3 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')
```

## 5.39 Project Remote Mirrors

Remote Mirrors allow you to set up push mirroring for a project.

### 5.39.1 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](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()
```

## 5.40 Registry Repositories

### 5.40.1 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](https://docs.gitlab.com/ce/api/container_registry.html)

### 5.40.2 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()
```

## 5.41 Registry Repository Tags

### 5.41.1 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](https://docs.gitlab.com/ce/api/container_registry.html)

### 5.41.2 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](https://docs.gitlab.com/ce/api/container_registry.html#delete-repository-tags-in-bulk)

---

## 5.42 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.SEARCH_SCOPE_PROJECTS`: projects
  - `gitlab.SEARCH_SCOPE_ISSUES`: issues
  - `gitlab.SEARCH_SCOPE_MERGE_REQUESTS`: merge\_requests
  - `gitlab.SEARCH_SCOPE_MILESTONES`: milestones
  - `gitlab.SEARCH_SCOPE_WIKI_BLOBS`: wiki\_blobs
  - `gitlab.SEARCH_SCOPE_COMMITS`: commits
  - `gitlab.SEARCH_SCOPE_BLOBS`: blobs
  - `gitlab.SEARCH_SCOPE_USERS`: users
- specific global scope:
  - `gitlab.SEARCH_SCOPE_GLOBAL_SNIPPET_TITLES`: snippet\_titles
- specific project scope:
  - `gitlab.SEARCH_SCOPE_PROJECT_NOTES`: notes

### 5.42.1 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>

### 5.42.2 Examples

Search for issues matching a specific string:

```
# global search
gl.search(gitlab.SEARCH_SCOPE_ISSUES, 'regression')

# group search
group = gl.groups.get('mygroup')
group.search(gitlab.SEARCH_SCOPE_ISSUES, 'regression')

# project search
project = gl.projects.get('myproject')
project.search(gitlab.SEARCH_SCOPE_ISSUES, 'regression')
```

The `search()` methods implement the pagination support:

```
# get lists of 10 items, and start at page 2
gl.search(gitlab.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.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.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()
```

## 5.43 Settings

### 5.43.1 Reference

- v4 API:
  - `gitlab.v4.objects.ApplicationSettings`
  - `gitlab.v4.objects.ApplicationSettingsManager`
  - `gitlab.Gitlab.settings`

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

## 5.43.2 Examples

Get the settings:

```
settings = gl.settings.get()
```

Update the settings:

```
settings.signin_enabled = False
settings.save()
```

## 5.44 Snippets

### 5.44.1 Reference

- v4 API:
  - `gitlab.v4.objects.Snippet`
  - `gitlab.v4.objects.SnippetManager`
  - `gitlab.Gitlab.snippets`
- GitLab API: <https://docs.gitlab.com/ce/api/snippets.html>

### 5.44.2 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.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()
```

## 5.45 System hooks

### 5.45.1 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](https://docs.gitlab.com/ce/api/system_hooks.html)

### 5.45.2 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()
```

## 5.46 Templates

You can request templates for different type of files:

- License files
- .gitignore files
- GitLab CI configuration files
- Dockerfiles

### 5.46.1 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)
```

### 5.46.2 .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)
```

### 5.46.3 GitLab CI templates

#### Reference

- v4 API:
  - `gitlab.v4.objects.Gitlabciyaml`
  - `gitlab.v4.objects.GitlabciyamlManager`
  - `gitlab.Gitlab.gitlabciyaml`
- GitLab API: [https://docs.gitlab.com/ce/api/templates/gitlab\\_ci\\_ymls.html](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)
```

### 5.46.4 Dockerfile templates

#### Reference

- v4 API:
  - `gitlab.v4.objects.Dockerfile`
  - `gitlab.v4.objects.DockerfileManager`
  - `gitlab.Gitlab.gitlabciyaml`
- 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)
```

## 5.47 Todos

### 5.47.1 Reference

- v4 API:
  - Todo
  - TodoManager
  - *gitlab.Gitlab.todos*
- GitLab API: <https://docs.gitlab.com/ce/api/todos.html>

### 5.47.2 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()
```

## 5.48 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.

### 5.48.1 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>

#### 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()
```

## 5.48.2 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](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'})
```

## 5.48.3 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()
```

## 5.48.4 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')
```

## 5.48.5 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
```



## 5.48.6 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()
```

## 5.48.7 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:

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

Delete an SSH key for a user:

```
user.keys.delete(key_id)  
# or  
key.delete()
```

## 5.48.8 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()
```

## 5.48.9 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()
```

## 5.48.10 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)
```

## 5.49 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.

### 5.49.1 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](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()
```

## 5.49.2 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/instance_level_ci_variables.html)
  - [https://docs.gitlab.com/ce/api/project\\_level\\_variables.html](https://docs.gitlab.com/ce/api/project_level_variables.html)
  - [https://docs.gitlab.com/ce/api/group\\_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()
```

Remove a variable:

```
project.variables.delete('key_name')
group.variables.delete('key_name')
# or
var.delete()
```

## 5.50 Sidekiq metrics

### 5.50.1 Reference

- v4 API:
  - `gitlab.v4.objects.SidekiqManager`
  - `gitlab.Gitlab.sidekiq`
- GitLab API: [https://docs.gitlab.com/ce/api/sidekiq\\_metrics.html](https://docs.gitlab.com/ce/api/sidekiq_metrics.html)

### 5.50.2 Examples

```
gl.sidekiq.queue_metrics()
gl.sidekiq.process_metrics()
gl.sidekiq.job_stats()
gl.sidekiq.compound_metrics()
```

## 5.51 Wiki pages

### 5.51.1 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](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()
```





## API REFERENCE (GITLAB PACKAGE)

### 6.1 Module contents

Wrapper for the GitLab API.

```
class gitlab.Gitlab(url: str, 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/2.9.0')
```

Bases: object

Represents a GitLab server connection.

#### Parameters

- **url** (*str*) – The URL of the GitLab server.
- **private\_token** (*str*) – The user private token
- **oauth\_token** (*str*) – An oauth token
- **job\_token** (*str*) – A CI job token
- **ssl\_verify** (*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** (*float*) – Timeout to use for requests to the GitLab server.
- **http\_username** (*str*) – Username for HTTP authentication
- **http\_password** (*str*) – Password for HTTP authentication
- **api\_version** (*str*) – Gitlab API version to use (support for 4 only)
- **pagination** (*str*) – Can be set to 'keyset' to use keyset pagination
- **order\_by** (*str*) – Set order\_by globally
- **user\_agent** (*str*) – A custom user agent to use for making HTTP requests.

**property api\_url**

The computed API base URL.

**property api\_version**

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.

**broadcastmessages**

See [\*BroadcastMessageManager\*](#)

**deploykeys**

See [\*DeployKeyManager\*](#)

**deploytokens**

See [\*DeployTokenManager\*](#)

**dockerfiles**

See [\*DockerfileManager\*](#)

**enable\_debug()** → 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**(*str*) – ID of the configuration section.
- **list[str]** (*config\_files*) – List of paths to configuration files.

**Returns** A Gitlab connection.

**Return type** (*gitlab.Gitlab*)

**Raises** [\*gitlab.config.GitlabDataError\*](#) – If the configuration is not correct.

**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)

**Raises**

- [\*GitlabAuthenticationError\*](#) – If authentication is not correct
- [\*GitlabGetError\*](#) – If the server cannot perform the request

**Returns** The current license information

**Return type** dict

**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)

**Returns** The requests object.**Raises** *GitlabHttpError* – When the return code is not 2xx**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** (*dict*) – 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)

**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

**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** (*dict*) – Data to send as query parameters
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo, page, per\_page)

**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.

**Return type** list

**Raises**

- **`GitlabHttpError`** – When the return code is not 2xx
- **`GitlabParsingError`** – If the json data could not be parsed

**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`** (dict) – Data to send as query parameters
- **`post_data`** (dict) – 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`** (dict) – The files to send to the server
- **`**kwargs`** – Extra options to send to the server (e.g. sudo)

**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

**http\_put** (*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 PUT request to the Gitlab server.

**Parameters**

- **`path`** (str) – Path or full URL to query ('/projects' or '<http://whatever/v4/api/projects>')
- **`query_data`** (dict) – Data to send as query parameters
- **`post_data`** (dict) – 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`** (dict) – The files to send to the server
- **`**kwargs`** – Extra options to send to the server (e.g. sudo)

**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

**http\_request** (*verb*: str, *path*: str, *query\_data*: Optional[Dict[str, Any]] = None, *post\_data*: Optional[Dict[str, Any]] = 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*: bool = False, *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** (*dict*) – Data to send as query parameters
- **post\_data** (*dict*) – 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** (*dict*) – The files to send to the server
- **timeout** (*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** (*bool*) – Whether to retry after 500, 502, 503, or 504 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)

**Returns** A requests result object.

**Raises** [\*GitlabHttpError\*](#) – When the return code is not 2xx

**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** (*txt*) – The .gitlab-ci.yml content
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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

**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** (*str*) – Full path of a project used a context when *gfm* is True
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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

**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)

**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** [\*GitlabList\*](#)

**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)

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabPostError** – If the server cannot perform the request

**Returns** The new license information

**Return type** dict

**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*

**property url**

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.

**property** `current_page`

The current page number.

**next** () → Dict[str, Any]

**property** `next_page`

The next page number.

If None, the current page is the last.

**property** `per_page`

The number of items per page.

**property** `prev_page`

The previous page number.

If None, the current page is the first.

**property** `total`

The total number of items.

**property** `total_pages`

The total number of pages.

## 6.2 Subpackages

### 6.2.1 gitlab.v4 package

#### Submodules

##### gitlab.v4.objects module

```
class gitlab.v4.objects.Application (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**manager**: `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ApplicationAppearance (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.base.RESTObject`

**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

Optional attributes for object update:

- title



- description
- logo
- header\_logo
- favicon
- new\_project\_guidelines
- header\_message
- footer\_message
- message\_background\_color
- message\_font\_color
- email\_header\_and\_footer\_enabled

**gitlab:** `gitlab.client.Gitlab`

**update** (*id=None, new\_data=None, \*\*kwargs*)  
Update an object on the server.

#### Parameters

- **id** – ID of the object to update (can be None if not required)
- **new\_data** – the update data for the object
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Returns** The new object data (*not* a RESTObject)

**Return type** dict

#### Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabUpdateError* – If the server cannot perform the request

**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

Mandatory attributes:

- name
- redirect\_uri
- scopes

Optional attributes:

- confidential

#### Object update

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.ApplicationSettings` (*manager: gitlab.base.RESTManager, attrs: Dict[str, Any]*)  
Bases: `gitlab.mixins.SaveMixin`, `gitlab.base.RESTObject`

**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

Optional attributes for object update:

- `id`
- `default_projects_limit`
- `signup_enabled`
- `password_authentication_enabled_for_web`
- `gravatar_enabled`
- `sign_in_text`
- `created_at`
- `updated_at`
- `home_page_url`
- `default_branch_protection`
- `restricted_visibility_levels`
- `max_attachment_size`
- `session_expire_delay`
- `default_project_visibility`
- `default_snippet_visibility`
- `default_group_visibility`
- `outbound_local_requests_whitelist`
- `disabled_oauth_sign_in_sources`
- `domain_whitelist`
- `domain_blacklist_enabled`
- `domain_blacklist`
- `domain_allowlist`
- `domain_denylist_enabled`
- `domain_denylist`
- `external_authorization_service_enabled`
- `external_authorization_service_url`
- `external_authorization_service_default_label`
- `external_authorization_service_timeout`

- `import_sources`
- `user_oauth_applications`
- `after_sign_out_path`
- `container_registry_token_expire_delay`
- `repository_storages`
- `plantuml_enabled`
- `plantuml_url`
- `terminal_max_session_time`
- `polling_interval_multiplier`
- `rsa_key_restriction`
- `dsa_key_restriction`
- `ecdsa_key_restriction`
- `ed25519_key_restriction`
- `first_day_of_week`
- `enforce_terms`
- `terms`
- `performance_bar_allowed_group_id`
- `instance_statistics_visibility_private`
- `user_show_add_ssh_key_message`
- `file_template_project_id`
- `local_markdown_version`
- `asset_proxy_enabled`
- `asset_proxy_url`
- `asset_proxy_whitelist`
- `asset_proxy_allowlist`
- `geo_node_allowed_ips`
- `allow_local_requests_from_hooks_and_services`
- `allow_local_requests_from_web_hooks_and_services`
- `allow_local_requests_from_system_hooks`

**gitlab:** `gitlab.client.Gitlab`

**update** (*id=None, new\_data=None, \*\*kwargs*)

Update an object on the server.

#### Parameters

- **id** – ID of the object to update (can be None if not required)
- **new\_data** – the update data for the object
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Returns** The new object data (*not* a RESTObject)

**Return type** dict

**Raises**

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabUpdateError*** – If the server cannot perform the request

```
class gitlab.v4.objects.AuditEvent (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: *gitlab.base.RESTObject*

**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**

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.BroadcastMessage (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

**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**

**Mandatory attributes:**

- `message`

**Optional attributes:**

- `starts_at`
- `ends_at`
- `color`
- `font`

**Object update**

**Optional attributes for object update:**

- `message`

- starts\_at
- ends\_at
- color
- font

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.CurrentUser` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

**class** `gitlab.v4.objects.CurrentUserEmail` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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

Mandatory attributes:

- email

#### Object update

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.CurrentUserGPGKey` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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

Mandatory attributes:

- key

#### Object update

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.CurrentUserKey` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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

Mandatory attributes:

- title
- key

#### Object update

**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

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.CurrentUserStatus (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.base.RESTObject
```

**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

Optional attributes for object update:

- emoji
- message

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.DeployKey (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.base.RESTObject
```

**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

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.DeployToken (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
    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**

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.Dockerfile (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.base.RESTObject
    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**

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.Event (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.base.RESTObject
    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**

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.Feature (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
    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

**gitlab:** `gitlab.client.Gitlab`

**set** (*name*, *value*, *feature\_group=None*, *user=None*, *group=None*, *project=None*, *\*\*kwargs*)  
Create or update the object.

#### Parameters

- **name** (*str*) – The value to set for the object
- **value** (*bool/int*) – The value to set for the object
- **feature\_group** (*str*) – A feature group name
- **user** (*str*) – A GitLab username
- **group** (*str*) – A GitLab group
- **project** (*str*) – A GitLab project in form group/project
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

#### Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabSetError` – If an error occurred

**Returns** The created/updated attribute

**Return type** `obj`

```
class gitlab.v4.objects.GenericPackage (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.base.RESTObject`

**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

**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** (*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)



**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** str

**gitlab:** `gitlab.client.Gitlab`

**upload** (*package\_name: str, package\_version: str, file\_name: str, path: Union[str, pathlib.Path], \*\*kwargs*) → `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** (*str*) – The path to a local file to upload

**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** `GenericPackage`

**class** `gitlab.v4.objects.GeoNode` (*manager: gitlab.base.RESTManager, attrs: Dict[str, Any]*)  
 Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

**repair** (*\*\*kwargs*)

Repair the OAuth authentication of the geo node.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabRepairError` – If the server failed to perform the request

**status** (*\*\*kwargs*)

Get the status of the geo node.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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

**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**

Optional attributes for object update:

- enabled
- url
- files\_max\_capacity
- repos\_max\_capacity

**current\_failures** (\*\*kwargs)

Get the list of failures on the current geo node.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server failed to perform the request

**Returns** The list of failures

**Return type** list

**gitlab:** *gitlab.client.Gitlab*

**status** (\*\*kwargs)

Get the status of all the geo nodes.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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

**class** gitlab.v4.objects.**Gitignore** (manager: *gitlab.base.RESTManager*, attrs: *Dict[str, Any]*)  
Bases: *gitlab.base.RESTObject*

**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**

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.Gitlabciyaml(manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.base.RESTObject`

**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**

**gitlab**: `gitlab.client.Gitlab`

```
class gitlab.v4.objects.Group(manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

```
add_ldap_group_link(cn, group_access, provider, **kwargs)
```

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)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the server cannot perform the request

```
delete_ldap_group_link(cn, provider=None, **kwargs)
```

Delete an LDAP group link.

**Parameters**

- **cn** (*str*) – CN of the LDAP group
- **provider** (*str*) – LDAP provider for the LDAP group
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabDeleteError` – If the server cannot perform the request

```
ldap_sync(**kwargs)
```

Sync LDAP groups.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the server cannot perform the request

**manager**: `gitlab.base.RESTManager`

**search** (*scope*, *search*, *\*\*kwargs*)

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)

**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** [`GitlabList`](#)

**share** (*group\_id*, *group\_access*, *expires\_at=None*, *\*\*kwargs*)

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)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabCreateError`](#) – If the server failed to perform the request

**transfer\_project** (*to\_project\_id*, *\*\*kwargs*)

Transfer a project to this group.

