

Contributing on GitLab



Projects are still required to develop and review their code through Gerrit until Anuket is able to fully move to Gitlab later this year (2021). Gitlab-CI can be used for post-merge CI jobs, but verification of patchsets currently still require JJB.

This guide is still under development [Trevor Bramwell](#)

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Contributor Roles

There are 3 project roles in Anuket:

1. Project Technical Leads (PTLs) - In charge of the technical direction of the project (also defined as a committers)
2. Committers - Write, review, and approve changes to the project
3. Contributors - Write and review changes to the project

To maintain these roles in Gitlab the following structure is in place:

- The default branch (master or main) is [protected](#), and requires CODEOWNER [approval](#) to merge changes.
- Committers are listed in the CODEOWNERS file as reviewers for all files

CODEOWNERS

```
* @committer1 @committer2 ...
```

- All active contributors (including committers) are given [Developer](#) level permissions on the Anuket group.

Note: Users are not granted Maintainer rights as that would allow them to remove branch protections, force push, and modify license policies. Some maintainer capabilities will be available to developers through the LFX [project control center](#) at a future date.

Contribution Process

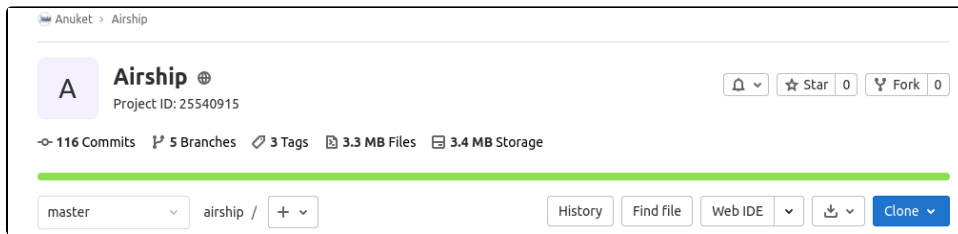
There are two main workflows when contributing code on GitLab: branching and forking. Which one you use will depend on your need and level of access to a project. In all cases the fork workflow is preferred.

The first step is to create a GitLab [account](#). You'll need to have verify your account with a [credit card](#) before CI jobs can be ran in your personal or project forks.

If you'd prefer not to have to add a credit card you can click "Request Access" on the [Anuket](#) group, after creating an account. Once your access is approved, you can utilize CI through merge requests (MRs) against Anuket projects.

GitLab Fork Workflow

1. Fork the project
 - a. After logging in, click on the "Fork" link at the top right of the project page.

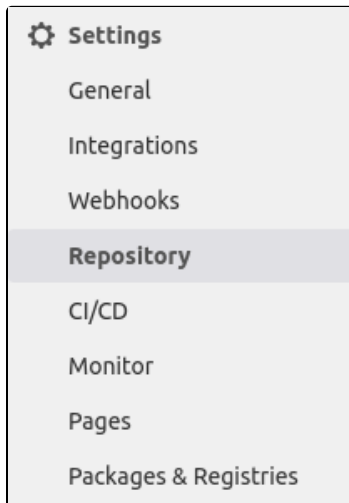


- b. Specify the Project name, Group (or user account) the project should be under, and the name for the fork as Project slug. Set the Visibility level to Public, and click "Fork project"

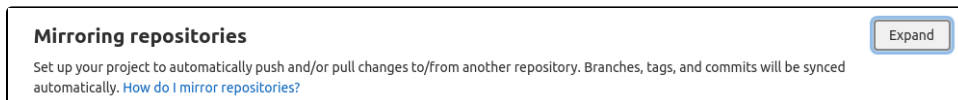
2. Setup mirroring - This will keep the project's default branch up-to-date in your fork so you can always start your work from the most recent changes to the project.

Alternatively you may manage this yourself by adding an extra 'upstream' git remote pointed at the original project, and routinely running 'git pull upstream/master', 'git push origin master' to update your fork.

- a. Open **Settings Repository** from the project sidebar.



