Quick Installation Guide

Pre requirements

- OS – Ubuntu 18.04;
- Nginx, uWsgi installed and basic configuration/knowledge;
- Public IP / DNS configuration/ IP-Balancer configured;
- Open Firewall Ports (unfortunately gitlab does not provide the public api meta ips);
- PostgreSQL database Installed;
- All security, logging and monitoring will be up to you (DNS, webpage passwords, certificates, monitoring tools, etc);
- Is being assume the name of the website to be "**https://gitlab-tools.com**";
- GitLab API configuration is already at place (redirect : https://gitlab-tools.com/sign/in/do);
- All the tokens, user names, hosts, ports are known;
- There is a group created at GitLab for mirroring;
- Is being assume the system user on which will run under to be "**gitlab-tools**";

Script:

Change what is in **bold** with the correct information then run each command

Avoid having backslash on any of them (bold).If so, then procedure to do the manual installation at step 4 (*sudo gitlab-tools setup*)

1- $ wget -O - https://repository.salamek.cz/deb/salamek.gpg.key | sudo apt-key add –

2- $ echo "deb https://repository.salamek.cz/deb/pub all main" | sudo tee /etc/apt/sources.list.d/salamek.cz.list

3- $ sudo apt update && apt install python3-gitlab-tools -y

4- $echo –e "${**gitlab-tools**}\n${1}\n${**db_host**}\n${**db_name**}\n${**db_user**}\n${**db_user_pass**}\n${\n}\n${**https://gitlab-tools.com**}\n${**git_app_id**}\n${**git_app_secret**}\n${**y**}\n${**y**}\n${**n**}\n" | sudo gitlab-tools setup

5- $ systemctl disable gitlab-tools.service

Create uwsgi application configuration file:

```
[uwsgi]
uid = gitlab-tools
master = true
chdir = /usr/lib/python3/dist-packages/gitlab_tools
socket = /tmp/gitlab-tools.sock
module = wsgi
callable = app
plugins = python3
buffer-size = 32768
```

Link this config file and restart uwsgi to load new configuration.

Modify/Create the Nginx config file with:

```
    server_name gitlab-tools.com;
    location / {
        uwsgi_pass unix:///tmp/gitlab-tools.sock;
        include uwsgi_params;
    }
```

Test the nginx configuration and restart the service

Access the webpage and proceed to login into your gitlab account.

Push mirror configuration guide

To create your first push mirror follow these steps

1. Click on "Push mirror" in main menu
2. Click on "Add +"
3. Fill in form required fields:
    1. Fill in "Project mirror" that is GIT repo URI you want to push to (eg. git@github.com:Salamek/gitlab-tools.git), it must exists and be empty!
    2. Fill in "Search for project" select project in your GitLab CE installation you want to mirror.
4. Click on "Save"
5. Now you should see newly created mirror in "Push mirror" section
6. To get actual mirroring work **you must allow your GitLab-Tools user to access that repository** via configured "Project mirror" URI. (webhook link is available in webhook section)

Pull mirror configuration guide

To create your first pull mirror follow these steps

1. Click on "Pull mirror" in main menu
2. Click on "Add +"
3. Fill in form required fields:
    1. Fill in "Project mirror" that is GIT repo URI you want to mirror (eg. git@github.com:Salamek/gitlab-tools.git)
    2. Fill in "Project name" that is name of project that will be created in your GitLab CE installation
    3. Fill in "Search for group" select group in your GitLab CE installation where this mirrored project will be created. It can be separated group like "Mirrors" or any other group or subgroup.
4. Click on "Save"
5. Now you should see newly created mirror in "Pull mirror" section
6. To get actual mirroring work, we must **register push web hook to mirrored repository and allow your GitLab-Tools user to access that repository** via configured "Project mirror" URI. (webhook link is available in webhook section)

How to allow access to mirrored repository:

For SSH access you will need GitLab-Tools user **public key**, you can find it on "Home" page. If you use SSH, make sure your deploy key on target repository has writable permission.

How to add/remove fingerprints:

Click on “Fingerprints” in main menu and proceed to add or remove a fingerprint.

Extra info:

All the repositories will be pulled locally and after it will be push to the repository destination. Consider this due to the necessary space involved in repositories.

Scheduling will depend on webhook or cronjobs configurations.

Inside the database you will encounter the status of the jobs.