**Parameters**

- **to\_project\_id** (*int*) – ID of the project to transfer
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabTransferProjectError`](#) – If the project could not be transferred

**unshare** (*group\_id*, *\*\*kwargs*)

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)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabDeleteError`](#) – If the server failed to perform the request

```
class gitlab.v4.objects.GroupAccessRequest (manager: gitlab.base.RESTManager, attrs:
                                         Dict[str, Any])
    Bases: gitlab.mixins.AccessRequestMixin, gitlab.mixins.ObjectDeleteMixin,
           gitlab.base.RESTObject
```

```
    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**

```
gitlab: gitlab.client.Gitlab
```

```
class gitlab.v4.objects.GroupAuditEvent (manager: gitlab.base.RESTManager, attrs:
                                         Dict[str, Any])
```

```
    Bases: gitlab.base.RESTObject
```

```
    manager: gitlab.base.RESTManager
```

```
class gitlab.v4.objects.GroupAuditEventManager (gl: gitlab.client.Gitlab, parent: Op-
                                                  tional[gitlab.base.RESTObject] =
                                                  None)
```

```
    Bases: gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager
```

**Object listing filters**

- created\_after
- created\_before

**Object Creation**

**Object update**

```
gitlab: gitlab.client.Gitlab
```

```
class gitlab.v4.objects.GroupBadge (manager: gitlab.base.RESTManager, attrs: Dict[str,
                                         Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.
           RESTObject
```

```
    manager: gitlab.base.RESTManager
```

```
class gitlab.v4.objects.GroupBadgeManager (gl: gitlab.client.Gitlab, parent: Op-
                                                  tional[gitlab.base.RESTObject] = None)
    Bases: gitlab.mixins.BadgeRenderMixin, gitlab.mixins.CRUDMixin, gitlab.base.
           RESTManager
```

**Object Creation**

Mandatory attributes:

- link\_url
- image\_url

**Object update**

Optional attributes for object update:

- link\_url

- `image_url`

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupBillableMember (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

```
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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupBillableMemberMembership (manager: gitlab.base.RESTManager,
attrs: Dict[str, Any])
```

Bases: `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupBoard (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.GroupBoardList (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**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**

Mandatory attributes:

- `label_id`

**Object update**

Mandatory attributes for object update:

- `position`

**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**

Mandatory attributes:

- `name`

**Object update**

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupCluster (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
    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**

Mandatory attributes:

- `name`
- `platform_kubernetes_attributes`

Optional attributes:

- `domain`
- `enabled`
- `managed`
- `environment_scope`

**Object update**

Optional attributes for object update:

- `name`
- `domain`
- `management_project_id`
- `platform_kubernetes_attributes`
- `environment_scope`

**create** (*data*, *\*\*kwargs*)

Create a new object.

#### Parameters

- **data** (*dict*) – 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'`)

#### 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 [`RESTObject`](#)

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupCustomAttribute (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: [`gitlab.mixins.ObjectDeleteMixin`](#), [`gitlab.base.RESTObject`](#)

**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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupDeployToken (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: [`gitlab.mixins.ObjectDeleteMixin`](#), [`gitlab.base.RESTObject`](#)

**manager:** [`gitlab.base.RESTManager`](#)

```
class gitlab.v4.objects.GroupDeployTokenManager (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

Mandatory attributes:

- `name`
- `scopes`

Optional attributes:

- `expires_at`
- `username`



**Object update**

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.GroupDescendantGroup` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.base.RESTObject`

**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**

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.GroupEpic` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.mixins.SaveMixin`, `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

**class** `gitlab.v4.objects.GroupEpicIssue` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.mixins.SaveMixin`, `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

**save** (*\*\*kwargs*)

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`)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct

- ***GitlabUpdateError*** – If the server cannot perform the request

```
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

Mandatory attributes:

- `issue_id`

#### Object update

Optional attributes for object update:

- `move_before_id`
- `move_after_id`

**create** (*data*, *\*\*kwargs*)  
Create a new object.

#### Parameters

- **data** (*dict*) – Parameters to send to the server to create the resource
- **\*\*kwargs** – Extra options to send to the server (e.g. `sudo`)

#### 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 *RESTObject*

**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

Mandatory attributes:

- `title`

Optional attributes:

- `labels`

- description
- start\_date
- end\_date

#### Object update

Optional attributes for object update:

- title
- labels
- description
- start\_date
- end\_date

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupEpicResourceLabelEvent (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupExport (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.DownloadMixin`, `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupHook (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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

Mandatory attributes:

- url

Optional attributes:

- push\_events
- issues\_events
- confidential\_issues\_events
- merge\_requests\_events
- tag\_push\_events
- note\_events
- confidential\_note\_events
- job\_events
- pipeline\_events
- wiki\_page\_events
- deployment\_events
- releases\_events
- subgroup\_events
- enable\_ssl\_verification
- token

### Object update

Mandatory attributes for object update:

- url

Optional attributes for object update:

- push\_events
- issues\_events
- confidential\_issues\_events
- merge\_requests\_events
- tag\_push\_events
- note\_events
- confidential\_note\_events
- job\_events
- pipeline\_events
- wiki\_page\_events
- deployment\_events

- releases\_events
- subgroup\_events
- enable\_ssl\_verification
- token

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.GroupImport` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.GroupIssue` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupIssuesStatistics (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.RefreshMixin`, `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupLabel (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.SubscribableMixin`, `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

**save** (*\*\*kwargs*)

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)

#### Raises

- `GitlabAuthenticationError` – If authentication is not correct.
- `GitlabUpdateError` – If the server cannot perform the request.

```
class gitlab.v4.objects.GroupLabelManager (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

Mandatory attributes:

- name
- color

Optional attributes:

- description
- priority

### Object update

Mandatory attributes for object update:

- name

Optional attributes for object update:

- new\_name

- color
- description
- priority

**delete** (*name*, *\*\*kwargs*)  
Delete a Label on the server.

#### Parameters

- **name** – The name of the label
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

#### Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabDeleteError* – If the server cannot perform the request

**gitlab:** `gitlab.client.Gitlab`

**update** (*name*, *new\_data=None*, *\*\*kwargs*)  
Update a Label on the server.

#### Parameters

- **name** – The name of the label
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**class** `gitlab.v4.objects.GroupManager` (*gl:* `gitlab.client.Gitlab`, *parent:* *Optional*[`gitlab.base.RESTObject`] = *None*) *Op-*  
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

Mandatory attributes:

- name
- path

Optional attributes:

- description
- membership\_lock

- visibility
- share\_with\_group\_lock
- require\_two\_factor\_authentication
- two\_factor\_grace\_period
- project\_creation\_level
- auto\_devops\_enabled
- subgroup\_creation\_level
- emails\_disabled
- avatar
- mentions\_disabled
- lfs\_enabled
- request\_access\_enabled
- parent\_id
- default\_branch\_protection
- shared\_runners\_minutes\_limit
- extra\_shared\_runners\_minutes\_limit

### Object update

Optional attributes for object update:

- name
- path
- description
- membership\_lock
- share\_with\_group\_lock
- visibility
- require\_two\_factor\_authentication
- two\_factor\_grace\_period
- project\_creation\_level
- auto\_devops\_enabled
- subgroup\_creation\_level
- emails\_disabled
- avatar
- mentions\_disabled
- lfs\_enabled
- request\_access\_enabled
- default\_branch\_protection
- file\_template\_project\_id



- `shared_runners_minutes_limit`
- `extra_shared_runners_minutes_limit`
- `prevent_forking_outside_group`
- `shared_runners_setting`

**gitlab:** `gitlab.client.Gitlab`

**import\_group** (*file, path, name, parent\_id=None, \*\*kwargs*)  
 Import a group from an archive file.

#### Parameters

- **file** – 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** (*str*) – ID of a parent group that the group will be imported into.
- **\*\*kwargs** – Extra options to send to the server (e.g. `sudo`)

#### 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** dict

**class** `gitlab.v4.objects.GroupMember` (*manager: gitlab.base.RESTManager, attrs: Dict[str, Any]*)  
 Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.GroupMemberManager` (*gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None*)  
 Bases: `gitlab.mixins.MemberAllMixin`, `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

#### Object Creation

Mandatory attributes:

- `access_level`
- `user_id`

Optional attributes:

- `expires_at`

### Object update

Mandatory attributes for object update:

- `access_level`

Optional attributes for object update:

- `expires_at`

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupMergeRequest (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupMilestone (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

```
issues (**kwargs)
    List issues related to this milestone.
```

#### Parameters

- **all** (*bool*) – If True, return all the items, without pagination
- **per\_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as\_list** (*bool*) – 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)

#### Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabListError** – If the list could not be retrieved

**Returns** The list of issues

**Return type** *RESTObjectList*

```
manager: gitlab.base.RESTManager
```

```
merge_requests (**kwargs)
    List the merge requests related to this milestone.
```

#### Parameters

- **all** (*bool*) – If True, return all the items, without pagination
- **per\_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as\_list** (*bool*) – 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)

#### Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabListError** – If the list could not be retrieved

**Returns** The list of merge requests

**Return type** *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

Mandatory attributes:

- title

Optional attributes:

- description
- due\_date
- start\_date

### Object update

Optional attributes for object update:

- title
- description
- due\_date
- start\_date
- state\_event

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupNotificationSettings (manager: gitlab.base.RESTManager, git-  
lab.base.RESTManager, attrs:  
Dict[str, Any])
```

Bases: `gitlab.v4.objects.notification_settings.NotificationSettings`

**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

Optional attributes for object update:

- level
- notification\_email
- new\_note
- new\_issue
- reopen\_issue
- close\_issue
- reassign\_issue
- new\_merge\_request
- reopen\_merge\_request
- close\_merge\_request

- `reassign_merge_request`
- `merge_merge_request`

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.GroupPackage` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.GroupProject` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.GroupRunner` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

**class** `gitlab.v4.objects.GroupRunnerManager` (*gl:* `gitlab.client.Gitlab`, *parent:* `Optional[gitlab.base.RESTObject] = None`)

Bases: `gitlab.mixins.NoUpdateMixin`, `gitlab.base.RESTManager`

#### Object listing filters

- scope
- tag\_list

### Object Creation

Mandatory attributes:

- runner\_id

#### Object update

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.GroupSubgroup` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.base.RESTObject`

**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**

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupVariable (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**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**

Mandatory attributes:

- key
- value

Optional attributes:

- protected
- variable\_type
- masked

**Object update**

Mandatory attributes for object update:

- key
- value

Optional attributes for object update:

- protected
- variable\_type
- masked

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.GroupWiki (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**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**

Mandatory attributes:

- title
- content

Optional attributes:

- format

### Object update

Optional attributes for object update:

- title
- content
- format

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.Hook` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)  
Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

**class** `gitlab.v4.objects.HookManager` (*gl:* `gitlab.client.Gitlab`, *parent:* `Optional[gitlab.base.RESTObject] = None`) *Op-*  
Bases: `gitlab.mixins.NoUpdateMixin`, `gitlab.base.RESTManager`

### Object Creation

Mandatory attributes:

- url

### Object update

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.Issue` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)  
Bases: `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

**class** `gitlab.v4.objects.IssueManager` (*gl:* `gitlab.client.Gitlab`, *parent:* `Optional[gitlab.base.RESTObject] = None`) *Op-*  
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**

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.IssuesStatistics(manager: gitlab.base.RESTManager, attrs:
                                         Dict[str, Any])
    Bases: gitlab.mixins.RefreshMixin, gitlab.base.RESTObject
    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**

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.Key(manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.base.RESTObject
    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**

**get** (*id=None*, *\*\*kwargs*)  
Retrieve a single object.

**Parameters**

- **id** (*int* or *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`)

**Returns** The generated `RESTObject`.

**Return type** object

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.LDAPGroup (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.base.RESTObject

    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**

```
gitlab: gitlab.client.Gitlab
```

```
list (**kwargs)
    Retrieve a list of objects.
```

**Parameters**

- **all** (*bool*) – If True, return all the items, without pagination
- **per\_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as\_list** (*bool*) – 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)

**Returns** The list of objects, or a generator if *as\_list* is False

**Return type** list

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabListError* – If the server cannot perform the request

```
class gitlab.v4.objects.License (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.base.RESTObject

    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**

```
gitlab: gitlab.client.Gitlab
```

```
class gitlab.v4.objects.MergeRequest (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.base.RESTObject
```

**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

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.Namespace` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)  
Bases: `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.NotificationSettings` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)  
Bases: `gitlab.mixins.SaveMixin`, `gitlab.base.RESTObject`

**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

Optional attributes for object update:

- `level`
- `notification_email`
- `new_note`
- `new_issue`
- `reopen_issue`
- `close_issue`
- `reassign_issue`
- `new_merge_request`
- `reopen_merge_request`
- `close_merge_request`
- `reassign_merge_request`
- `merge_merge_request`

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.PagesDomain` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)  
Bases: `gitlab.base.RESTObject`

**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**

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.PersonalAccessToken (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.PersonalAccessTokenManager (gl: gitlab.client.Gitlab,
    parent: Optional[gitlab.base.RESTObject] = None)
    Bases: gitlab.mixins.ListMixin, gitlab.base.RESTManager
```

**Object listing filters**

- `user_id`

**Object Creation**

**Object update**

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.Project (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.RefreshMixin, gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.v4.objects.repositories.RepositoryMixin, gitlab.base.RESTObject
```

**archive** (*\*\*kwargs: Any*) → None  
Archive a project.

**Parameters** *\*\*kwargs* – Extra options to send to the server (e.g. `sudo`)

**Raises**

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabCreateError`** – If the server failed to perform the request

**artifact** (*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`** (*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)

**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** str

**artifacts** (*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
- **not supported.** (*are*) –
- **artifact\_path** (*str*) – Path to a file inside the artifacts archive.
- **job** (*str*) – The name of the job.
- **job\_token** (*str*) – 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** (*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)

**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** str

**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)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabCreateError`](#) – If the relation could not be created

**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)

**Raises**

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabDeleteError`** – If the server failed to perform the request

**housekeeping** (*\*\*kwargs: Any*) → None

Start the housekeeping task.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabHousekeepingError`** – If the server failed to perform the request

**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)

**Raises**

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabGetError`** – If the server failed to perform the request

**manager:** `gitlab.base.RESTManager`

**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)

**Raises**

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabCreateError`** – If the server failed to perform the request

**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)

**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** `GitlabList`

**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)

**Raises**

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabCreateError`** – If the server failed to perform the request

**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** (*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)

**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** str

**star** (*\*\*kwargs: Any*) → None

Star a project.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabCreateError`** – If the server failed to perform the request

**transfer\_project** (*to\_namespace: str, \*\*kwargs: Any*) → None

Transfer a project to the given namespace ID

**Parameters**

- **to\_namespace** (*str*) – ID or path of the namespace to transfer the
- **to** (*project*) –
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- **`GitlabAuthenticationError`** – If authentication is not correct
- **`GitlabTransferProjectError`** – If the project could not be transferred

**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** (*dict*) – Variables passed to the build script
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabCreateError** – If the server failed to perform the request

**unarchive** (*\*\*kwargs: Any*) → None

Unarchive a project.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabDeleteError** – If the server failed to perform the request

**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)

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabDeleteError** – If the server failed to perform the request

**unstar** (*\*\*kwargs: Any*) → None

Unstar a project.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabDeleteError** – If the server failed to perform the request

**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** (*bytes*) – The raw data of the file being uploaded
- **filepath** (*str*) – The path to a local file to upload (optional)

**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

A dict with the keys:

- `alt` - The alternate text for the upload
- `url` - The direct url to the uploaded file
- `markdown` - Markdown for the uploaded file

Return type dict

```
class gitlab.v4.objects.ProjectAccessRequest (manager: gitlab.base.RESTManager, attrs:
                                             Dict[str, Any])
    Bases: gitlab.mixins.AccessRequestMixin, gitlab.mixins.ObjectDeleteMixin,
           gitlab.base.RESTObject
    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

`gitlab:` `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectAdditionalStatistics (manager: gitlab.base.RESTManager, attrs:
                                                         Dict[str, Any])
    Bases: gitlab.mixins.RefreshMixin, gitlab.base.RESTObject
    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

`gitlab:` `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectApproval (manager: gitlab.base.RESTManager, attrs:
                                              Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.base.RESTObject
    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

Optional attributes for object update:

- `approvals_before_merge`
- `reset_approvals_on_push`
- `disable_overriding_approvers_per_merge_request`
- `merge_requests_author_approval`
- `merge_requests_disable_committers_approval`

**gitlab:** *gitlab.client.Gitlab*

**set\_approvers** (*approver\_ids=None*, *approver\_group\_ids=None*, *\*\*kwargs*)

Change project-level allowed approvers and approver groups.

### Parameters

- **approver\_ids** (*list*) – User IDs that can approve MRs
- **approver\_group\_ids** (*list*) – Group IDs whose members can approve MRs

### Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabUpdateError* – If the server failed to perform the request

```
class gitlab.v4.objects.ProjectApprovalRule (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: *gitlab.mixins.SaveMixin*, *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject*

**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

Mandatory attributes:

- `name`
- `approvals_required`

Optional attributes:

- `user_ids`
- `group_ids`
- `protected_branch_ids`

**Object update****gitlab:** `gitlab.client.Gitlab`**class** `gitlab.v4.objects.ProjectAudit` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)Bases: `gitlab.v4.objects.audit_events.ProjectAuditEvent`**manager:** `gitlab.base.RESTManager`**class** `gitlab.v4.objects.ProjectAuditEvent` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)Bases: `gitlab.base.RESTObject`**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****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****gitlab:** `gitlab.client.Gitlab`**class** `gitlab.v4.objects.ProjectBadge` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`**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**

Mandatory attributes:

- `link_url`
- `image_url`

**Object update**

Optional attributes for object update:

- `link_url`
- `image_url`

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectBoard(manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectBoardList(manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**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**

Mandatory attributes:

- `label_id`

**Object update**

Mandatory attributes for object update:

- `position`

**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**

Mandatory attributes:

- `name`

**Object update**

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectBranch(manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
manager: gitlab.base.RESTManager
```

```
protect (developers_can_push=False, developers_can_merge=False, **kwargs)
    Protect the branch.
```

**Parameters**

- **developers\_can\_push** (*bool*) – Set to True if developers are allowed to push to the branch
- **developers\_can\_merge** (*bool*) – Set to True if developers are allowed to merge to the branch
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabProtectError** – If the branch could not be protected

**unprotect** (*\*\*kwargs*)

Unprotect the branch.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabProtectError** – If the branch could not be unprotected

```
class gitlab.v4.objects.ProjectBranchManager (gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
    Bases: gitlab.mixins.NoUpdateMixin, gitlab.base.RESTManager
```

**Object Creation**

Mandatory attributes:

- branch
- ref

**Object update****gitlab:** **gitlab.client.Gitlab**

```
class gitlab.v4.objects.ProjectCluster (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**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**

Mandatory attributes:

- name
- platform\_kubernetes\_attributes

Optional attributes:

- domain
- enabled
- managed
- environment\_scope

## Object update

Optional attributes for object update:

- `name`
- `domain`
- `management_project_id`
- `platform_kubernetes_attributes`
- `environment_scope`

**create** (*data*, *\*\*kwargs*)

Create a new object.

### Parameters

- **data** (*dict*) – 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'`)

### 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 [\*RESTObject\*](#)

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.ProjectCommit` (*manager:* [`gitlab.base.RESTManager`](#), *attrs:* `Dict[str, Any]`)

Bases: [`gitlab.base.RESTObject`](#)

**cherry\_pick** (*branch*, *\*\*kwargs*)

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`)

### Raises

- [\*GitlabAuthenticationError\*](#) – If authentication is not correct
- [\*GitlabCherryPickError\*](#) – If the cherry-pick could not be performed

**diff** (*\*\*kwargs*)

Generate the commit diff.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. `sudo`)

### Raises

- [\*GitlabAuthenticationError\*](#) – If authentication is not correct
- [\*GitlabGetError\*](#) – If the diff could not be retrieved

**Returns** The changes done in this commit

**Return type** list

**manager:** `gitlab.base.RESTManager`

**merge\_requests** (*\*\*kwargs*)

List the merge requests related to the commit.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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** list

**refs** (*type='all', \*\*kwargs*)

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)

**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** list

**revert** (*branch, \*\*kwargs*)

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)

**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** dict

**signature** (*\*\*kwargs*)

Get the signature of the commit.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the signature could not be retrieved

**Returns** The commit's signature data



Return type dict

```
class gitlab.v4.objects.ProjectCommitComment (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: *gitlab.base.RESTObject*

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

Mandatory attributes:

- note

Optional attributes:

- path
- line
- line\_type

### Object update

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectCommitDiscussion (manager: gitlab.base.RESTManager,
attrs: Dict[str, Any])
```

Bases: *gitlab.base.RESTObject*

manager: *gitlab.base.RESTManager*

```
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

Mandatory attributes:

- body

Optional attributes:

- created\_at

### Object update

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectCommitDiscussionNote (manager: gitlab.base.RESTManager,
attrs: Dict[str, Any])
```

Bases: *gitlab.mixins.SaveMixin*, *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectCommitDiscussionNoteManager (gl:          git-  
                                lab.client.Gitlab,  
                                parent:      Op-  
                                tional[gitlab.base.RESTObject]  
                                = None)
```

Bases: `gitlab.mixins.GetMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

#### Object Creation

Mandatory attributes:

- `body`

Optional attributes:

- `created_at`
- `position`

#### Object update

Mandatory attributes for object update:

- `body`

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectCommitManager (gl:  gitlab.client.Gitlab, parent:  Op-  
                                                tional[gitlab.base.RESTObject] = None)  
Bases:  gitlab.mixins.RetrieveMixin, gitlab.mixins.CreateMixin, gitlab.base.  
RESTManager
```

#### Object Creation

Mandatory attributes:

- `branch`
- `commit_message`
- `actions`

Optional attributes:

- `author_email`
- `author_name`

#### Object update

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectCommitStatus (manager: gitlab.base.RESTManager, attrs:  
                                                Dict[str, Any])
```

Bases: `gitlab.mixins.RefreshMixin`, `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectCommitStatusManager (gl:          gitlab.client.Gitlab,  
                                parent:      Op-  
                                tional[gitlab.base.RESTObject] =  
                                None)
```

Bases: `gitlab.mixins.ListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.base.RESTManager`

#### Object Creation

Mandatory attributes:

- state

Optional attributes:

- description
- name
- context
- ref
- target\_url
- coverage

### Object update

**create** (*data*, *\*\*kwargs*)

Create a new object.