- b. Expand the "Mirroring repositories" section



- c. Enter the Git Repository URL starting with `https://gitlab.com/anuket` and ending with `/<project>.git`

Collapse

Mirroring repositories

Set up your project to automatically push and/or pull changes to/from another repository. Branches, tags, and commits will be synced automatically. [How do I mirror repositories?](#)

Git repository URL

https://gitlab.com/anuket/airship.git

The repository must be accessible over http:// , https:// , ssh:// or git:// .

When using the http:// or https:// protocols, provide the exact URL to the repository. HTTP redirects will not be followed.

Include the username in the URL if required: https://username@gitlab.company.com/group/project.git .

The update action will time out after 180 minutes. For big repositories, use a clone/push combination.

Git LFS objects will be synced if LFS is [enabled for the project](#). Push mirrors will **not** sync LFS objects over SSH.

In case of pull mirroring, your user will be the author of all events in the activity feed that are the result of an update, like new branches being created or new commits being pushed to existing branches.

Mirror direction

Pull

Authentication method

Password

Password

Mirror user

Trevor Bramwell

You will be the author of all events in the activity feed that are the result of an update, like new branches being created or new commits being pushed to existing branches.

☒ Mirror only protected branches

If enabled, only protected branches will be mirrored. [Learn more.](#)

Mirror repository

There is a "Clone" drop down on the fork project page which provides git URLs to clone over SSH or HTTPS (to be passed to *git clone*) or magic links to clone the project through Visual Studio Code.

A

Airship

Project ID: 28101610

🔔

☆ Star 0

🍴 Fork 0

🔗 116 Commits

🌿 5 Branches

📁 3 Tags

📄 0 Bytes Files

💾 0 Bytes Storage

Forked from [Anuket / Airship](#)

master

airship /

+

History

Find file

Web IDE

📄

Clone

🎮

Replace OPNFV with Anuket in release notes

James Gu authored 6 days ago

📁 Upload File

📄 Add README

📄 Add LICENSE

📄 Add CHANGELOG

📄 Add CO

📄 Add Kubernetes cluster

📄 Set up CI/CD

⚙️ Configure Integrations

Name	Last commit
docs	Replace OPNFV with Anuket in release notes

Clone with SSH

git@gitlab.com:bramweltci/airship

Clone with HTTPS

https://gitlab.com/bramweltci/airship

Open in your IDE

Visual Studio Code (SSH)

Visual Studio Code (HTTPS)

```
git checkout -b <mybranchname>
```

Remember to include a 'Signed-off-by' line on your commits (*git commit -s* if on the command line).

Edit file

Write
Preview changes

V master | tools/test.sh

No wrap

```

1 #!/bin/bash
2
3 set -e
4
5 # Implements run of the OPNFV functional tests (FuncTest)
6 # https://wiki.opnfv.org/pages/viewpage.action?pageId=29698314
7
8 export FUNCTEST_CACHE=${FUNCTEST_CACHE:-"${HOME}/.opnfv/funcTest"}
9 export SITE=${2:-"intel-pod17"}
10
11 cp tools/files/tempest_conf.yaml ${FUNCTEST_CACHE}
12 cp tools/files/rally_blacklist.yaml ${FUNCTEST_CACHE}
13 cp tools/files/tempest_blacklist.yaml ${FUNCTEST_CACHE}
14 TMP_DIR=$(mktemp -d)
15 cd $TMP_DIR
16
17 trap "{ sudo rm -rf $TMP_DIR; }" EXIT
18
19
20 cat > env << EOF
21 S3_ENDPOINT_URL=https://storage.googleapis.com
22 S3_DST_URL=s3://artifacts.opnfv.org/xtesting/test
23 HTTP_DST_URL=http://artifacts.opnfv.org/xtesting/test
24 TEST_DB_URL=http://testresults.opnfv.org/test/api/v1/results
25 TEST_DB_EXT_URL=http://testresults.opnfv.org/test/api/v1/results
26 EXTERNAL_NETWORK=public

