

Usage SwarmLab gitea!

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This HowTo teaches you how to Use SwarmLab gitea.

[Git](#) is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

1. create a new repository

Open [Swarmlab Gitea](#)

Use any web browser on your computer to join

1.1. Sign In

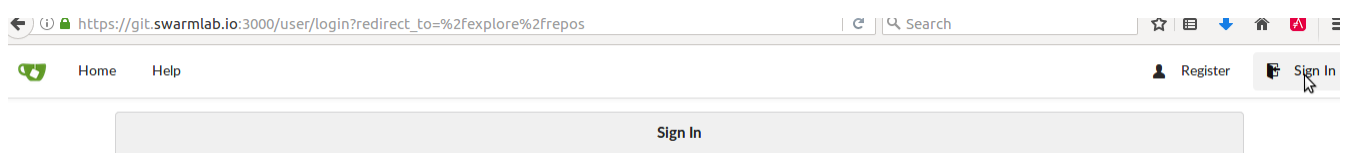


Figure 1. Click on "Sign-in"

Proxy Error



Proxy Error

The proxy server received an invalid response from an upstream server.
The proxy server could not handle the request GET /user/login.

Reason: Error reading from remote server

Apache/2.4.25 (Debian) Server at git.swarmlab.io Port 3000

Reload Page!!!

1.2. New Repository

1.2.1. step 1

[SwarmLab New Repository] | *./repo-1.png*

Figure 2. New Repository

1.2.2. step 2

Repository Name *

Good repository names use short, memorable and unique keywords.

Visibility Make Repository Private

Description

.gitignore

License

README

Initialize Repository (Adds .gitignore, License and README)

Figure 3. Create New Repository

2. clone repository

2.1. git clone

2.1.1. copy url

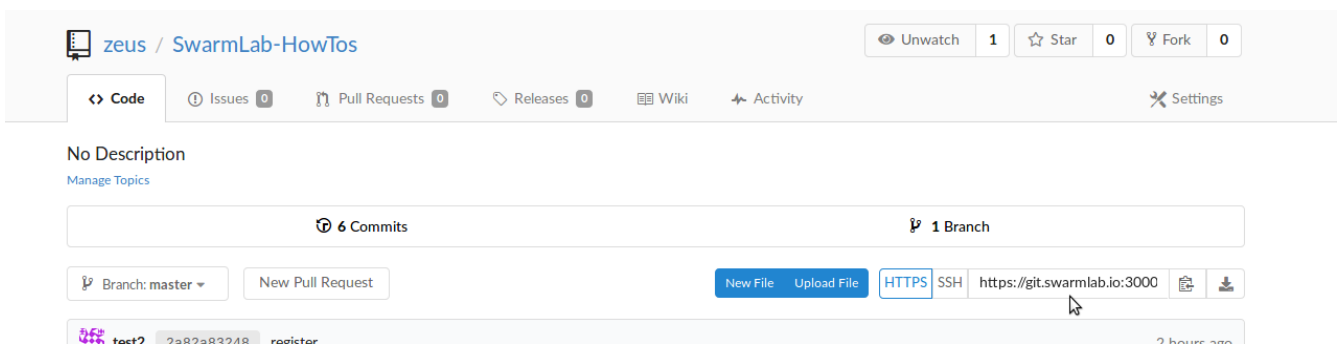


Figure 4. clone Repositor

2.1.2. paste url

- On your computer!

git clone

```
git clone paste-url-here
```

Install Git

```
sudo apt update  
sudo apt install git
```



git error

The requested URL returned error: 502

Try again!!!

3. workflow



Write Access is **ONLY** with "SSH Key-Based Authentication" Allowed

[SSH Key-Based Authentication](#)

3.1. add & commit

You can propose changes (add it to the Index) using

git add

```
git add <filename>  
git add *
```

This is the first step in the basic git workflow. To actually commit these changes use



git status

git status

git commit

```
git commit -a -m "Commit message"
```



Now the file is committed to the HEAD, but not in your remote repository yet.

3.2. pushing changes

Your changes are now in the HEAD of your local working copy.

To send those changes to your remote repository, execute

git push

```
git push origin master
```

Change master to whatever branch you want to push your changes to.

3.3. update

to update your local repository to the newest commit, execute

git pull

```
git pull origin
```

in your working directory to fetch and merge remote changes.

3.4. log

in its simplest form, you can study repository history using..

git log

```
git log
```

You can add a lot of parameters to make the log look like what you want. To see only the commits of a certain author:

git log

```
git log --author=bob
```

To see a very compressed log where each commit is one line:

git log

```
git log --pretty=oneline
```

Or maybe you want to see an ASCII art tree of all the branches, decorated with the names of tags and branches:

git log

```
git log --graph --oneline --decorate --all
```

See only which files have changed:

git log

```
git log --name-status
```

These are just a few of the possible parameters you can use. For more, see `git log --help`

Write Access is **ONLY** with "SSH Key-Based Authentication" Allowed



Using the SSH protocol, you can connect and authenticate to remote servers and services. With SSH keys, you can connect to SwarmLab.io git Service without supplying your username or password at each visit.

4. links & resources

[Git Community Book](#)

[A Visual Git Reference](#)