#### Parameters

- **data** (*dict*) – 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'`)

#### 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 [\*RESTObject\*](#)

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectCustomAttribute (manager: gitlab.base.RESTManager,
                                                attrs: Dict[str, Any])
```

Bases: [\*gitlab.mixins.ObjectDeleteMixin\*](#), [\*gitlab.base.RESTObject\*](#)

**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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectDeployToken (manager: gitlab.base.RESTManager,
                                              attrs: Dict[str, Any])
```

Bases: [\*gitlab.mixins.ObjectDeleteMixin\*](#), [\*gitlab.base.RESTObject\*](#)

**manager:** [\*gitlab.base.RESTManager\*](#)

```
class gitlab.v4.objects.ProjectDeployTokenManager (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

Mandatory attributes:

- name
- scopes

Optional attributes:

- expires\_at
- username

#### Object update

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectDeployment (manager:  gitlab.base.RESTManager, attrs:
                                                    Dict[str, Any])
```

Bases: *gitlab.mixins.SaveMixin, gitlab.base.RESTObject*

**manager:** *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectDeploymentManager (gl:  gitlab.client.Gitlab, parent: Op-
                                                    tional[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

Mandatory attributes:

- sha
- ref
- tag
- status
- environment

#### Object update

**gitlab:** *gitlab.client.Gitlab*

```

class gitlab.v4.objects.ProjectDeploymentMergeRequest (manager: git-
                                                         lab.base.RESTManager,
                                                         attrs: Dict[str, Any])
    Bases: gitlab.v4.objects.merge_requests.MergeRequest
    manager: gitlab.base.RESTManager

class gitlab.v4.objects.ProjectDeploymentMergeRequestManager (gl: git-
                                                         lab.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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectEnvironment (manager: gitlab.base.RESTManager, attrs:
                                         Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**manager:** `gitlab.base.RESTManager`

**stop** (*\*\*kwargs*)

Stop the environment.

**Parameters** *\*\*kwargs* – Extra options to send to the server (e.g. sudo)

### Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabStopError` – If the operation failed

```
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 Creation

Mandatory attributes:

- name

Optional attributes:

- external\_url

### Object update

Optional attributes for object update:

- name
- external\_url

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectEvent (manager: gitlab.base.RESTManager, attrs: Dict[str,
                                                                                   Any])
```

Bases: `gitlab.v4.objects.events.Event`

**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**

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectExport (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.DownloadMixin, gitlab.mixins.RefreshMixin, gitlab.base.RESTObject
```

**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**

Optional attributes:

- `description`

**Object update**

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectFile (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**decode** () → bytes

Returns the decoded content of the file.

**Returns** the decoded content.

**Return type** (bytes)

**delete** (*branch, commit\_message, \*\*kwargs*)

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)

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabDeleteError** – If the server cannot perform the request

**manager:** `gitlab.base.RESTManager`

**save** (*branch*, *commit\_message*, *\*\*kwargs*)

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)

#### Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabUpdateError** – If the server cannot perform the request

```
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

Mandatory attributes:

- *file\_path*
- *branch*
- *content*
- *commit\_message*

Optional attributes:

- *encoding*
- *author\_email*
- *author\_name*

#### Object update

Mandatory attributes for object update:

- *file\_path*
- *branch*
- *content*
- *commit\_message*

Optional attributes for object update:

- *encoding*
- *author\_email*
- *author\_name*

**blame** (*file\_path*, *ref*, *\*\*kwargs*)

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)

**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(blame)

**create** (*data*, *\*\*kwargs*)

Create a new object.

**Parameters**

- **data** (*dict*) – parameters to send to the server to create the resource
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Returns**

a new instance of the managed object class built with the data sent by the server

**Return type** *RESTObject*

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabCreateError* – If the server cannot perform the request

**delete** (*file\_path*, *branch*, *commit\_message*, *\*\*kwargs*)

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)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabDeleteError* – If the server cannot perform the request

**get** (*file\_path*, *ref*, *\*\*kwargs*)

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)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the file could not be retrieved

**Returns** The generated RESTObject

**Return type** object

**gitlab:** `gitlab.client.Gitlab`

**raw** (*file\_path*, *ref*, *streamed=False*, *action=None*, *chunk\_size=1024*, *\*\*kwargs*)

Return the content of a file for a commit.

**Parameters**

- **ref** (*str*) – ID of the commit
- **filepath** (*str*) – 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** (*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)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the file could not be retrieved

**Returns** The file content

**Return type** str

**update** (*file\_path*, *new\_data=None*, *\*\*kwargs*)

Update an object on the server.

**Parameters**

- **id** – ID of the object to update (can be None if not required)
- **new\_data** – the update data for the object
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Returns** The new object data (*not* a RESTObject)

**Return type** dict

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabUpdateError` – If the server cannot perform the request

**class** `gitlab.v4.objects.ProjectFork` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.base.RESTObject`

**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

Optional attributes:

- namespace

### Object update

**create** (*data*: *Optional[Dict[str, Any]]* = *None*, *\*\*kwargs*: *Any*) → *gitlab.v4.objects.projects.ProjectFork*  
Creates a new object.

#### Parameters

- **data** (*dict*) – Parameters to send to the server to create the resource
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

#### 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 *RESTObject*

**gitlab:** *gitlab.client.Gitlab*

**class** *gitlab.v4.objects.ProjectHook* (*manager*: *gitlab.base.RESTManager*, *attrs*: *Dict[str, Any]*)  
Bases: *gitlab.mixins.SaveMixin*, *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject*

**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

Mandatory attributes:

- url

Optional attributes:

- push\_events
- issues\_events
- confidential\_issues\_events
- merge\_requests\_events
- tag\_push\_events
- note\_events
- job\_events
- pipeline\_events
- wiki\_page\_events
- enable\_ssl\_verification
- token

### Object update

Mandatory attributes for object update:

- url

Optional attributes for object update:

- push\_events
- issues\_events
- confidential\_issues\_events
- merge\_requests\_events
- tag\_push\_events
- note\_events
- job\_events
- pipeline\_events
- wiki\_events
- enable\_ssl\_verification
- token

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.ProjectImport` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.mixins.RefreshMixin`, `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.ProjectIssue` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

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`

**closed\_by** (*\*\*kwargs*)

List merge requests that will close the issue when merged.

**Parameters** *\*\*kwargs* – Extra options to send to the server (e.g. `sudo`)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the merge requests could not be retrieved

**Returns** The list of merge requests.

**Return type** list

**manager:** `gitlab.base.RESTManager`

**move** (*to\_project\_id*, *\*\*kwargs*)

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`)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabUpdateError` – If the issue could not be moved

**related\_merge\_requests** (*\*\*kwargs*)

List merge requests related to the issue.

**Parameters** *\*\*kwargs* – Extra options to send to the server (e.g. `sudo`)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the merge requests could not be retrieved

**Returns** The list of merge requests.

**Return type** list

**class** `gitlab.v4.objects.ProjectIssueAwardEmoji` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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

Mandatory attributes:

- name

### Object update

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectIssueDiscussion (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

```
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

Mandatory attributes:

- body

Optional attributes:

- created\_at

### Object update

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectIssueDiscussionNote (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])  
  
Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**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

Mandatory attributes:

- body

Optional attributes:

- created\_at

### Object update

Mandatory attributes for object update:

- body

```

gitlab: gitlab.client.Gitlab

class gitlab.v4.objects.ProjectIssueLink(manager: gitlab.base.RESTManager, attrs:
                                         Dict[str, Any])
    Bases: gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
    manager: gitlab.base.RESTManager

class gitlab.v4.objects.ProjectIssueLinkManager(gl: gitlab.client.Gitlab, parent: Op-
                                                tional[gitlab.base.RESTObject] =
                                                None)
    Bases: gitlab.mixins.ListMixin, gitlab.mixins.CreateMixin, gitlab.mixins.
    DeleteMixin, gitlab.base.RESTManager

```

### Object Creation

Mandatory attributes:

- `target_project_id`
- `target_issue_iid`

### Object update

**create** (*data*, *\*\*kwargs*)  
Create a new object.

#### Parameters

- **data** (*dict*) – parameters to send to the server to create the resource
- **\*\*kwargs** – Extra options to send to the server (e.g. `sudo`)

**Returns** The source and target issues

**Return type** *RESTObject*, *RESTObject*

#### Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabCreateError* – If the server cannot perform the request

```

gitlab: gitlab.client.Gitlab

class gitlab.v4.objects.ProjectIssueManager(gl: gitlab.client.Gitlab, parent: Op-
                                                tional[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

Mandatory attributes:

- title

Optional attributes:

- description
- confidential
- assignee\_ids
- assignee\_id
- milestone\_id
- labels
- created\_at
- due\_date
- merge\_request\_to\_resolve\_discussions\_of
- discussion\_to\_resolve

### Object update

Optional attributes for object update:

- title
- description
- confidential
- assignee\_ids
- assignee\_id
- milestone\_id
- labels
- state\_event
- updated\_at
- due\_date
- discussion\_locked

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectIssueNote (manager: gitlab.base.RESTManager, attrs:
                                         Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```



**manager:** *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectIssueNoteAwardEmoji (manager: git-  

lab.base.RESTManager, attrs:  

Dict[str, Any])
```

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

**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

Mandatory attributes:

- name

### Object update

**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

Mandatory attributes:

- body

Optional attributes:

- created\_at

### Object update

Mandatory attributes for object update:

- body

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectIssueResourceLabelEvent (manager: git-  

lab.base.RESTManager,  

attrs: Dict[str, Any])
```

Bases: *gitlab.base.RESTObject*

**manager:** *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectIssueResourceLabelEventManager (gl: git-  

lab.client.Gitlab,  

parent: Optional[gitlab.base.RESTObject]  

= None)
```

Bases: *gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager*

### Object Creation

### Object update

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectIssueResourceMilestoneEvent (manager: gitlab.base.RESTManager,
                                                                attrs: Dict[str, Any])
```

Bases: *gitlab.base.RESTObject*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectIssueResourceMilestoneEventManager (gl: gitlab.client.Gitlab,
                                                                    parent: Optional[gitlab.base.RESTObject]
                                                                    = None)
```

Bases: *gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager*

**Object Creation**

**Object update**

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectIssueResourceStateEvent (manager: gitlab.base.RESTManager,
                                                           attrs: Dict[str, Any])
```

Bases: *gitlab.base.RESTObject*

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**

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectIssuesStatistics (manager: gitlab.base.RESTManager,
                                                    attrs: Dict[str, Any])
```

Bases: *gitlab.mixins.RefreshMixin, gitlab.base.RESTObject*

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**

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectJob (manager: gitlab.base.RESTManager, attrs: Dict[str,
                                                                                      Any])
```

Bases: *gitlab.mixins.RefreshMixin, gitlab.base.RESTObject*

**artifact** (*path, streamed=False, action=None, chunk\_size=1024, \*\*kwargs*)

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** (*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)

**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** str

**artifacts** (*streamed=False, action=None, chunk\_size=1024, \*\*kwargs*)

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** (*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)

**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** str

**cancel** (*\*\*kwargs*)

Cancel the job.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabJobCancelError** – If the job could not be canceled

**delete\_artifacts** (*\*\*kwargs*)

Delete artifacts of a job.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabDeleteError** – If the request could not be performed

**erase** (*\*\*kwargs*)

Erase the job (remove job artifacts and trace).

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabJobEraseError`](#) – If the job could not be erased

**keep\_artifacts** (**\*\*kwargs**)

Prevent artifacts from being deleted when expiration is set.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabCreateError`](#) – If the request could not be performed

**manager:** [`gitlab.base.RESTManager`](#)

**play** (**\*\*kwargs**)

Trigger a job explicitly.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabJobPlayError`](#) – If the job could not be triggered

**retry** (**\*\*kwargs**)

Retry the job.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabJobRetryError`](#) – If the job could not be retried

**trace** (*streamed=False*, *action=None*, *chunk\_size=1024*, **\*\*kwargs**)

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** (*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)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the artifacts could not be retrieved

**Returns** The trace

**Return type** str

```
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

```
gitlab: gitlab.client.Gitlab
```

```
class gitlab.v4.objects.ProjectKey (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

```
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

Mandatory attributes:

- title
- key

Optional attributes:

- can\_push

#### Object update

Optional attributes for object update:

- title
- can\_push

```
enable (key_id, **kwargs)
```

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)

#### Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabProjectDeployKeyError* – If the key could not be enabled

```
gitlab: gitlab.client.Gitlab
```

```
class gitlab.v4.objects.ProjectLabel (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SubscribableMixin, gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

```
manager: gitlab.base.RESTManager
```

```
save (**kwargs)
```

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)

**Raises**

- *[GitlabAuthenticationError](#)* – If authentication is not correct.
- *[GitlabUpdateError](#)* – If the server cannot perform the request.

```
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**

Mandatory attributes:

- name
- color

Optional attributes:

- description
- priority

**Object update**

Mandatory attributes for object update:

- name

Optional attributes for object update:

- new\_name
- color
- description
- priority

```
delete (name, **kwargs)  
Delete a Label on the server.
```

**Parameters**

- **name** – The name of the label
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- *[GitlabAuthenticationError](#)* – If authentication is not correct
- *[GitlabDeleteError](#)* – If the server cannot perform the request

```
gitlab: gitlab.client.Gitlab
```

```
update (name, new_data=None, **kwargs)  
Update a Label on the server.
```

**Parameters**

- **name** – The name of the label
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

```
class gitlab.v4.objects.ProjectManager (gl:      gitlab.client.Gitlab,    parent:      Op-
                                     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

Optional attributes:

- name
- path
- allow\_merge\_on\_skipped\_pipeline
- analytics\_access\_level
- approvals\_before\_merge
- auto\_cancel\_pending\_pipelines
- auto\_devops\_deploy\_strategy

- `auto_devops_enabled`
- `autoclose_referenced_issues`
- `avatar`
- `build_coverage_regex`
- `build_git_strategy`
- `build_timeout`
- `builds_access_level`
- `ci_config_path`
- `container_expiration_policy_attributes`
- `container_registry_enabled`
- `default_branch`
- `description`
- `emails_disabled`
- `external_authorization_classification_label`
- `forking_access_level`
- `group_with_project_templates_id`
- `import_url`
- `initialize_with_readme`
- `issues_access_level`
- `issues_enabled`
- `jobs_enabled`
- `lfs_enabled`
- `merge_method`
- `merge_requests_access_level`
- `merge_requests_enabled`
- `mirror_trigger_builds`
- `mirror`
- `namespace_id`
- `operations_access_level`
- `only_allow_merge_if_all_discussions_are_resolved`
- `only_allow_merge_if_pipeline_succeeds`
- `packages_enabled`
- `pages_access_level`
- `requirements_access_level`
- `printing_merge_request_link_enabled`
- `public_builds`



- `remove_source_branch_after_merge`
- `repository_access_level`
- `repository_storage`
- `request_access_enabled`
- `resolve_outdated_diff_discussions`
- `shared_runners_enabled`
- `show_default_award_emojis`
- `snippets_access_level`
- `snippets_enabled`
- `tag_list`
- `template_name`
- `template_project_id`
- `use_custom_template`
- `visibility`
- `wiki_access_level`
- `wiki_enabled`

### Object update

Optional attributes for object update:

- `allow_merge_on_skipped_pipeline`
- `analytics_access_level`
- `approvals_before_merge`
- `auto_cancel_pending_pipelines`
- `auto_devops_deploy_strategy`
- `auto_devops_enabled`
- `autoclose_referenced_issues`
- `avatar`
- `build_coverage_regex`
- `build_git_strategy`
- `build_timeout`
- `builds_access_level`
- `ci_config_path`
- `ci_default_git_depth`
- `ci_forward_deployment_enabled`
- `container_expiration_policy_attributes`
- `container_registry_enabled`
- `default_branch`

- description
- emails\_disabled
- external\_authorization\_classification\_label
- forking\_access\_level
- import\_url
- issues\_access\_level
- issues\_enabled
- jobs\_enabled
- lfs\_enabled
- merge\_method
- merge\_requests\_access\_level
- merge\_requests\_enabled
- mirror\_overwrites\_diverged\_branches
- mirror\_trigger\_builds
- mirror\_user\_id
- mirror
- name
- operations\_access\_level
- only\_allow\_merge\_if\_all\_discussions\_are\_resolved
- only\_allow\_merge\_if\_pipeline\_succeeds
- only\_mirror\_protected\_branches
- packages\_enabled
- pages\_access\_level
- requirements\_access\_level
- restrict\_user\_defined\_variables
- path
- public\_builds
- remove\_source\_branch\_after\_merge
- repository\_access\_level
- repository\_storage
- request\_access\_enabled
- resolve\_outdated\_diff\_discussions
- service\_desk\_enabled
- shared\_runners\_enabled
- show\_default\_award\_emojis
- snippets\_access\_level

- `snippets_enabled`
- `suggestion_commit_message`
- `tag_list`
- `visibility`
- `wiki_access_level`
- `wiki_enabled`
- `issues_template`
- `merge_requests_template`

**get** (*id*: Union[str, int], *lazy*: bool = False, *\*\*kwargs*: Any) → gitlab.v4.objects.projects.Project  
Retrieve a single object.

#### Parameters

- **id** (*int* or *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)

**Returns** The generated RESTObject.

**Return type** object

#### Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the server cannot perform the request

**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** (*str*) – New repository name (Optional)
- **target\_namespace** (*str*) – Namespace to import repository into. Supports subgroups like /namespace/subgroup (Optional)
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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** dict

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** (*str*) – New repo name (Optional)
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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** dict

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(result['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** – Data or file object containing the project
- **path** (*str*) – Name and path for the new project
- **namespace** (*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** (*dict*) – Set the specific settings for the project
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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** dict