```

Commit message
Update test.sh

Target Branch
my-first-change

☒ Start a new merge request with these changes

Commit changes
Cancel

- Push the branch to your fork
- There will be a link returned in the console from running `git push`, which when clicked will automatically open a merge request to the upstream project.

```

$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 731 bytes | 731.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for test-commit, visit:
remote: https://gitlab.com/bramwelt-ci/airship/-/merge_requests/new?merge_request%5Bsource_branch%5D=test-commit
remote:
To gitlab.com:bramwelt-ci/airship
* [new branch]      test-commit -> test-commit

```

You can also create the merge request manually from the Merge Request page of your fork.

bramwelt-ci > Airship > Merge requests > New

New merge request

Source branch

bramwelt-ci/airship
airship2

Merge "Enable Neutron QOS extension"
James Gu authored 1 year ago
c2cae74f

Target branch

anuket/airship
master

Replace OPNFV with Anuket in release notes ...
James Gu authored 3 weeks ago
f9925aff

Compare branches and continue

- Fill out the details of your merge request.

If you have multiple commits, write a detailed explanation about what you're asking to be merged in. You can also add "Draft: " to the title to signal that changes are still being made.

- Wait for CI to pass and a committer (identified by the CODEOWNERS file) to review and merge.

Requires approval from Code Owners.

Collapse

Approvers	Approvals	Commented by	Approved by
Code Owners			
*	0 of 1		

Merge

You can only merge once this merge request is approved.

If the project is utilizing hardware for their CI, a developer will need to approve your pipeline to run before it is tested.

GitLab Branch Workflow

1. Clone the project
2. edit, git add, commit
Write you change (remember to include ``-s`` to sign off commits: ``git commit -s``)
3. git push
4. Click the link from the message to open a merge request to the repository
5. If you have multiple commits, write a detailed explanation about what you're asking to be merged in.
Set the change to "Draft" if its still being worked on.
6. Wait for CI to pass and a CODEOWNER to review and merge.

Gitlab-CI

There is a lot of documentation available through Gitlab for building and maintaining *.gitlab-ci.yml* files.

Here are some useful references:

- .gitlab-ci.yml file [syntax](#)
- Gitlab's CI/CD [examples](#), and [templates](#)
- Environment [variables](#) available to jobs

The Releng project also maintains some of [templates](#) for projects to use; Projects are under no obligation or requirement to use the templates provided by the Releng project.

Help can always be requested through a [support ticket](#) with the Linux Foundation release engineering team if projects need assistance configuring or debugging their CI jobs or pipelines.

These examples can be used to include the templates in your own project's *.gitlab-ci.yml*

Docker

```
---
include:
  - project: anuket/releng
    file: '/gitlab-templates/Docker.gitlab-ci.yml'
```

ReadTheDocs (RTD)

```
---
include:
  - project: anuket/releng
    file: '/gitlab-templates/RTD.gitlab-ci.yml'
```

Google Storage (GSutil install)

```
---
include:
  - project: anuket/releng
    file: '/gitlab-templates/GoogleStorage.gitlab-ci.yml'
```

Scheduled Jobs

Unlike Jenkins, Gitlab-CI jobs that run on an interval or [schedule](#) are configured through the UI, not in `.gitlab-ci.yml`. Any job that does not state it should be excluded from schedules will be triggered when a scheduled pipeline runs. This also means there is no way to set schedules for individual jobs (only pipelines) through the UI. One way around this is by specifying a job should be triggered on scheduled runs, but only if a specific variable is defined. Here's an example of the rule for such a job:

```
myscheduledjob:
  rules:
    - if: $CI_PIPELINE_SOURCE == "schedule" && $MY_SCHEDULE == "true"
```

Rules: "when: never"

When using [if](#) rules, a job will never be added if the only rules listed run "when: never" - There must always be a statement that specifies when the job is to be included in the pipeline in order for the job to run.

Hosted Runners (External Hardware builds)

If a projects needs go beyond what Gitlab-CI shared runners provide, they can request hardware they have access to be added as a hosted runner to their project by creating a Linux Foundation [support request](#). The Linux Foundation release engineering team will the provide the requester with a GitLab runner token they can used to enroll the new hardware.

New Project Creation

After a new project has been reviewed and approved by the TSC, they can request their project be created on Gitlab through the Linux Foundation [support site](#).