```
class gitlab.v4.objects.ProjectMember (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectMemberManager (gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
Bases: gitlab.mixins.MemberAllMixin, gitlab.mixins.CRUDMixin, gitlab.base.RESTManager
```

### Object Creation

Mandatory attributes:

- `access_level`
- `user_id`

Optional attributes:

- `expires_at`

### Object update

Mandatory attributes for object update:

- `access_level`

Optional attributes for object update:

- `expires_at`

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectMergeRequest (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
Bases: gitlab.mixins.SubscribableMixin, gitlab.mixins.TODOMixin, gitlab.mixins.TimeTrackingMixin, gitlab.mixins.ParticipantsMixin, gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**approve** (*sha=None, \*\*kwargs*)

Approve the merge request.

#### Parameters

- **sha** (*str*) – Head SHA of MR
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

#### Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabMRApprovalError*** – If the approval failed

**cancel\_merge\_when\_pipeline\_succeeds** (*\*\*kwargs*)

Cancel merge when the pipeline succeeds.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

#### Raises

- ***GitlabAuthenticationError*** – If authentication is not correct
- ***GitlabMROnBuildSuccessError*** – If the server could not handle the request

**changes** (*\*\*kwargs*)

List the merge request changes.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabListError`](#) – If the list could not be retrieved

**Returns** List of changes

**Return type** [`RESTObjectList`](#)

**closes\_issues** (**\*\*kwargs**)

List issues that will close on merge.”

**Parameters**

- **all** (*bool*) – If True, return all the items, without pagination
- **per\_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as\_list** (*bool*) – 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)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabListError`](#) – If the list could not be retrieved

**Returns** List of issues

**Return type** [`RESTObjectList`](#)

**commits** (**\*\*kwargs**)

List the merge request commits.

**Parameters**

- **all** (*bool*) – If True, return all the items, without pagination
- **per\_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as\_list** (*bool*) – 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)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabListError`](#) – If the list could not be retrieved

**Returns** The list of commits

**Return type** [`RESTObjectList`](#)

**manager:** [`gitlab.base.RESTManager`](#)

**merge** (*merge\_commit\_message=None*,  
*merge\_when\_pipeline\_succeeds=False*, **\*\*kwargs**)  
 Accept the merge request.

*should\_remove\_source\_branch=False*,

**Parameters**

- **merge\_commit\_message** (*bool*) – Commit message
- **should\_remove\_source\_branch** (*bool*) – If True, removes the source branch
- **merge\_when\_pipeline\_succeeds** (*bool*) – Wait for the build to succeed, then merge
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabMRClosedError** – If the merge failed

**rebase** (*\*\*kwargs*)

Attempt to rebase the source branch onto the target branch

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabMRRebaseError** – If rebasing failed

**unapprove** (*\*\*kwargs*)

Unapprove the merge request.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabMRApprovalError** – If the unapproval failed

```
class gitlab.v4.objects.ProjectMergeRequestApproval (manager:          git-
                                                    lab.base.RESTManager,  attrs:
                                                    Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.base.RESTObject
    manager: gitlab.base.RESTManager

class gitlab.v4.objects.ProjectMergeRequestApprovalManager (gl:          git-
                                                            lab.client.Gitlab,
                                                            parent:          Op-
                                                            tional[gitlab.base.RESTObject]
                                                            = None)
    Bases: gitlab.mixins.GetWithoutIdMixin, gitlab.mixins.UpdateMixin, gitlab.
    base.RESTManager
```

**Object Creation****Object update**

Mandatory attributes for object update:

- **approvals\_required**

**gitlab:** **gitlab.client.Gitlab****set\_approvers** (*approvals\_required*, *approver\_ids=None*, *approver\_group\_ids=None*, *approval\_rule\_name='name'*, *\*\*kwargs*)

Change MR-level allowed approvers and approver groups.



**Parameters**

- **approvals\_required** (*integer*) – The number of required approvals for this rule
- **approver\_ids** (*list of integers*) – User IDs that can approve MRs
- **approver\_group\_ids** (*list*) – Group IDs whose members can approve MRs

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabUpdateError** – If the server failed to perform the request

```
class gitlab.v4.objects.ProjectMergeRequestApprovalRule (manager: gitlab.base.RESTManager,
                                                         attrs: Dict[str, Any])
```

Bases: *gitlab.mixins.SaveMixin, gitlab.base.RESTObject*

**manager:** *gitlab.base.RESTManager*

**save** (*\*\*kwargs*)

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)

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabUpdateError** – If the server cannot perform the request

```
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.base.RESTManager*

**Object listing filters**

- name
- rule\_type

**Object Creation**

Mandatory attributes:

- id
- merge\_request\_iid
- name
- approvals\_required

Optional attributes:

- approval\_project\_rule\_id
- user\_ids
- group\_ids

### Object update

Mandatory attributes for object update:

- `id`
- `merge_request_iid`
- `approval_rule_id`
- `name`
- `approvals_required`

Optional attributes for object update:

- `user_ids`
- `group_ids`

**create** (*data*, *\*\*kwargs*)

Create a new object.

#### Parameters

- **data** (*dict*) – 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'`)

#### 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 [`RESTObject`](#)

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectMergeRequestAwardEmoji (manager: gitlab.base.RESTManager,
                                                            attrs: Dict[str, Any])
```

Bases: [`gitlab.mixins.ObjectDeleteMixin`](#), [`gitlab.base.RESTObject`](#)

**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

Mandatory attributes:

- `name`

### Object update

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectMergeRequestDiff (manager: gitlab.base.RESTManager,
                                              attrs: Dict[str, Any])
```

Bases: *gitlab.base.RESTObject*

**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**

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMergeRequestDiscussion (manager: gitlab.base.RESTManager,
                                                         attrs: Dict[str, Any])
```

Bases: *gitlab.mixins.SaveMixin, gitlab.base.RESTObject*

**manager:** *gitlab.base.RESTManager*

```
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**

Mandatory attributes:

- body

Optional attributes:

- created\_at
- position

**Object update**

Mandatory attributes for object update:

- resolved

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMergeRequestDiscussionNote (manager: gitlab.base.RESTManager,
                                                         attrs: Dict[str, Any])
```

Bases: *gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

**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

Mandatory attributes:

- `body`

Optional attributes:

- `created_at`

### Object update

Mandatory attributes for object update:

- `body`

**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

Mandatory attributes:

- `source_branch`
- `target_branch`
- `title`

Optional attributes:

- `assignee_id`
- `description`
- `target_project_id`
- `labels`
- `milestone_id`
- `remove_source_branch`
- `allow_maintainer_to_push`
- `squash`
- `reviewer_ids`

### Object update

Optional attributes for object update:

- `target_branch`
- `assignee_id`
- `title`
- `description`
- `state_event`
- `labels`
- `milestone_id`
- `remove_source_branch`
- `discussion_locked`
- `allow_maintainer_to_push`
- `squash`
- `reviewer_ids`

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectMergeRequestNote (manager: gitlab.base.RESTManager,  
                                                attrs: Dict[str, Any])  
  
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject  
  
    manager: gitlab.base.RESTManager
```

```
class gitlab.v4.objects.ProjectMergeRequestNoteAwardEmoji (manager:      git-
                                                             lab.base.RESTManager,
                                                             attrs: Dict[str, Any])

Bases: gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject

manager:  gitlab.base.RESTManager

class gitlab.v4.objects.ProjectMergeRequestNoteAwardEmojiManager (gl:      git-
                                                                    lab.client.Gitlab,
                                                                    parent:  Op-
                                                                    tional[gitlab.base.RESTObject]
                                                                    = None)
```

Bases: *gitlab.mixins.NoUpdateMixin, gitlab.base.RESTManager*

#### Object Creation

Mandatory attributes:

- name

#### Object update

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectMergeRequestNoteManager (gl:      gitlab.client.Gitlab,
                                                           parent:      Op-
                                                           tional[gitlab.base.RESTObject]
                                                           = None)
```

Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

#### Object Creation

Mandatory attributes:

- body

#### Object update

Mandatory attributes for object update:

- body

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectMergeRequestPipeline (manager:      git-
                                                         lab.base.RESTManager,  attrs:
                                                         Dict[str, Any])
```

Bases: *gitlab.base.RESTObject*

**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectMergeRequestPipelineManager (gl:      git-
                                                                    lab.client.Gitlab,
                                                                    parent:      Op-
                                                                    tional[gitlab.base.RESTObject]
                                                                    = None)
```

Bases: *gitlab.mixins.CreateMixin, gitlab.mixins.ListMixin, gitlab.base.RESTManager*

#### Object Creation

#### Object update

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectMergeRequestResourceLabelEvent (manager: git-
                                                                    lab.base.RESTManager,
                                                                    attrs: Dict[str,
                                                                    Any])
```

Bases: *gitlab.base.RESTObject*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectMergeRequestResourceLabelEventManager (gl: git-
                                                                    lab.client.Gitlab,
                                                                    parent:
                                                                    Op-
                                                                    tional[gitlab.base.RESTObject]
                                                                    =
                                                                    None)
```

Bases: *gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager*

Object Creation

Object update

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMergeRequestResourceMilestoneEvent (manager:
                                                                    git-
                                                                    lab.base.RESTManager,
                                                                    attrs:
                                                                    Dict[str,
                                                                    Any])
```

Bases: *gitlab.base.RESTObject*

manager: *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectMergeRequestResourceMilestoneEventManager (gl:
                                                                    git-
                                                                    lab.client.Gitlab,
                                                                    par-
                                                                    ent:
                                                                    Op-
                                                                    tional[gitlab.base.RESTO
                                                                    =
                                                                    None)
```

Bases: *gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager*

Object Creation

Object update

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMergeRequestResourceStateEvent (manager: git-
                                                                    lab.base.RESTManager,
                                                                    attrs: Dict[str,
                                                                    Any])
```

Bases: *gitlab.base.RESTObject*

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

gitlab: *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectMilestone (manager: gitlab.base.RESTManager, attrs:
                                           Dict[str, Any])
```

Bases: *gitlab.mixins.SaveMixin*, *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject*

**issues** (*\*\*kwargs*)

List issues related to this milestone.

#### Parameters

- **all** (*bool*) – If True, return all the items, without pagination
- **per\_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as\_list** (*bool*) – 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)

#### Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabListError* – If the list could not be retrieved

**Returns** The list of issues

**Return type** *RESTObjectList*

**manager:** *gitlab.base.RESTManager*

**merge\_requests** (*\*\*kwargs*)

List the merge requests related to this milestone.

#### Parameters

- **all** (*bool*) – If True, return all the items, without pagination
- **per\_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as\_list** (*bool*) – 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)

#### Raises

- *GitlabAuthenticationError* – If authentication is not correct



- ***GitlabListError*** – If the list could not be retrieved

**Returns** The list of merge requests

**Return type** *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

Mandatory attributes:

- *title*

Optional attributes:

- *description*
- *due\_date*
- *start\_date*
- *state\_event*

#### Object update

Optional attributes for object update:

- *title*
- *description*
- *due\_date*
- *start\_date*
- *state\_event*

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectNote (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: *gitlab.base.RESTObject*

**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

Mandatory attributes:

- *body*

#### Object update

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectNotificationSettings (manager: git-  
                                                    lab.base.RESTManager, attrs:  
                                                    Dict[str, Any])  
    Bases: gitlab.v4.objects.notification_settings.NotificationSettings  
    manager: gitlab.base.RESTManager  
  
class gitlab.v4.objects.ProjectNotificationSettingsManager (gl: git-  
                                                                lab.client.Gitlab,  
                                                                parent: Op-  
                                                                tional[gitlab.base.RESTObject]  
                                                                = None)  
    Bases: gitlab.v4.objects.notification_settings.NotificationSettingsManager
```

### Object Creation

### Object update

Optional attributes for object update:

- level
- notification\_email
- new\_note
- new\_issue
- reopen\_issue
- close\_issue
- reassign\_issue
- new\_merge\_request
- reopen\_merge\_request
- close\_merge\_request
- reassign\_merge\_request
- merge\_merge\_request

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectPackage (manager: gitlab.base.RESTManager, attrs: Dict[str,  
                                                    Any])
```

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

**manager:** *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectPackageFile (manager: gitlab.base.RESTManager, attrs:  
                                                    Dict[str, Any])
```

Bases: *gitlab.base.RESTObject*

**manager:** *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectPackageFileManager (gl: gitlab.client.Gitlab, parent:  
                                                    Optional[gitlab.base.RESTObject]  
                                                    = None)
```

Bases: *gitlab.mixins.ListMixin, gitlab.base.RESTManager*

### Object Creation

### Object update

**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

```
gitlab: gitlab.client.Gitlab
```

```
class gitlab.v4.objects.ProjectPagesDomain (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

```
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

Mandatory attributes:

- `domain`

Optional attributes:

- `certificate`
- `key`

#### Object update

Optional attributes for object update:

- `certificate`
- `key`

```
gitlab: gitlab.client.Gitlab
```

```
class gitlab.v4.objects.ProjectPipeline (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.RefreshMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

```
cancel (**kwargs)
```

Cancel the job.

**Parameters** *\*\*kwargs* – Extra options to send to the server (e.g. `sudo`)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct

- *GitlabPipelineCancelError* – If the request failed

**manager:** *gitlab.base.RESTManager*

**retry** (*\*\*kwargs*)  
Retry the job.

**Parameters** *\*\*kwargs* – Extra options to send to the server (e.g. sudo)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabPipelineRetryError* – If the request failed

**class** *gitlab.v4.objects.ProjectPipelineBridge* (*manager: gitlab.base.RESTManager, attrs: Dict[str, Any]*)

Bases: *gitlab.base.RESTObject*

**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**

**gitlab:** *gitlab.client.Gitlab*

**class** *gitlab.v4.objects.ProjectPipelineJob* (*manager: gitlab.base.RESTManager, attrs: Dict[str, Any]*)

Bases: *gitlab.base.RESTObject*

**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**

**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

Mandatory attributes:

- ref

### Object update

**create** (*data*, *\*\*kwargs*)  
Creates a new object.

#### Parameters

- **data** (*dict*) – Parameters to send to the server to create the resource
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

#### 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 *RESTObject*

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.ProjectPipelineSchedule` (*manager:* `gitlab.base.RESTManager`,  
*attrs:* `Dict[str, Any]`)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

**play** (*\*\*kwargs*)

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)

#### Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabPipelinePlayError* – If the request failed

**take\_ownership** (*\*\*kwargs*)

Update the owner of a pipeline schedule.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabOwnershipError* – If the request failed

```
class gitlab.v4.objects.ProjectPipelineScheduleManager (gl:      gitlab.client.Gitlab,  
                                                         parent:      Op-  
                                                         tional[gitlab.base.RESTObject]  
                                                         = None)
```

Bases: *gitlab.mixins.CRUDMixin*, *gitlab.base.RESTManager*

**Object Creation**

Mandatory attributes:

- description
- ref
- cron

Optional attributes:

- cron\_timezone
- active

**Object update**

Optional attributes for object update:

- description
- ref
- cron
- cron\_timezone
- active

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectPipelineScheduleVariable (manager:      git-  
                                                         lab.base.RESTManager,  
                                                         attrs: Dict[str, Any])
```

Bases: *gitlab.mixins.SaveMixin*, *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject*

**manager:** *gitlab.base.RESTManager*

```
class gitlab.v4.objects.ProjectPipelineScheduleVariableManager (gl:      git-  
                                                         lab.client.Gitlab,  
                                                         parent:      Op-  
                                                         tional[gitlab.base.RESTObject]  
                                                         = None)
```

Bases: *gitlab.mixins.CreateMixin*, *gitlab.mixins.UpdateMixin*, *gitlab.mixins.DeleteMixin*, *gitlab.base.RESTManager*

**Object Creation**

Mandatory attributes:

- key

- value

### Object update

Mandatory attributes for object update:

- key
- value

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectPipelineTestReport (manager: gitlab.base.RESTManager,
                                                    attrs: Dict[str, Any])
```

Bases: `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectPipelineVariable (manager: gitlab.base.RESTManager,
                                                    attrs: Dict[str, Any])
```

Bases: `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectProtectedBranch (manager: gitlab.base.RESTManager,
                                                    attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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

Mandatory attributes:

- name

Optional attributes:

- `push_access_level`
- `merge_access_level`
- `unprotect_access_level`
- `allowed_to_push`
- `allowed_to_merge`
- `allowed_to_unprotect`
- `code_owner_approval_required`

#### Object update

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectProtectedTag(manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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

Mandatory attributes:

- `name`

Optional attributes:

- `create_access_level`

#### Object update

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectPushRules(manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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

Optional attributes:

- `deny_delete_tag`
- `member_check`
- `prevent_secrets`



- `commit_message_regex`
- `branch_name_regex`
- `author_email_regex`
- `file_name_regex`
- `max_file_size`

### Object update

Optional attributes for object update:

- `deny_delete_tag`
- `member_check`
- `prevent_secrets`
- `commit_message_regex`
- `branch_name_regex`
- `author_email_regex`
- `file_name_regex`
- `max_file_size`

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectRegistryRepository (manager:          git-
                                                    lab.base.RESTManager, attrs:
                                                    Dict[str, Any])
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectRegistryRepositoryManager (gl:  gitlab.client.Gitlab,
                                                            parent:      Op-
                                                            tional[gitlab.base.RESTObject]
                                                            = None)
```

Bases: `gitlab.mixins.DeleteMixin`, `gitlab.mixins.ListMixin`, `gitlab.base.RESTManager`

### Object Creation

#### Object update

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectRegistryTag (manager:  gitlab.base.RESTManager, attrs:
                                                    Dict[str, Any])
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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

**delete\_in\_bulk** (*name\_regex*='.\*', *\*\*kwargs*)

Delete Tag in bulk

#### Parameters

- **name\_regex** (*string*) – The regex of the name to delete. To delete all tags specify `.*`.
- **keep\_n** (*integer*) – The amount of latest tags of given name to keep.
- **older\_than** (*string*) – 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`)

#### Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabDeleteError** – If the server cannot perform the request

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.ProjectRelease` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

**class** `gitlab.v4.objects.ProjectReleaseLink` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.mixins.SaveMixin`, `gitlab.base.RESTObject`

**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

Mandatory attributes:

- `name`
- `url`

Optional attributes:

- `filepath`
- `link_type`

#### Object update

Optional attributes for object update:

- `name`
- `url`
- `filepath`
- `link_type`

**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

Mandatory attributes:

- name
- tag\_name
- description

Optional attributes:

- ref
- assets

### Object update

Optional attributes for object update:

- name
- description
- milestones
- released\_at

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectRemoteMirror (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.base.RESTObject
```

**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

Mandatory attributes:

- url

Optional attributes:

- enabled
- only\_protected\_branches

### Object update

Optional attributes for object update:

- enabled
- only\_protected\_branches

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectRunner (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
    manager: gitlab.base.RESTManager
```

```
class gitlab.v4.objects.ProjectRunnerManager (gl: gitlab.client.Gitlab, parent: Optional[gitlab.base.RESTObject] = None)
    Bases: gitlab.mixins.NoUpdateMixin, gitlab.base.RESTManager
```

#### Object listing filters

- `scope`
- `tag_list`

#### Object Creation

Mandatory attributes:

- `runner_id`

#### Object update

**gitlab:** *gitlab.client.Gitlab*

```
class gitlab.v4.objects.ProjectService (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
    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

**available** (*\*\*kwargs*)

List the services known by python-gitlab.

**Returns** The list of service code names.

**Return type** list (str)

**get** (*id, \*\*kwargs*)

Retrieve a single object.

#### Parameters

- **id** (*int or 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)

**Returns** The generated RESTObject.

**Return type** object

#### Raises

- *GitlabAuthenticationError* – If authentication is not correct

- **GitlabGetError** – If the server cannot perform the request

**gitlab:** `gitlab.client.Gitlab`

**update** (*id=None, new\_data=None, \*\*kwargs*)

Update an object on the server.

#### Parameters

- **id** – ID of the object to update (can be None if not required)
- **new\_data** – the update data for the object
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Returns** The new object data (*not* a RESTObject)

**Return type** dict

#### Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabUpdateError** – If the server cannot perform the request

**class** `gitlab.v4.objects.ProjectSnippet` (*manager: gitlab.base.RESTManager, attrs: Dict[str, Any]*)

Bases: `gitlab.mixins.UserAgentDetailMixin`, `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**content** (*streamed=False, action=None, chunk\_size=1024, \*\*kwargs*)

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** (*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)

#### Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the content could not be retrieved

**Returns** The snippet content

**Return type** str

**manager:** `gitlab.base.RESTManager`

**class** `gitlab.v4.objects.ProjectSnippetAwardEmoji` (*manager: gitlab.base.RESTManager, attrs: Dict[str, Any]*)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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

Mandatory attributes:

- name

#### Object update

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectSnippetDiscussion (manager: gitlab.base.RESTManager,  
attrs: Dict[str, Any])
```

Bases: `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

```
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

Mandatory attributes:

- body

Optional attributes:

- created\_at

#### Object update

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectSnippetDiscussionNote (manager: git-  
lab.base.RESTManager, attrs: Dict[str, Any])  
  
Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectSnippetDiscussionNoteManager (gl: git-  
lab.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

Mandatory attributes:

- body

Optional attributes:

- created\_at

#### Object update

Mandatory attributes for object update:

- body

**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

Mandatory attributes:

- `title`
- `file_name`
- `content`
- `visibility`

Optional attributes:

- `description`

### Object update

Optional attributes for object update:

- `title`
- `file_name`
- `content`
- `visibility`
- `description`

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectSnippetNote (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**manager:** `gitlab.base.RESTManager`

```
class gitlab.v4.objects.ProjectSnippetNoteAwardEmoji (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
    Bases: gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**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

Mandatory attributes:

- `name`

### Object update

**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

Mandatory attributes:

- body

#### Object update

Mandatory attributes for object update:

- body

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectTag (manager:  gitlab.base.RESTManager,  attrs:  Dict[str,
                                                                                      Any])
    Bases: gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**manager:** `gitlab.base.RESTManager`

**set\_release\_description** (description, \*\*kwargs)

Set the release notes on the tag.

If the release doesn't exist yet, it will be created. If it already exists, its description will be updated.

#### Parameters

- **description** (*str*) – Description of the release.
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

#### Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the server fails to create the release
- `GitlabUpdateError` – If the server fails to update the release

```
class gitlab.v4.objects.ProjectTagManager (gl:  gitlab.client.Gitlab,  parent:  Op-
                                                    tional[gitlab.base.RESTObject] = None)
    Bases: gitlab.mixins.NoUpdateMixin, gitlab.base.RESTManager
```

#### Object Creation

Mandatory attributes:

- tag\_name
- ref

Optional attributes:

- message

#### Object update

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectTrigger (manager:  gitlab.base.RESTManager,  attrs:  Dict[str,
                                                                                      Any])
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.
    RESTObject
```



**manager:** `gitlab.base.RESTManager`

**take\_ownership** (*\*\*kwargs*)

Update the owner of a trigger.

**Parameters** *\*\*kwargs* – Extra options to send to the server (e.g. sudo)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabOwnershipError` – If the request failed

**class** `gitlab.v4.objects.ProjectTriggerManager` (*gl:* `gitlab.client.Gitlab`, *parent:* *Optional*[`gitlab.base.RESTObject`] = *None*)

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

**Object Creation**

Mandatory attributes:

- `description`

**Object update**

Mandatory attributes for object update:

- `description`

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.ProjectUser` (*manager:* `gitlab.base.RESTManager`, *attrs:* *Dict*[*str*, *Any*])

Bases: `gitlab.base.RESTObject`

**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**

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.ProjectVariable` (*manager:* `gitlab.base.RESTManager`, *attrs:* *Dict*[*str*, *Any*])

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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**

Mandatory attributes:

- key
- value

Optional attributes:

- protected
- variable\_type
- masked
- environment\_scope

### Object update

Mandatory attributes for object update:

- key
- value

Optional attributes for object update:

- protected
- variable\_type
- masked
- environment\_scope

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.ProjectWiki (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])  
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

**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

Mandatory attributes:

- title
- content

Optional attributes:

- format

### Object update

Optional attributes for object update:

- title
- content
- format

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.Runner` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)  
 Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**manager:** `gitlab.base.RESTManager`

**class** `gitlab.v4.objects.RunnerJob` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)  
 Bases: `gitlab.base.RESTObject`

**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

**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

Mandatory attributes:

- `token`

Optional attributes:

- `description`
- `info`
- `active`
- `locked`
- `run_untagged`
- `tag_list`
- `access_level`
- `maximum_timeout`

#### Object update

Optional attributes for object update:

- `description`
- `active`
- `tag_list`

- `run_untagged`
- `locked`
- `access_level`
- `maximum_timeout`

**all** (*scope=None, \*\*kwargs*)  
List all the runners.

#### Parameters

- **scope** (*str*) – The scope of runners to show, one of: `specific`, `shared`, `active`, `paused`, `online`
- **all** (*bool*) – If True, return all the items, without pagination
- **per\_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as\_list** (*bool*) – 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`)

#### 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(Runner)`

**gitlab:** `gitlab.client.Gitlab`

**verify** (*token, \*\*kwargs*)  
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`)

#### Raises

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabVerifyError`](#) – If the server failed to verify the token

**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

**compound\_metrics** (*\*\*kwargs*)  
Return all available metrics and statistics.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. `sudo`)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the information couldn't be retrieved

**Returns** All available Sidekiq metrics and statistics

**Return type** dict

**gitlab:** `gitlab.client.Gitlab`

**job\_stats** (*\*\*kwargs*)

Return statistics about the jobs performed.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the information couldn't be retrieved

**Returns** Statistics about the Sidekiq jobs performed

**Return type** dict

**process\_metrics** (*\*\*kwargs*)

Return the registred sidekiq workers.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the information couldn't be retrieved

**Returns** Information about the register Sidekiq worker

**Return type** dict

**queue\_metrics** (*\*\*kwargs*)

Return the registred queues information.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabGetError`](#) – If the information couldn't be retrieved

**Returns** Information about the Sidekiq queues

**Return type** dict

**class** `gitlab.v4.objects.Snippet` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

**Bases:** `gitlab.mixins.UserAgentDetailMixin`, `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**content** (*streamed=False*, *action=None*, *chunk\_size=1024*, *\*\*kwargs*)

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** (*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)

**Raises**

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabGetError** – If the content could not be retrieved

**Returns** The snippet content

**Return type** str

**manager:** *gitlab.base.RESTManager*

**class** gitlab.v4.objects.SnippetManager (*gl:* *gitlab.client.Gitlab*, *parent:* *Optional[gitlab.base.RESTObject] = None*) *Op-*  
Bases: *gitlab.mixins.CRUDMixin, gitlab.base.RESTManager*

**Object Creation**

Mandatory attributes:

- title
- file\_name
- content

Optional attributes:

- lifetime
- visibility

**Object update**

Optional attributes for object update:

- title
- file\_name
- content
- visibility

**gitlab:** *gitlab.client.Gitlab*

**public** (*\*\*kwargs*)

List all the public snippets.

**Parameters**

- **all** (*bool*) – If True the returned object will be a list
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises** **GitlabListError** – If the list could not be retrieved

**Returns** A generator for the snippets list

**Return type** *RESTObjectList*

**class** gitlab.v4.objects.TODO (*manager:* *gitlab.base.RESTManager*, *attrs:* *Dict[str, Any]*)

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

**manager:** *gitlab.base.RESTManager*

**mark\_as\_done** (\*\*kwargs)

Mark the todo as done.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabTodoError* – If the server failed to perform the request

**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**

**gitlab:** *gitlab.client.Gitlab*

**mark\_all\_as\_done** (\*\*kwargs)

Mark all the todos as done.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabTodoError* – If the server failed to perform the request

**Returns** The number of todos maked done

**Return type** int

**class** gitlab.v4.objects.**User** (manager: *gitlab.base.RESTManager*, attrs: *Dict[str, Any]*)  
 Bases: *gitlab.mixins.SaveMixin*, *gitlab.mixins.ObjectDeleteMixin*, *gitlab.base.RESTObject*

**activate** (\*\*kwargs)

Activate the user.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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** bool

**block** (*\*\*kwargs*)

Block the user.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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** bool

**deactivate** (*\*\*kwargs*)

Deactivate the user.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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** bool

**follow** (*\*\*kwargs*)

Follow the user.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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** dict

**manager:** [\*gitlab.base.RESTManager\*](#)

**unblock** (*\*\*kwargs*)

Unblock the user.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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** bool

**unfollow** (*\*\*kwargs*)

Unfollow the user.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**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** dict

```
class gitlab.v4.objects.UserActivities (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.base.RESTObject`

**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**

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.UserCustomAttribute (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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**

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.UserEmail (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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**

Mandatory attributes:

- email

**Object update**

**gitlab:** `gitlab.client.Gitlab`

```
class gitlab.v4.objects.UserEvent (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.v4.objects.events.Event`

**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

```
gitlab: gitlab.client.Gitlab
```

```
class gitlab.v4.objects.UserGPGKey (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

```
    Bases: gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

```
    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

Mandatory attributes:

- key

#### Object update

```
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

```
gitlab: gitlab.client.Gitlab
```

```
class gitlab.v4.objects.UserImpersonationToken (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

```
    Bases: gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

```
    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

Mandatory attributes:

- name
- scopes

Optional attributes:

- expires\_at

#### Object update

**gitlab:** **gitlab.client.Gitlab**

```
class gitlab.v4.objects.UserKey (manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: *gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject*

**manager:** **gitlab.base.RESTManager**

```
class gitlab.v4.objects.UserKeyManager (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

Mandatory attributes:

- title
- key

#### Object update

**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

Optional attributes:

- email
- username
- name
- password
- reset\_password
- skype
- linkedin
- twitter
- projects\_limit
- extern\_uid
- provider
- bio
- admin
- can\_create\_group
- website\_url
- skip\_confirmation
- external
- organization
- location
- avatar
- public\_email
- private\_profile
- color\_scheme\_id
- theme\_id

### Object update

Mandatory attributes for object update:

- email
- username
- name

Optional attributes for object update:

- password
- skype

- linkedin
- twitter
- projects\_limit
- extern\_uid
- provider
- bio
- admin
- can\_create\_group
- website\_url
- skip\_reconfirmation
- external
- organization
- location
- avatar
- public\_email
- private\_profile
- color\_scheme\_id
- theme\_id

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.UserMembership` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.base.RESTObject`

**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**

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.UserProject` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.base.RESTObject`

**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

Mandatory attributes:

- name

Optional attributes:

- default\_branch
- issues\_enabled
- wall\_enabled
- merge\_requests\_enabled
- wiki\_enabled
- snippets\_enabled
- public
- visibility
- description
- builds\_enabled
- public\_builds
- import\_url
- only\_allow\_merge\_if\_build\_succeeds

### Object update

**gitlab:** `gitlab.client.Gitlab`

**list** (*\*\*kwargs*)

Retrieve a list of objects.

#### Parameters

- **all** (*bool*) – If True, return all the items, without pagination
- **per\_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as\_list** (*bool*) – 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)

**Returns** The list of objects, or a generator if *as\_list* is False

**Return type** list

#### Raises

- **GitlabAuthenticationError** – If authentication is not correct
- **GitlabListError** – If the server cannot perform the request

```
class gitlab.v4.objects.UserStatus(manager: gitlab.base.RESTManager, attrs: Dict[str, Any])
```

Bases: `gitlab.base.RESTObject`

**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

**gitlab:** `gitlab.client.Gitlab`

**class** `gitlab.v4.objects.Variable` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

**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

Mandatory attributes:

- key
- value

Optional attributes:

- protected
- variable\_type

- masked

### Object update

Mandatory attributes for object update:

- key
- value

Optional attributes for object update:

- protected
- variable\_type
- masked

**gitlab:** `gitlab.client.Gitlab`

## Module contents

## 6.3 Submodules

## 6.4 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

**gitlab:** `gitlab.client.Gitlab`

**property** `parent_attrs`

**property** `path`

**class** `gitlab.base.RESTObject` (*manager:* `gitlab.base.RESTManager`, *attrs:* `Dict[str, Any]`)

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.

**property** `attributes`

**get\_id()**  $\rightarrow$  `Any`

Returns the id of the resource.

**manager:** `gitlab.base.RESTManager`



```
class gitlab.base.RESTObjectList (manager:          gitlab.base.RESTManager,      obj_cls:
                                Type[gitlab.base.RESTObject],      _list:      git-
                                lab.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** – Manager to attach to the created objects
- **obj\_cls** – Type of objects to create from the json data
- **\_list** – A GitlabList object

**property current\_page**

The current page number.

**next ()** → *gitlab.base.RESTObject*

**property next\_page**

The next page number.

If None, the current page is the last.

**property per\_page**

The number of items per page.

**property prev\_page**

The previous page number.

If None, the current page is the first.

**property total**

The total number of items.

**property total\_pages**

The total number of pages.

```
class gitlab.base.RequiredOptional (required, optional)
```

Bases: tuple

**optional:** **Tuple**[**str**, ...]

Alias for field number 1

**required:** **Tuple**[**str**, ...]

Alias for field number 0

## 6.5 gitlab.cli module

**gitlab.cli.cls\_to\_what** (*cls:* *gitlab.base.RESTObject*) → str

**gitlab.cli.die** (*msg:* str, *e:* *Optional*[*Exception*] = None) → 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.

**gitlab.cli.main** () → None

```
gitlab.cli.register_custom_action(cls_names: Union[str, Tuple[str, ...]], mandatory: Tuple[str, ...] = (), optional: Tuple[str, ...] = (), custom_action: Optional[str] = None) → Callable[[__F], __F]

gitlab.cli.what_to_cls(what: str, namespace: module) → Type[gitlab.base.RESTObject]
```

## 6.6 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

exception gitlab.config.GitlabDataError
    Bases: gitlab.config.ConfigError

exception gitlab.config.GitlabIDError
    Bases: gitlab.config.ConfigError
```

## 6.7 gitlab.const module

## 6.8 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

exception gitlab.exceptions.GitlabAttachFileError(error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
    Bases: gitlab.exceptions.GitlabOperationError

exception gitlab.exceptions.GitlabAuthenticationError(error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
    Bases: gitlab.exceptions.GitlabError

exception gitlab.exceptions.GitlabBlockError(error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
    Bases: gitlab.exceptions.GitlabOperationError
```

```
exception gitlab.exceptions.GitlabBuildCancelError (error_message: Union[str, bytes]
                                                    = "", response_code: Optional[int]
                                                    = None, response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabCancelError`

```
exception gitlab.exceptions.GitlabBuildEraseError (error_message: Union[str, bytes]
                                                    = "", response_code: Optional[int]
                                                    = None, response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabRetryError`

```
exception gitlab.exceptions.GitlabBuildPlayError (error_message: Union[str, bytes]
                                                    = "", response_code: Optional[int]
                                                    = None, response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabRetryError`

```
exception gitlab.exceptions.GitlabBuildRetryError (error_message: Union[str, bytes]
                                                    = "", response_code: Optional[int]
                                                    = None, response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabRetryError`

```
exception gitlab.exceptions.GitlabCancelError (error_message: Union[str, bytes] = "", re-
                                                    sponse_code: Optional[int] = None, re-
                                                    sponse_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabCherryPickError (error_message: Union[str, bytes]
                                                    = "", response_code: Optional[int]
                                                    = None, response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabConnectionError (error_message: Union[str, bytes]
                                                    = "", response_code: Optional[int]
                                                    = None, response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabError`

```
exception gitlab.exceptions.GitlabCreateError (error_message: Union[str, bytes] = "", re-
                                                    sponse_code: Optional[int] = None, re-
                                                    sponse_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabDeactivateError (error_message: Union[str, bytes]
                                                    = "", response_code: Optional[int]
                                                    = None, response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabDeleteError (error_message: Union[str, bytes] = "", re-
                                                    sponse_code: Optional[int] = None, re-
                                                    sponse_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabError (error_message: Union[str, bytes] = "", re-
                                                    sponse_code: Optional[int] = None, re-
                                                    sponse_body: Optional[bytes] = None)
```

Bases: `Exception`

```
exception gitlab.exceptions.GitlabFollowError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)

Bases: gitlab.exceptions.GitlabOperationError

exception gitlab.exceptions.GitlabGetError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)

Bases: gitlab.exceptions.GitlabOperationError

exception gitlab.exceptions.GitlabHousekeepingError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)

Bases: gitlab.exceptions.GitlabOperationError

exception gitlab.exceptions.GitlabHttpError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)

Bases: gitlab.exceptions.GitlabError

exception gitlab.exceptions.GitlabImportError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)

Bases: gitlab.exceptions.GitlabOperationError

exception gitlab.exceptions.GitlabJobCancelError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)

Bases: gitlab.exceptions.GitlabCancelError

exception gitlab.exceptions.GitlabJobEraseError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)

Bases: gitlab.exceptions.GitlabRetryError

exception gitlab.exceptions.GitlabJobPlayError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)

Bases: gitlab.exceptions.GitlabRetryError

exception gitlab.exceptions.GitlabJobRetryError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)

Bases: gitlab.exceptions.GitlabRetryError

exception gitlab.exceptions.GitlabLicenseError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)

Bases: gitlab.exceptions.GitlabOperationError

exception gitlab.exceptions.GitlabListError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)

Bases: gitlab.exceptions.GitlabOperationError
```

```
exception gitlab.exceptions.GitlabMRApprovalError (error_message: Union[str, bytes]
                                                    = "", response_code: Optional[int]
                                                    = None, response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabMRClosedError (error_message: Union[str, bytes] =
                                                    "", response_code: Optional[int] =
                                                    None, response_body: Optional[bytes]
                                                    = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabMRForbiddenError (error_message: Union[str, bytes]
                                                       = "", response_code: Optional[int]
                                                       = None, response_body: Op-
                                                       tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabMROnBuildSuccessError (error_message: Union[str,
                                                                                    bytes] = "", response_code:
                                                                                    Optional[int] = None,
                                                                                    response_body: Op-
                                                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabMRRebaseError (error_message: Union[str, bytes] =
                                                    "", response_code: Optional[int] =
                                                    None, response_body: Optional[bytes]
                                                    = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabMarkdownError (error_message: Union[str, bytes] =
                                                    "", response_code: Optional[int] =
                                                    None, response_body: Optional[bytes]
                                                    = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabOperationError (error_message: Union[str, bytes]
                                                    = "", response_code: Optional[int]
                                                    = None, response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabError`

```
exception gitlab.exceptions.GitlabOwnershipError (error_message: Union[str, bytes]
                                                    = "", response_code: Optional[int]
                                                    = None, response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabParsingError (error_message: Union[str, bytes] =
                                                    "", response_code: Optional[int] =
                                                    None, response_body: Optional[bytes]
                                                    = None)
```

Bases: `gitlab.exceptions.GitlabError`

```
exception gitlab.exceptions.GitlabPipelineCancelError (error_message: Union[str,
                                                                                    bytes] = "", response_code:
                                                                                    Optional[int] = None,
                                                                                    response_body: Op-
                                                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabCancelError`

```
exception gitlab.exceptions.GitlabPipelinePlayError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabRetryError`

```
exception gitlab.exceptions.GitlabPipelineRetryError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabRetryError`

```
exception gitlab.exceptions.GitlabProjectDeployKeyError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabProtectError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabRenderError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabRepairError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabRetryError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabRevertError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabSearchError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabSetError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabStopError (error_message: Union[str, bytes] = "", response_code: Optional[int] = None, response_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabSubscribeError (error_message: Union[str, bytes]
                                                    = "", response_code: Optional[int]
                                                    = None, response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabTimeTrackingError (error_message: Union[str,
                                                    bytes] = "", response_code:
                                                    Optional[int] = None, re-
                                                    sponse_body: Optional[bytes] =
                                                    None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabTodoError (error_message: Union[str, bytes] = "", re-
                                                    sponse_code: Optional[int] = None, re-
                                                    sponse_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabTransferProjectError (error_message: Union[str,
                                                    bytes] = "", response_code:
                                                    Optional[int] = None,
                                                    response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabUnblockError (error_message: Union[str, bytes] =
                                                    "", response_code: Optional[int] =
                                                    None, response_body: Optional[bytes]
                                                    = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabUnfollowError (error_message: Union[str, bytes] =
                                                    "", response_code: Optional[int] =
                                                    None, response_body: Optional[bytes]
                                                    = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabUnsubscribeError (error_message: Union[str, bytes]
                                                    = "", response_code: Optional[int]
                                                    = None, response_body: Op-
                                                    tional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabUpdateError (error_message: Union[str, bytes] = "", re-
                                                    sponse_code: Optional[int] = None, re-
                                                    sponse_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabUploadError (error_message: Union[str, bytes] = "", re-
                                                    sponse_code: Optional[int] = None, re-
                                                    sponse_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.GitlabVerifyError (error_message: Union[str, bytes] = "", re-
                                                    sponse_code: Optional[int] = None, re-
                                                    sponse_body: Optional[bytes] = None)
```

Bases: `gitlab.exceptions.GitlabOperationError`

```
exception gitlab.exceptions.RedirectError (error_message: Union[str, bytes] = "", re-
                                                    sponse_code: Optional[int] = None, re-
                                                    sponse_body: Optional[bytes] = None)
```



Bases: `gitlab.exceptions.GitlabError`

`gitlab.exceptions.on_http_error` (*error: Type[Exception]*) → Callable[[`__F`], `__F`]  
Manage GitlabHttpError exceptions.

This decorator function can be used to catch GitlabHttpError exceptions raise specialized exceptions instead.

**Parameters** `error` (*Exception*) – The exception type to raise – must inherit from GitlabError

## 6.9 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)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabUpdateError` – If the server fails to perform the request

**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)

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabRenderError` – If the rendering failed

**Returns** The rendering properties

**Return type** `dict`

**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** (*dict*) – parameters to send to the server to create the resource
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

#### Returns

a new instance of the managed object class built with the data sent by the server

Return type *RESTObject*

#### Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabCreateError* – If the server cannot perform the request

**gitlab:** *gitlab.client.Gitlab*

**class** *gitlab.mixins.DeleteMixin*

Bases: *object*

**delete** (*id: Union[str, int], \*\*kwargs: Any*) → *None*  
 Delete an object on the server.

#### Parameters

- **id** – ID of the object to delete
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

#### Raises

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabDeleteError* – If the server cannot perform the request

**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** (*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)

#### 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 *str*

**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** (*int or 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)

**Returns** The generated RESTObject.

**Return type** `object`

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

**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)

**Returns** The generated RESTObject

**Return type** `object`

**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

**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** (*bool*) – If True, return all the items, without pagination
- **per\_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as\_list** (*bool*) – 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)

**Returns** The list of objects, or a generator if *as\_list* is False

**Return type** list

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabListError* – If the server cannot perform the request

```
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)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabDeleteError* – If the server cannot perform the request

**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** (*bool*) – If True, return all the items, without pagination
- **per\_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as\_list** (*bool*) – 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)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabListError* – If the list could not be retrieved

**Returns** The list of participants

**Return type** *RESTObjectList*

```
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)

Returns None (updates the object)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

**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*) → 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)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabUpdateError* – If the server cannot perform the request

**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)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabSetError* – If an error occurred

**Returns** The created/updated attribute

**Return type** obj

**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)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabSubscribeError`](#) – If the subscription cannot be done

**unsubscribe** (*\*\*kwargs: Any*) → None  
Unsubscribe from the object notifications.

**Parameters** **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabUnsubscribeError`](#) – If the unsubscription cannot be done

**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)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabTimeTrackingError`](#) – If the time tracking update cannot be done

**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)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabTimeTrackingError`](#) – If the time tracking update cannot be done

**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)

**Raises**

- [`GitlabAuthenticationError`](#) – If authentication is not correct
- [`GitlabTimeTrackingError`](#) – If the time tracking update cannot be done

**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)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabTimeTrackingError* – If the time tracking update cannot be done

**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)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabTimeTrackingError* – If the time tracking update cannot be done

**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)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabTodoError* – If the todo cannot be set

**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** – ID of the object to update (can be None if not required)
- **new\_data** – the update data for the object
- **\*\*kwargs** – Extra options to send to the server (e.g. sudo)

**Returns** The new object data (*not* a RESTObject)

**Return type** dict

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabUpdateError* – If the server cannot perform the request

**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)

**Raises**

- *GitlabAuthenticationError* – If authentication is not correct
- *GitlabGetError* – If the server cannot perform the request

## 6.10 gitlab.utils module

gitlab.utils.**clean\_str\_id** (*id: str*) → str

gitlab.utils.**copy\_dict** (*dest: Dict[str, Any], src: Dict[str, Any]*) → None

gitlab.utils.**remove\_none\_from\_dict** (*data: Dict[str, Any]*) → Dict[str, Any]

gitlab.utils.**response\_content** (*response: requests.models.Response, streamed: bool, action: Optional[Callable], chunk\_size: int*) → Optional[bytes]

gitlab.utils.**sanitized\_url** (*url: str*) → str





## 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.

## III. Results

## GitLab API Command Line Interface

```
usage: gitlab [-h] [--version] [-v] [-d] [-c CONFIG_FILE] [-g GITLAB]
              [-o {json,legacy,yaml}] [-f FIELDS]
              {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-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-issue,group-epic-resource-label-event,group-
→export,group-hook,group-import,group-issue,group-issues-statistics,group-label,
→group-member,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-
→additional-statistics,project-approval,project-approval-rule,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-merge-request,project-merge-request-approval,project-
→merge-request-approval-rule,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-milestone,
→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-tag,
→report,project-pipeline-variable,project-protected-branch,project-protected-tag,
→project-push-rules,project-registry-repository,project-registry-tag,project-release,
→project-release-link,project-remote-mirror,project-runner,project-service,project-267
→snippet,project-snippet-award-emoji,project-snippet-discussion,project-snippet-
→discussion-note,project-snippet-note,project-snippet-note-award-emoji,project-tag,
→project-trigger,project-user,project-variable,project-wiki,runner,runner-job,
→snippet-todo,user-user-activities,user-custom-attribute,user-email,user-event,user-
```

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...

- h, --help**  
show this help message and exit
- version**  
Display the version.
- v, --verbose, --fancy**  
Verbose mode (legacy format only)
- d, --debug**  
Debug mode (display HTTP requests)
- c <config\_file>, --config-file <config\_file>**  
Configuration file to use. Can be used multiple times.
- 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

### 7.1.1 gitlab application

```
usage: gitlab application [-h] {list,create,delete} ...
```

- h, --help**  
show this help message and exit

### 7.1.2 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>**

### 7.1.3 gitlab application delete

```
usage: gitlab application delete [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.4 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**

### 7.1.5 gitlab application-appearance

```
usage: gitlab application-appearance [-h] {get,update} ...
```

**-h, --help**  
show this help message and exit

### 7.1.6 gitlab application-appearance get

```
usage: gitlab application-appearance get [-h] [--sudo SUDO]
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

### 7.1.7 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]
```

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<code>↪BACKGROUND_COLOR]</code>	<code>[--footer-message FOOTER_MESSAGE]</code>
	<code>[--message-background-color MESSAGE_</code>
	<code>[--message-font-color MESSAGE_FONT_COLOR]</code>
<code>↪HEADER_AND_FOOTER_ENABLED]</code>	<code>[--email-header-and-footer-enabled EMAIL_</code>

**-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>

### 7.1.8 gitlab application-settings

<code>usage: gitlab application-settings [-h] {get,update} ...</code>
---

**-h, --help**  
show this help message and exit

### 7.1.9 gitlab application-settings get

<code>usage: gitlab application-settings get [-h] [--sudo SUDO]</code>
--

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

## 7.1.10 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]
                                          [--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]
```

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```

↪INTERVAL_MULTIPLIER]                                [--polling-interval-multiplier POLLING_
                                                         [--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]

```

**-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>
```

### 7.1.11 gitlab audit-event

```
usage: gitlab audit-event [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.12 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>

### 7.1.13 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**

### 7.1.14 gitlab broadcast-message

```
usage: gitlab broadcast-message [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.15 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** <font>

### 7.1.16 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>

### 7.1.17 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>

### 7.1.18 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**

### 7.1.19 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** <font>

### 7.1.20 gitlab current-user

```
usage: gitlab current-user [-h] {get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.21 gitlab current-user get

```
usage: gitlab current-user get [-h] [--sudo SUDO]
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

### 7.1.22 gitlab current-user-email

```
usage: gitlab current-user-email [-h] {list,get,create,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.23 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>

### 7.1.24 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>

### 7.1.25 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>

### 7.1.26 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**

### 7.1.27 gitlab current-user-gpg-key

```
usage: gitlab current-user-gpg-key [-h] {list,get,create,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.28 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>

### 7.1.29 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>

### 7.1.30 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>

### 7.1.31 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**

### 7.1.32 gitlab current-user-key

```
usage: gitlab current-user-key [-h] {list,get,create,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.33 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>

### 7.1.34 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>

### 7.1.35 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>

### 7.1.36 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**

### 7.1.37 gitlab current-user-status

```
usage: gitlab current-user-status [-h] {get,update} ...
```

**-h, --help**  
show this help message and exit

### 7.1.38 gitlab current-user-status get

```
usage: gitlab current-user-status get [-h] [--sudo SUDO]
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

### 7.1.39 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>

### 7.1.40 gitlab deploy-key

```
usage: gitlab deploy-key [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.41 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**

### 7.1.42 gitlab deploy-token

```
usage: gitlab deploy-token [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.43 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**

### 7.1.44 gitlab dockerfile

```
usage: gitlab dockerfile [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.45 gitlab dockerfile get

```
usage: gitlab dockerfile get [-h] [--sudo SUDO] --name NAME
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--name** <name>

### 7.1.46 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**

### 7.1.47 gitlab event

```
usage: gitlab event [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.48 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**

### 7.1.49 gitlab feature

```
usage: gitlab feature [-h] {list,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.50 gitlab feature delete

```
usage: gitlab feature delete [-h] [--sudo SUDO] --name NAME
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--name** <name>

### 7.1.51 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**

### 7.1.52 gitlab generic-package

```
usage: gitlab generic-package [-h] {upload,download} ...
```

**-h, --help**  
show this help message and exit

### 7.1.53 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>

### 7.1.54 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>
```

### 7.1.55 gitlab geo-node

```
usage: gitlab geo-node [-h]
                        {list,get,update,delete,repair,status,current-failures}
                        ...
```

**-h, --help**  
show this help message and exit

### 7.1.56 gitlab geo-node current-failures

```
usage: gitlab geo-node current-failures [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id <id>**

### 7.1.57 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>**

### 7.1.58 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>**

### 7.1.59 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**

### 7.1.60 gitlab geo-node repair

```
usage: gitlab geo-node repair [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.61 gitlab geo-node status

```
usage: gitlab geo-node status [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.62 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>

### 7.1.63 gitlab gitignore

```
usage: gitlab gitignore [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.64 gitlab gitignore get

```
usage: gitlab gitignore get [-h] [--sudo SUDO] --name NAME
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--name** <name>

### 7.1.65 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**

### 7.1.66 gitlab gitlabciyaml

```
usage: gitlab gitlabciyaml [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.67 gitlab gitlabciyaml get

```
usage: gitlab gitlabciyaml get [-h] [--sudo SUDO] --name NAME
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--name** <name>

### 7.1.68 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**

### 7.1.69 gitlab group

```
usage: gitlab group [-h]
                    {list,get,create,update,delete,transfer-project,search,add-ldap-
↪group-link,delete-ldap-group-link,ldap-sync,share,unshare}
                    ...
```

**-h, --help**  
show this help message and exit

### 7.1.70 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>

### 7.1.71 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]
```

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```

[--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>

### 7.1.72 gitlab group delete

```
usage: gitlab group delete [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.73 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>

### 7.1.74 gitlab group get

```
usage: gitlab group get [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.75 gitlab group ldap-sync

```
usage: gitlab group ldap-sync [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>



### 7.1.76 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**

### 7.1.77 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>

### 7.1.78 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>

### 7.1.79 gitlab group transfer-project

```
usage: gitlab group transfer-project [-h] --id ID --to-project-id
                                      TO_PROJECT_ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

**--to-project-id** <to\_project\_id>

### 7.1.80 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>

### 7.1.81 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]
```

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```

[--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>

### 7.1.82 gitlab group-access-request

```
usage: gitlab group-access-request [-h] {list,create,delete,approve} ...
```

**-h, --help**  
show this help message and exit

### 7.1.83 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>

### 7.1.84 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>

### 7.1.85 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>

### 7.1.86 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**

### 7.1.87 gitlab group-audit-event

```
usage: gitlab group-audit-event [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.88 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>

### 7.1.89 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
```

### 7.1.90 gitlab group-badge

```
usage: gitlab group-badge [-h] {list,get,create,update,delete,render} ...
```

```
-h, --help
    show this help message and exit
```

### 7.1.91 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>
```

### 7.1.92 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>
```

### 7.1.93 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>
```

### 7.1.94 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**

### 7.1.95 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>

### 7.1.96 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>

### 7.1.97 gitlab group-billable-member

```
usage: gitlab group-billable-member [-h] {list,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.98 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>

### 7.1.99 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**

### 7.1.100 gitlab group-billable-member-membership

```
usage: gitlab group-billable-member-membership [-h] {list} ...
```

**-h, --help**  
show this help message and exit



### 7.1.101 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**

### 7.1.102 gitlab group-board

```
usage: gitlab group-board [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.103 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>

### 7.1.104 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>

### 7.1.105 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>

### 7.1.106 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**

### 7.1.107 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>

### 7.1.108 gitlab group-board-list

```
usage: gitlab group-board-list [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.109 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>

### 7.1.110 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>

### 7.1.111 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>

### 7.1.112 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**

### 7.1.113 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>

### 7.1.114 gitlab group-cluster

```
usage: gitlab group-cluster [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.115 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>

```

### 7.1.116 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>

```

### 7.1.117 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>

```

### 7.1.118 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**

### 7.1.119 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>

### 7.1.120 gitlab group-custom-attribute

```
usage: gitlab group-custom-attribute [-h] {list,get,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.121 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>

### 7.1.122 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>

### 7.1.123 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**

### 7.1.124 gitlab group-deploy-token

```
usage: gitlab group-deploy-token [-h] {list,create,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.125 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>

### 7.1.126 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>

### 7.1.127 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**

### 7.1.128 gitlab group-descendant-group

```
usage: gitlab group-descendant-group [-h] {list} ...
```

**-h, --help**

show this help message and exit

### 7.1.129 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
```

### 7.1.130 gitlab group-epic

```
usage: gitlab group-epic [-h] {list,get,create,update,delete} ...
```

```
-h, --help
    show this help message and exit
```

### 7.1.131 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>

### 7.1.132 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>

### 7.1.133 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>

### 7.1.134 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**

### 7.1.135 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>

### 7.1.136 gitlab group-epic-issue

```
usage: gitlab group-epic-issue [-h] {list,create,update,delete} ...
```

**-h, --help**  
 show this help message and exit

### 7.1.137 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>

### 7.1.138 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>

### 7.1.139 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**

### 7.1.140 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>

### 7.1.141 gitlab group-epic-resource-label-event

```
usage: gitlab group-epic-resource-label-event [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.142 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>

### 7.1.143 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**

### 7.1.144 gitlab group-export

```
usage: gitlab group-export [-h] {get,create,download} ...
```

**-h, --help**  
show this help message and exit

### 7.1.145 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>

### 7.1.146 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>

### 7.1.147 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>

### 7.1.148 gitlab group-hook

```
usage: gitlab group-hook [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.149 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>

### 7.1.150 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>

### 7.1.151 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>

### 7.1.152 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**

### 7.1.153 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]
```

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```
[--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>

### 7.1.154 gitlab group-import

```
usage: gitlab group-import [-h] {get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.155 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>

### 7.1.156 gitlab group-issue

```
usage: gitlab group-issue [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.157 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

```

### 7.1.158 gitlab group-issues-statistics

```
usage: gitlab group-issues-statistics [-h] {get} ...
```

```

-h, --help
    show this help message and exit

```

### 7.1.159 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>

```

### 7.1.160 gitlab group-label

```
usage: gitlab group-label [-h]
                           {list,create,update,delete,subscribe,unsubscribe}
                           ...
```

```

-h, --help
    show this help message and exit

```

### 7.1.161 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>

### 7.1.162 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>

### 7.1.163 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**

### 7.1.164 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>

### 7.1.165 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>

### 7.1.166 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>

### 7.1.167 gitlab group-member

```
usage: gitlab group-member [-h] {list,get,create,update,delete,all} ...
```

**-h, --help**  
show this help message and exit

### 7.1.168 gitlab group-member all

```
usage: gitlab group-member all [-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>

### 7.1.169 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>

### 7.1.170 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>

### 7.1.171 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>

### 7.1.172 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
```

### 7.1.173 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>
```

### 7.1.174 gitlab group-merge-request

```
usage: gitlab group-merge-request [-h] {list} ...
```

```
-h, --help
    show this help message and exit
```

### 7.1.175 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
```

### 7.1.176 gitlab group-milestone

```
usage: gitlab group-milestone [-h]
                               {list,get,create,update,delete,issues,merge-requests}
                               ...
```

**-h, --help**  
show this help message and exit



### 7.1.177 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>

### 7.1.178 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>

### 7.1.179 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>

### 7.1.180 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>

### 7.1.181 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**

### 7.1.182 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>

### 7.1.183 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>

### 7.1.184 gitlab group-notification-settings

```
usage: gitlab group-notification-settings [-h] {get,update} ...
```

**-h, --help**  
show this help message and exit

### 7.1.185 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>

### 7.1.186 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>

### 7.1.187 gitlab group-package

```
usage: gitlab group-package [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.188 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**

### 7.1.189 gitlab group-project

```
usage: gitlab group-project [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.190 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]
```

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```

--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**

### 7.1.191 gitlab group-runner

```
usage: gitlab group-runner [-h] {list,get,create,delete} ...
```

**-h, --help**

show this help message and exit

### 7.1.192 gitlab group-runner create

```
usage: gitlab group-runner create [-h] [--sudo SUDO] --group-id GROUP_ID
                                   --runner-id RUNNER_ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--group-id** <group\_id>

**--runner-id** <runner\_id>

### 7.1.193 gitlab group-runner delete

```
usage: gitlab group-runner 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>

### 7.1.194 gitlab group-runner get

```
usage: gitlab group-runner 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>

### 7.1.195 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**

### 7.1.196 gitlab group-subgroup

```
usage: gitlab group-subgroup [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.197 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**



### 7.1.198 gitlab group-variable

```
usage: gitlab group-variable [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.199 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>

### 7.1.200 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>

### 7.1.201 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>

### 7.1.202 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**

### 7.1.203 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>

### 7.1.204 gitlab group-wiki

```
usage: gitlab group-wiki [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.205 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>

### 7.1.206 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>

### 7.1.207 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>

### 7.1.208 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
```

### 7.1.209 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>
```

### 7.1.210 gitlab hook

```
usage: gitlab hook [-h] {list,get,create,delete} ...
```

```
-h, --help
    show this help message and exit
```

### 7.1.211 gitlab hook create

```
usage: gitlab hook create [-h] [--sudo SUDO] --url URL
```

```
-h, --help
    show this help message and exit

--sudo <sudo>
--url <url>
```

### 7.1.212 gitlab hook delete

```
usage: gitlab hook delete [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.213 gitlab hook get

```
usage: gitlab hook get [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.214 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**

### 7.1.215 gitlab issue

```
usage: gitlab issue [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.216 gitlab issue get

```
usage: gitlab issue get [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.217 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**

### 7.1.218 gitlab issues-statistics

```
usage: gitlab issues-statistics [-h] {get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.219 gitlab issues-statistics get

```
usage: gitlab issues-statistics get [-h] [--sudo SUDO]
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

### 7.1.220 gitlab key

```
usage: gitlab key [-h] {get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.221 gitlab key get

```
usage: gitlab key get [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.222 gitlab ldap-group

```
usage: gitlab ldap-group [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.223 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**

### 7.1.224 gitlab license

```
usage: gitlab license [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.225 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>

### 7.1.226 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**

## 7.1.227 gitlab merge-request

```
usage: gitlab merge-request [-h] {list} ...
```

**-h, --help**

show this help message and exit

## 7.1.228 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
```

### 7.1.229 gitlab namespace

```
usage: gitlab namespace [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.230 gitlab namespace get

```
usage: gitlab namespace get [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.231 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**

### 7.1.232 gitlab notification-settings

```
usage: gitlab notification-settings [-h] {get,update} ...
```

**-h, --help**  
show this help message and exit

### 7.1.233 gitlab notification-settings get

```
usage: gitlab notification-settings get [-h] [--sudo SUDO]
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

### 7.1.234 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>

### 7.1.235 gitlab pages-domain

```
usage: gitlab pages-domain [-h] {list} ...
```

**-h, --help**

show this help message and exit

### 7.1.236 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**

### 7.1.237 gitlab personal-access-token

```
usage: gitlab personal-access-token [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.238 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**

### 7.1.239 gitlab project

```
usage: gitlab project [-h]
                     {list,get,create,update,delete,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-project,artifacts,artifact}
                     ...
```

**-h, --help**  
show this help message and exit

### 7.1.240 gitlab project archive

```
usage: gitlab project archive [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.241 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>

### 7.1.242 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>

### 7.1.243 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]
```

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```

[--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]
[--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]

```

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[--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>
--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>

```

### 7.1.244 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>

```

### 7.1.245 gitlab project delete

```
usage: gitlab project delete [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.246 gitlab project delete-fork-relation

```
usage: gitlab project delete-fork-relation [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.247 gitlab project delete-merged-branches

```
usage: gitlab project delete-merged-branches [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.248 gitlab project get

```
usage: gitlab project get [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.249 gitlab project housekeeping

```
usage: gitlab project housekeeping [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.250 gitlab project languages

```
usage: gitlab project languages [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.251 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
```

### 7.1.252 gitlab project mirror-pull

```
usage: gitlab project mirror-pull [-h] --id ID
```

```
-h, --help
    show this help message and exit
--id <id>
```

### 7.1.253 gitlab project repository-archive

```
usage: gitlab project repository-archive [-h] --id ID [--sha SHA]
```

```
-h, --help
    show this help message and exit
--id <id>
--sha <sha>
```

### 7.1.254 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>
```

### 7.1.255 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>

### 7.1.256 gitlab project repository-contributors

```
usage: gitlab project repository-contributors [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.257 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>

### 7.1.258 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>

### 7.1.259 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>

### 7.1.260 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>

### 7.1.261 gitlab project snapshot

```
usage: gitlab project snapshot [-h] --id ID [--wiki WIKI]
```

**-h, --help**  
show this help message and exit

**--id** <id>

**--wiki** <wiki>

### 7.1.262 gitlab project star

```
usage: gitlab project star [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.263 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>

### 7.1.264 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>

### 7.1.265 gitlab project unarchive

```
usage: gitlab project unarchive [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.266 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>

## 7.1.267 gitlab project unstar

```
usage: gitlab project unstar [-h] --id ID
```

**-h, --help**

show this help message and exit

**--id <id>**

## 7.1.268 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]
```

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```

[--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]
[--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>
--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>

```

### 7.1.269 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>

```

### 7.1.270 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>

```

### 7.1.271 gitlab project-access-request

```
usage: gitlab project-access-request [-h] {list,create,delete,approve} ...
```

**-h, --help**  
show this help message and exit

### 7.1.272 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>

### 7.1.273 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>

### 7.1.274 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>

### 7.1.275 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**

### 7.1.276 gitlab project-additional-statistics

```
usage: gitlab project-additional-statistics [-h] {get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.277 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>

### 7.1.278 gitlab project-approval

```
usage: gitlab project-approval [-h] {get,update} ...
```

**-h, --help**  
show this help message and exit

### 7.1.279 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>

### 7.1.280 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\_re\_

**--merge-requests-author-approval** <merge\_requests\_author\_approval>

**--merge-requests-disable-committers-approval** <merge\_requests\_disable\_committers\_approval>

### 7.1.281 gitlab project-approval-rule

```
usage: gitlab project-approval-rule [-h] {list,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.282 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>

### 7.1.283 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>

### 7.1.284 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**

### 7.1.285 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>

### 7.1.286 gitlab project-audit-event

```
usage: gitlab project-audit-event [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.287 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>

### 7.1.288 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**

### 7.1.289 gitlab project-badge

```
usage: gitlab project-badge [-h] {list,get,create,update,delete,render} ...
```

**-h, --help**

show this help message and exit

### 7.1.290 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>

### 7.1.291 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>

### 7.1.292 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>

### 7.1.293 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**

### 7.1.294 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>

### 7.1.295 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>

### 7.1.296 gitlab project-board

```
usage: gitlab project-board [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.297 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>

### 7.1.298 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>

### 7.1.299 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>

### 7.1.300 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**

### 7.1.301 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>

### 7.1.302 gitlab project-board-list

```
usage: gitlab project-board-list [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.303 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>

### 7.1.304 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>

### 7.1.305 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>

### 7.1.306 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**

### 7.1.307 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>

### 7.1.308 gitlab project-branch

```
usage: gitlab project-branch [-h]
                             {list,get,create,delete,protect,unprotect} ...
```

**-h, --help**  
show this help message and exit

### 7.1.309 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>

### 7.1.310 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>

### 7.1.311 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>

### 7.1.312 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**

### 7.1.313 gitlab project-branch protect

```
usage: gitlab project-branch protect [-h] --project-id PROJECT_ID
                                     [--sudo SUDO] --name NAME
                                     [--developers-can-push DEVELOPERS_CAN_PUSH]
                                     [--developers-can-merge DEVELOPERS_CAN_MERGE]
```

**-h, --help**  
show this help message and exit

**--project-id** <project\_id>

**--sudo** <sudo>

**--name** <name>

**--developers-can-push** <developers\_can\_push>

**--developers-can-merge** <developers\_can\_merge>

### 7.1.314 gitlab project-branch unprotect

```
usage: gitlab project-branch unprotect [-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>

### 7.1.315 gitlab project-cluster

```
usage: gitlab project-cluster [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.316 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>



### 7.1.317 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>

### 7.1.318 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>

### 7.1.319 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**

### 7.1.320 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>

### 7.1.321 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

### 7.1.322 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>

### 7.1.323 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>

```

### 7.1.324 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>

```

### 7.1.325 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>

```

### 7.1.326 gitlab project-commit list

```
usage: gitlab project-commit 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

```

### 7.1.327 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>

### 7.1.328 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>

### 7.1.329 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>

### 7.1.330 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>

### 7.1.331 gitlab project-commit-comment

```
usage: gitlab project-commit-comment [-h] {list,create} ...
```

**-h, --help**  
show this help message and exit

### 7.1.332 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>

### 7.1.333 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**

### 7.1.334 gitlab project-commit-discussion

```
usage: gitlab project-commit-discussion [-h] {list,get,create} ...
```

**-h, --help**  
show this help message and exit

### 7.1.335 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>

### 7.1.336 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>

### 7.1.337 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
```

### 7.1.338 gitlab project-commit-discussion-note

```
usage: gitlab project-commit-discussion-note [-h]
                                             {get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.339 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>
```

### 7.1.340 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>
```

### 7.1.341 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>
```

### 7.1.342 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>
```



### 7.1.343 gitlab project-commit-status

```
usage: gitlab project-commit-status [-h] {list,create} ...
```

**-h, --help**  
show this help message and exit

### 7.1.344 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>

### 7.1.345 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**

### 7.1.346 gitlab project-custom-attribute

```
usage: gitlab project-custom-attribute [-h] {list,get,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.347 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>

### 7.1.348 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>

### 7.1.349 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**

### 7.1.350 gitlab project-deploy-token

```
usage: gitlab project-deploy-token [-h] {list,create,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.351 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>

### 7.1.352 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>

### 7.1.353 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**

### 7.1.354 gitlab project-deployment

```
usage: gitlab project-deployment [-h] {list,get,create,update} ...
```

**-h, --help**  
show this help message and exit

### 7.1.355 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>

### 7.1.356 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>

### 7.1.357 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**

### 7.1.358 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>

### 7.1.359 gitlab project-deployment-merge-request

```
usage: gitlab project-deployment-merge-request [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.360 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]
                                                    [--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
```

### 7.1.361 gitlab project-environment

```
usage: gitlab project-environment [-h]
                                   {list,get,create,update,delete,stop} ...
```

**-h, --help**  
show this help message and exit

### 7.1.362 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>

### 7.1.363 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>

### 7.1.364 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>



### 7.1.365 gitlab project-environment list

```
usage: gitlab project-environment 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**

### 7.1.366 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>

### 7.1.367 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>

### 7.1.368 gitlab project-event

```
usage: gitlab project-event [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.369 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**

### 7.1.370 gitlab project-export

```
usage: gitlab project-export [-h] {get,create,download} ...
```

**-h, --help**  
show this help message and exit

### 7.1.371 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>

### 7.1.372 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>

### 7.1.373 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>

### 7.1.374 gitlab project-file

```
usage: gitlab project-file [-h] {get,create,update,delete,raw,blame} ...
```

**-h, --help**  
show this help message and exit

### 7.1.375 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>

### 7.1.376 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>

### 7.1.377 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>

### 7.1.378 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>

### 7.1.379 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>

### 7.1.380 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>

### 7.1.381 gitlab project-fork

```
usage: gitlab project-fork [-h] {list,create} ...
```

**-h, --help**  
show this help message and exit

### 7.1.382 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>

### 7.1.383 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]
                                [->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

```

### 7.1.384 gitlab project-hook

```
usage: gitlab project-hook [-h] {list,get,create,update,delete} ...
```

```

-h, --help
    show this help message and exit

```

### 7.1.385 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>
```

### 7.1.386 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>
```

### 7.1.387 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>
```

### 7.1.388 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
```



### 7.1.389 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>

### 7.1.390 gitlab project-import

```
usage: gitlab project-import [-h] {get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.391 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>

### 7.1.392 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

### 7.1.393 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>

### 7.1.394 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>

### 7.1.395 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>

### 7.1.396 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>

### 7.1.397 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>

### 7.1.398 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

```

### 7.1.399 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>

```

### 7.1.400 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>

```

### 7.1.401 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>

```

### 7.1.402 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>

### 7.1.403 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>

### 7.1.404 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>

### 7.1.405 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>

### 7.1.406 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>

### 7.1.407 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>

### 7.1.408 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>

### 7.1.409 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>

#### 7.1.410 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>

#### 7.1.411 gitlab project-issue-award-emoji

```
usage: gitlab project-issue-award-emoji [-h] {list,get,create,delete} ...
```

**-h, --help**  
show this help message and exit



### 7.1.412 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>

### 7.1.413 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>

### 7.1.414 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>

### 7.1.415 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**

### 7.1.416 gitlab project-issue-discussion

```
usage: gitlab project-issue-discussion [-h] {list,get,create} ...
```

**-h, --help**  
show this help message and exit

### 7.1.417 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>

### 7.1.418 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>

### 7.1.419 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**

### 7.1.420 gitlab project-issue-discussion-note

```
usage: gitlab project-issue-discussion-note [-h]
                                           {get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.421 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>

### 7.1.422 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>

### 7.1.423 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>
```

### 7.1.424 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>
```

### 7.1.425 gitlab project-issue-link

```
usage: gitlab project-issue-link [-h] {list,create,delete} ...
```

```
-h, --help
    show this help message and exit
```

### 7.1.426 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>
```

### 7.1.427 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>

### 7.1.428 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**

### 7.1.429 gitlab project-issue-note

```
usage: gitlab project-issue-note [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.430 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>

```

### 7.1.431 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>

```

### 7.1.432 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>

```

### 7.1.433 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**

### 7.1.434 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>

### 7.1.435 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

### 7.1.436 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>



### 7.1.437 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>

### 7.1.438 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>

### 7.1.439 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**

#### 7.1.440 gitlab project-issue-resource-label-event

```
usage: gitlab project-issue-resource-label-event [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

#### 7.1.441 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>

#### 7.1.442 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**

### 7.1.443 gitlab project-issue-resource-milestone-event

```
usage: gitlab project-issue-resource-milestone-event [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.444 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>

### 7.1.445 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**

### 7.1.446 gitlab project-issue-resource-state-event

```
usage: gitlab project-issue-resource-state-event [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.447 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>

### 7.1.448 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**

### 7.1.449 gitlab project-issues-statistics

```
usage: gitlab project-issues-statistics [-h] {get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.450 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>

### 7.1.451 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

### 7.1.452 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>

### 7.1.453 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>

### 7.1.454 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>

### 7.1.455 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>

### 7.1.456 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>

### 7.1.457 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>

### 7.1.458 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>

### 7.1.459 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**

### 7.1.460 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>

### 7.1.461 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>

### 7.1.462 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>

### 7.1.463 gitlab project-key

```
usage: gitlab project-key [-h] {list,get,create,update,delete,enable} ...
```

**-h, --help**  
show this help message and exit

### 7.1.464 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>



### 7.1.465 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>

### 7.1.466 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>

### 7.1.467 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>

### 7.1.468 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**

### 7.1.469 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>

### 7.1.470 gitlab project-label

```
usage: gitlab project-label [-h]
                             {list,get,create,update,delete,subscribe,unsubscribe}
                             ...
```

**-h, --help**  
show this help message and exit

### 7.1.471 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>

### 7.1.472 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>

### 7.1.473 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>

### 7.1.474 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**

### 7.1.475 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>

### 7.1.476 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>

### 7.1.477 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>

### 7.1.478 gitlab project-member

```
usage: gitlab project-member [-h] {list,get,create,update,delete,all} ...
```

**-h, --help**  
show this help message and exit

### 7.1.479 gitlab project-member all

```
usage: gitlab project-member all [-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>

### 7.1.480 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>

### 7.1.481 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>

### 7.1.482 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>

### 7.1.483 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**

### 7.1.484 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>

### 7.1.485 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,pipelines,cancel-merge-when-pipeline-succeeds,closes-issues,
                                     ↪commits,changes,approve,unapprove,rebase,merge}
                                     ...
```

**-h, --help**  
show this help message and exit

### 7.1.486 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>

### 7.1.487 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>

### 7.1.488 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>

### 7.1.489 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>

### 7.1.490 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>

### 7.1.491 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>

### 7.1.492 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]
```

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`↪MAINTAINER_TO_PUSH]``[--allow-maintainer-to-push ALLOW_``[--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>

### 7.1.493 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>

### 7.1.494 gitlab project-merge-request get

```
usage: gitlab project-merge-request 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>

### 7.1.495 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

```

### 7.1.496 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>

```

### 7.1.497 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>

```

### 7.1.498 gitlab project-merge-request pipelines

```
usage: gitlab project-merge-request pipelines [-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>

### 7.1.499 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>

### 7.1.500 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>

### 7.1.501 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>

### 7.1.502 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>

### 7.1.503 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>

### 7.1.504 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>

### 7.1.505 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>

### 7.1.506 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>

### 7.1.507 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>

### 7.1.508 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]
```

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`↪MAINTAINER_TO_PUSH]``[--discussion-locked DISCUSSION_LOCKED]``[--allow-maintainer-to-push ALLOW_``[--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>

### 7.1.509 gitlab project-merge-request-approval

`usage: gitlab project-merge-request-approval [-h] {get,update} ...`**-h, --help**

show this help message and exit

### 7.1.510 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>

### 7.1.511 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>

### 7.1.512 gitlab project-merge-request-approval-rule

```
usage: gitlab project-merge-request-approval-rule [-h]
                                                    {list,create,update} ...
```

**-h, --help**  
show this help message and exit

### 7.1.513 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>

```

### 7.1.514 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

```

### 7.1.515 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>
```

### 7.1.516 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

### 7.1.517 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>
```

### 7.1.518 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>
```

### 7.1.519 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>

### 7.1.520 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**

### 7.1.521 gitlab project-merge-request-diff

```
usage: gitlab project-merge-request-diff [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.522 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>

### 7.1.523 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**

### 7.1.524 gitlab project-merge-request-discussion

```
usage: gitlab project-merge-request-discussion [-h]
                                                {list,get,create,update} ...
```

**-h, --help**  
show this help message and exit

### 7.1.525 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>

### 7.1.526 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>

### 7.1.527 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**

### 7.1.528 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>

### 7.1.529 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

### 7.1.530 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>

### 7.1.531 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>

### 7.1.532 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>

### 7.1.533 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>
```

### 7.1.534 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

### 7.1.535 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>
```

### 7.1.536 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>
```



### 7.1.537 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>

### 7.1.538 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**

### 7.1.539 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>

### 7.1.540 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

### 7.1.541 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>

### 7.1.542 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>

### 7.1.543 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>

### 7.1.544 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**

### 7.1.545 gitlab project-merge-request-pipeline

```
usage: gitlab project-merge-request-pipeline [-h] {list,create} ...
```

**-h, --help**  
show this help message and exit

### 7.1.546 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>

### 7.1.547 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**

### 7.1.548 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

### 7.1.549 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>

### 7.1.550 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**

### 7.1.551 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

### 7.1.552 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>

### 7.1.553 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**

### 7.1.554 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

### 7.1.555 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>

### 7.1.556 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
```

### 7.1.557 gitlab project-milestone

```
usage: gitlab project-milestone [-h]
                                {list,get,create,update,delete,issues,merge-requests}
                                ...
```

**-h, --help**  
show this help message and exit

### 7.1.558 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>
```

### 7.1.559 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>
```

### 7.1.560 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>

### 7.1.561 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>

### 7.1.562 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**



### 7.1.563 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>

### 7.1.564 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>

### 7.1.565 gitlab project-note

```
usage: gitlab project-note [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.566 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>

### 7.1.567 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**

### 7.1.568 gitlab project-notification-settings

```
usage: gitlab project-notification-settings [-h] {get,update} ...
```

**-h, --help**  
show this help message and exit

### 7.1.569 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>

## 7.1.570 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>

### 7.1.571 gitlab project-package

```
usage: gitlab project-package [-h] {list,get,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.572 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>

### 7.1.573 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>

### 7.1.574 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
```

### 7.1.575 gitlab project-package-file

```
usage: gitlab project-package-file [-h] {list} ...
```

```
-h, --help
    show this help message and exit
```

### 7.1.576 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
```

### 7.1.577 gitlab project-pages-domain

```
usage: gitlab project-pages-domain [-h] {list,get,create,update,delete} ...
```

```
-h, --help
    show this help message and exit
```

### 7.1.578 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>

### 7.1.579 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>

### 7.1.580 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>

### 7.1.581 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**

### 7.1.582 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>

### 7.1.583 gitlab project-pipeline

```
usage: gitlab project-pipeline [-h] {list,get,create,delete,cancel,retry} ...
```

**-h, --help**  
show this help message and exit

### 7.1.584 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>

### 7.1.585 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>

### 7.1.586 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>

### 7.1.587 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>

### 7.1.588 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

```

### 7.1.589 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>

```

### 7.1.590 gitlab project-pipeline-bridge

```

usage: gitlab project-pipeline-bridge [-h] {list} ...

```

```

-h, --help
    show this help message and exit

```

### 7.1.591 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

```

### 7.1.592 gitlab project-pipeline-job

```
usage: gitlab project-pipeline-job [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.593 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**

### 7.1.594 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

### 7.1.595 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>

```

### 7.1.596 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>

```

### 7.1.597 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>

```

### 7.1.598 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

```

### 7.1.599 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>

### 7.1.600 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>

### 7.1.601 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>

### 7.1.602 gitlab project-pipeline-schedule-variable

```
usage: gitlab project-pipeline-schedule-variable [-h]
                                                {create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.603 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>

### 7.1.604 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>

### 7.1.605 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>

### 7.1.606 gitlab project-pipeline-test-report

```
usage: gitlab project-pipeline-test-report [-h] {get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.607 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>

### 7.1.608 gitlab project-pipeline-variable

```
usage: gitlab project-pipeline-variable [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.609 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**

### 7.1.610 gitlab project-protected-branch

```
usage: gitlab project-protected-branch [-h] {list,get,create,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.611 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>
```

### 7.1.612 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>
```

### 7.1.613 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>
```

### 7.1.614 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
```



### 7.1.615 gitlab project-protected-tag

```
usage: gitlab project-protected-tag [-h] {list,get,create,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.616 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>

### 7.1.617 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>

### 7.1.618 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>

### 7.1.619 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**

### 7.1.620 gitlab project-push-rules

```
usage: gitlab project-push-rules [-h] {get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.621 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>

### 7.1.622 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>

### 7.1.623 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>

### 7.1.624 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>

### 7.1.625 gitlab project-registry-repository

```
usage: gitlab project-registry-repository [-h] {list,delete} ...
```

**-h, --help**

show this help message and exit

### 7.1.626 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>

### 7.1.627 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**

### 7.1.628 gitlab project-registry-tag

```
usage: gitlab project-registry-tag [-h] {list,get,delete,delete-in-bulk} ...
```

**-h, --help**

show this help message and exit

### 7.1.629 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>

### 7.1.630 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 NAME_REGEX]
                                                    [--keep-n KEEP_N]
                                                    [--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** <name\_regex>

**--keep-n** <keep\_n>

**--older-than** <older\_than>

### 7.1.631 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>

### 7.1.632 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**

### 7.1.633 gitlab project-release

```
usage: gitlab project-release [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.634 gitlab project-release create

```
usage: gitlab project-release create [-h] [--sudo SUDO] --project-id
                                       PROJECT_ID --name NAME --tag-name
                                       TAG_NAME --description DESCRIPTION
                                       [--ref REF] [--assets ASSETS]
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--project-id** <project\_id>

**--name** <name>

**--tag-name** <tag\_name>

**--description** <description>

**--ref** <ref>

**--assets** <assets>

### 7.1.635 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>

### 7.1.636 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>

### 7.1.637 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**

### 7.1.638 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>
```

### 7.1.639 gitlab project-release-link

```
usage: gitlab project-release-link [-h] {list,get,create,update,delete} ...
```

```
-h, --help
    show this help message and exit
```

### 7.1.640 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>
```

### 7.1.641 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>

### 7.1.642 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>

### 7.1.643 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**

### 7.1.644 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>
```

### 7.1.645 gitlab project-remote-mirror

```
usage: gitlab project-remote-mirror [-h] {list,create,update} ...
```

**-h, --help**  
show this help message and exit

### 7.1.646 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>

### 7.1.647 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**

### 7.1.648 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>

### 7.1.649 gitlab project-runner

```
usage: gitlab project-runner [-h] {list,get,create,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.650 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>

### 7.1.651 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>

### 7.1.652 gitlab project-runner get

```
usage: gitlab project-runner 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>

### 7.1.653 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**

### 7.1.654 gitlab project-service

```
usage: gitlab project-service [-h] {list,get,update,delete,available} ...
```

**-h, --help**  
show this help message and exit

### 7.1.655 gitlab project-service available

```
usage: gitlab project-service available [-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>

### 7.1.656 gitlab project-service delete

```
usage: gitlab project-service 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>

### 7.1.657 gitlab project-service get

```
usage: gitlab project-service 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>

### 7.1.658 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**

### 7.1.659 gitlab project-service update

```
usage: gitlab project-service 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>

### 7.1.660 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

### 7.1.661 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>

### 7.1.662 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>

### 7.1.663 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>

### 7.1.664 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>

### 7.1.665 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**

### 7.1.666 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>
```

### 7.1.667 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>
```

### 7.1.668 gitlab project-snippet-award-emoji

```
usage: gitlab project-snippet-award-emoji [-h] {list,get,create,delete} ...
```

```
-h, --help
    show this help message and exit
```

### 7.1.669 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>
```



### 7.1.670 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>

### 7.1.671 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>

### 7.1.672 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**

### 7.1.673 gitlab project-snippet-discussion

```
usage: gitlab project-snippet-discussion [-h] {list,get,create} ...
```

**-h, --help**  
show this help message and exit

### 7.1.674 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>

### 7.1.675 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>

### 7.1.676 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
```

### 7.1.677 gitlab project-snippet-discussion-note

```
usage: gitlab project-snippet-discussion-note [-h]
                                              {get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.678 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>
```

### 7.1.679 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>

### 7.1.680 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>

### 7.1.681 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>

### 7.1.682 gitlab project-snippet-note

```
usage: gitlab project-snippet-note [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.683 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>

### 7.1.684 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>

### 7.1.685 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>

### 7.1.686 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**

### 7.1.687 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>

### 7.1.688 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

### 7.1.689 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>

### 7.1.690 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>

### 7.1.691 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>

### 7.1.692 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**

### 7.1.693 gitlab project-tag

```
usage: gitlab project-tag [-h]
                           {list,get,create,delete,set-release-description} ...
```

**-h, --help**  
show this help message and exit

### 7.1.694 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>



### 7.1.695 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>

### 7.1.696 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>

### 7.1.697 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**

### 7.1.698 gitlab project-tag set-release-description

```
usage: gitlab project-tag set-release-description [-h] --project-id PROJECT_ID
                                                  [--sudo SUDO] --name NAME
                                                  --description DESCRIPTION
```

**-h, --help**  
show this help message and exit

**--project-id** <project\_id>

**--sudo** <sudo>  
**--name** <name>  
**--description** <description>

### 7.1.699 gitlab project-trigger

```
usage: gitlab project-trigger [-h]
                               {list,get,create,update,delete,take-ownership}
                               ...
```

**-h, --help**  
show this help message and exit

### 7.1.700 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>

### 7.1.701 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>

### 7.1.702 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>

### 7.1.703 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**

### 7.1.704 gitlab project-trigger take-ownership

```
usage: gitlab project-trigger 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>

### 7.1.705 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>

### 7.1.706 gitlab project-user

```
usage: gitlab project-user [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.707 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**

### 7.1.708 gitlab project-variable

```
usage: gitlab project-variable [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.709 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>

### 7.1.710 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>

### 7.1.711 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>

### 7.1.712 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**

### 7.1.713 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>

### 7.1.714 gitlab project-wiki

```
usage: gitlab project-wiki [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.715 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>

### 7.1.716 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>

### 7.1.717 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>

### 7.1.718 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**

### 7.1.719 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>

### 7.1.720 gitlab runner

```
usage: gitlab runner [-h] {list,get,create,update,delete,all,verify} ...
```

**-h, --help**  
show this help message and exit

### 7.1.721 gitlab runner all

```
usage: gitlab runner all [-h] --id ID [--scope SCOPE]
```

**-h, --help**  
show this help message and exit

**--id** <id>

**--scope** <scope>

### 7.1.722 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>

```

### 7.1.723 gitlab runner delete

```
usage: gitlab runner delete [-h] [--sudo SUDO] --id ID
```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--id <id>

```

### 7.1.724 gitlab runner get

```
usage: gitlab runner get [-h] [--sudo SUDO] --id ID
```

```

-h, --help
    show this help message and exit
--sudo <sudo>
--id <id>

```

### 7.1.725 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

```

### 7.1.726 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>

### 7.1.727 gitlab runner verify

```
usage: gitlab runner verify [-h] --id ID --token TOKEN
```

**-h, --help**

show this help message and exit

**--id** <id>

**--token** <token>

### 7.1.728 gitlab runner-job

```
usage: gitlab runner-job [-h] {list} ...
```

**-h, --help**

show this help message and exit

### 7.1.729 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**

### 7.1.730 gitlab snippet

```
usage: gitlab snippet [-h]
                      {list,get,create,update,delete,user-agent-detail,content,public}
                      ...
```

**-h, --help**  
show this help message and exit

### 7.1.731 gitlab snippet content

```
usage: gitlab snippet content [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.732 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>

### 7.1.733 gitlab snippet delete

```
usage: gitlab snippet delete [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.734 gitlab snippet get

```
usage: gitlab snippet get [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.735 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**

### 7.1.736 gitlab snippet public

```
usage: gitlab snippet public [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.737 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>

### 7.1.738 gitlab snippet user-agent-detail

```
usage: gitlab snippet user-agent-detail [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.739 gitlab todo

```
usage: gitlab todo [-h] {list,delete,mark-as-done,mark-all-as-done} ...
```

**-h, --help**  
show this help message and exit

### 7.1.740 gitlab todo delete

```
usage: gitlab todo delete [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.741 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**

### 7.1.742 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>

### 7.1.743 gitlab todo mark-as-done

```
usage: gitlab todo mark-as-done [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.744 gitlab user

```
usage: gitlab user [-h]
                  {list,get,create,update,delete,block,unblock,
↪ deactivate,activate}
                  ...
```

**-h, --help**  
show this help message and exit

### 7.1.745 gitlab user activate

```
usage: gitlab user activate [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.746 gitlab user block

```
usage: gitlab user block [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.747 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>
```

### 7.1.748 gitlab user deactivate

```
usage: gitlab user deactivate [-h] --id ID
```

```
-h, --help
    show this help message and exit
--id <id>
```

### 7.1.749 gitlab user delete

```
usage: gitlab user delete [-h] [--sudo SUDO] --id ID
```

```
-h, --help
    show this help message and exit
--sudo <sudo>
--id <id>
```



### 7.1.750 gitlab user follow

```
usage: gitlab user follow [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.751 gitlab user get

```
usage: gitlab user get [-h] [--sudo SUDO] --id ID
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--id** <id>

### 7.1.752 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**

### 7.1.753 gitlab user unblock

```
usage: gitlab user unblock [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.754 gitlab user unfollow

```
usage: gitlab user unfollow [-h] --id ID
```

**-h, --help**  
show this help message and exit

**--id** <id>

### 7.1.755 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]
                        [--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>

```

### 7.1.756 gitlab user-activities

```
usage: gitlab user-activities [-h] {list} ...
```

```

-h, --help
    show this help message and exit

```

### 7.1.757 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

```

### 7.1.758 gitlab user-custom-attribute

```
usage: gitlab user-custom-attribute [-h] {list,get,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.759 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>

### 7.1.760 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>

### 7.1.761 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**

### 7.1.762 gitlab user-email

```
usage: gitlab user-email [-h] {list,get,create,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.763 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>

### 7.1.764 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>

### 7.1.765 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>

### 7.1.766 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**

### 7.1.767 gitlab user-event

```
usage: gitlab user-event [-h] {list} ...
```

**-h, --help**  
show this help message and exit

### 7.1.768 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**

### 7.1.769 gitlab user-gpg-key

```
usage: gitlab user-gpg-key [-h] {list,get,create,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.770 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>

### 7.1.771 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>

### 7.1.772 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>

### 7.1.773 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**

### 7.1.774 gitlab user-impersonation-token

```
usage: gitlab user-impersonation-token [-h] {list,get,create,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.775 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>

### 7.1.776 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>



### 7.1.777 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>

### 7.1.778 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**

### 7.1.779 gitlab user-key

```
usage: gitlab user-key [-h] {list,create,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.780 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>

### 7.1.781 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>

### 7.1.782 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**

### 7.1.783 gitlab user-membership

```
usage: gitlab user-membership [-h] {list,get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.784 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>

### 7.1.785 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**

### 7.1.786 gitlab user-project

```
usage: gitlab user-project [-h] {list,create} ...
```

**-h, --help**  
show this help message and exit

### 7.1.787 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]
                                   [--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>
--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>
```

### 7.1.788 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

```

### 7.1.789 gitlab user-status

```
usage: gitlab user-status [-h] {get} ...
```

**-h, --help**  
show this help message and exit

### 7.1.790 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>

### 7.1.791 gitlab variable

```
usage: gitlab variable [-h] {list,get,create,update,delete} ...
```

**-h, --help**  
show this help message and exit

### 7.1.792 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>

### 7.1.793 gitlab variable delete

```
usage: gitlab variable delete [-h] [--sudo SUDO] --key KEY
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--key** <key>

### 7.1.794 gitlab variable get

```
usage: gitlab variable get [-h] [--sudo SUDO] --key KEY
```

**-h, --help**  
show this help message and exit

**--sudo** <sudo>

**--key** <key>

### 7.1.795 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**

### 7.1.796 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>





## RELEASE NOTES

This page describes important changes between python-gitlab releases.

### 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.

### 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.

### 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.

## 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.

## 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.

## 8.6 Changes from 1.2 to 1.3

- `gitlab.Gitlab` objects can be used as context managers in a `with` block.

## 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

## 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()
```

## 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.

## 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.

## 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](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](http://python-gitlab.readthedocs.io/en/stable/gl_objects/deploy_keys.html)

Related issue: <https://github.com/python-gitlab/python-gitlab/issues/212>

## CHANGELOG - MOVED TO GITHUB RELEASES

The changes of newer versions can be found at <https://github.com/python-gitlab/python-gitlab/releases>

### 9.1 Version 1.9.0 - 2019-06-19

#### 9.1.1 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

#### 9.1.2 Bug Fixes

- convert # to %23 in URLs
- pep8 errors
- use python2 compatible syntax for super
- Make MemberManager.all() return a list of objects
- %d replaced by %s
- 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

## 9.2 Version 1.8.0 - 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

## 9.3 Version 1.7.0 - 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

## 9.4 Version 1.6.0 - 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

## 9.5 Version 1.5.1 - 2018-06-23

- Fix the ProjectPipelineJob base class (regression)

## 9.6 Version 1.5.0 - 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



## 9.7 Version 1.4.0 - 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`

## 9.8 Version 1.3.0 - 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

## 9.9 Version 1.2.0 - 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

## 9.10 Version 1.1.0 - 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

## 9.11 Version 1.0.2 - 2017-09-29

- [docs] remove example usage of submanagers
- Properly handle the labels attribute in ProjectMergeRequest
- ProjectFile: handle / in path for delete() and save()

## 9.12 Version 1.0.1 - 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

## 9.13 Version 1.0.0 - 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()

## 9.14 Version 0.21.2 - 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

## 9.15 Version 0.21.1 - 2017-05-25

- Fix the manager name for jobs in the Project class
- Fix the docs

## 9.16 Version 0.21 - 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

## 9.17 Version 0.20 - 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)

## 9.18 Version 0.19 - 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

## 9.19 Version 0.18 - 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

## 9.20 Version 0.17 - 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*

## 9.21 Version 0.16 - 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()

## 9.22 Version 0.15.1 - 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



## 9.23 Version 0.15 - 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

## 9.24 Version 0.14 - 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

## 9.25 Version 0.13 - 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()

## 9.26 Version 0.12.2 - 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

## 9.27 Version 0.12.1 - 2016-02-03

- Fix a broken upload to pypi

## 9.28 Version 0.12 - 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

## 9.29 Version 0.11.1 - 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

## 9.30 Version 0.11 - 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

## 9.31 Version 0.10 - 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)

## 9.32 Version 0.9.2 - 2015-07-11

- CLI: fix the update and delete subcommands (#62)

## 9.33 Version 0.9.1 - 2015-05-15

- Fix the setup.py script

## 9.34 Version 0.9 - 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`

## 9.35 Version 0.8 - 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

## 9.36 Version 0.7 - 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)

## 9.37 Version 0.6 - 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

## 9.38 Version 0.5 - 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

## 9.39 Version 0.4 - 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

## 9.40 Version 0.3 - 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.

## 9.41 Version 0.2 - 2013-08-08

- provide a pip requirements.txt
- drop some debug statements

## 9.42 Version 0.1 - 2013-07-08

- Initial release



## SWITCHING TO GITLAB API V4

GitLab provides a new API version (v4) since its 9.0 release. `python-gitlab` provides support for this new version, but the python API has been modified to solve some problems with the existing one.

GitLab does not support the v3 API anymore, and you should consider switching to v4 if you use a recent version of GitLab ( $\geq 9.0$ ), or if you use <https://gitlab.com>.

### 10.1 Using the v4 API

`python-gitlab` uses the v4 API by default since the 1.3.0 release. If you are migrating from an older release, make sure that you remove the `api_version` definition in you constructors and configuration file:

The following examples are **not valid** anymore:

```
gl = gitlab.Gitlab(..., api_version=3)
```

```
[my_gitlab]
...
api_version = 3
```

### 10.2 Changes between v3 and v4 API

For a list of GitLab (upstream) API changes, see [https://docs.gitlab.com/ce/api/v3\\_to\\_v4.html](https://docs.gitlab.com/ce/api/v3_to_v4.html).

The `python-gitlab` API reflects these changes. But also consider the following important changes in the python API:

- managers and objects don't inherit from `GitlabObject` and `BaseManager` anymore. They inherit from *`RESTManager`* and *`RESTObject`*.
- You should only use the managers to perform CRUD operations.

The following v3 code:

```
gl = gitlab.Gitlab(...)
p = Project(gl, project_id)
```

Should be replaced with:

```
gl = gitlab.Gitlab(...)
p = gl.projects.get(project_id)
```

- Listing methods (`manager.list()` for instance) can now return generators (*RESTObjectList*). They handle the calls to the API when needed to fetch new items.

By default you will still get lists. To get generators use `as_list=False`:

```
all_projects_g = gl.projects.list(as_list=False)
```

- The “nested” managers (for instance `gl.project_issues` or `gl.group_members`) are not available anymore. Their goal was to provide a direct way to manage nested objects, and to limit the number of needed API calls.

To limit the number of API calls, you can now use `get()` methods with the `lazy=True` parameter. This creates shallow objects that provide usual managers.

The following v3 code:

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

Should be replaced with:

```
issues = gl.projects.get(project_id, lazy=True).issues.list()
```

This will make only one API call, instead of two if `lazy` is not used.

- The following *Gitlab* methods should not be used anymore for v4:
  - `list()`
  - `get()`
  - `create()`
  - `update()`
  - `delete()`
- If you need to perform HTTP requests to the GitLab server (which you shouldn't), you can use the following *Gitlab* methods:
  - `http_request`
  - `http_get`
  - `http_list`
  - `http_post`
  - `http_put`
  - `http_delete`

## INDICES AND TABLES

- `genindex`
- `modindex`
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