Run GitLab Runner in a container

We can run github runners locally. In this lab, we will register gitlab-runner on gitlab.com.

NOTE: Make sure to open new terminal and connect with your remote VM before running docker commands below:

```
ssh ubuntu@YOUR VM DNS NAME.courseware.io
```

Password: Will be provided by Instructor.

```
root@982e2c2fb78d:~# ssh root@gitlab-ansible-dev.courseware.io
root@gitlab-ansible-dev.courseware.io's password:
Welcome to Ubuntu 22.10 (GNU/Linux 5.19.0-23-generic x86_64)
* Documentation: https://help.ubuntu.com
                 https://landscape.canonical.com
* Management:
* Support:
                  https://ubuntu.com/advantage
 System information as of Mon Feb 13 23:49:59 UTC 2023
                                  Users logged in:
 System load: 0.0703125
 Usage of /: 13.0% of 154.96GB IPv4 address for docker0: 172.17.0.1
                                 IPv4 address for eth0: 143.244.152.105
 Memory usage: 15%
                                  IPv4 address for eth0:
                                                            10.10.0.5
 Swap usage: 0%
                                  IPv4 address for eth1:
                                                           10.116.0.2
 Processes:
94 updates can be applied immediately.
68 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
ast login: Mon Feb 13 23:48:16 2023 from 172.17.0.2
```

In this lab, you can use a configuration container to mount your custom data volume.

Create the Docker volume:

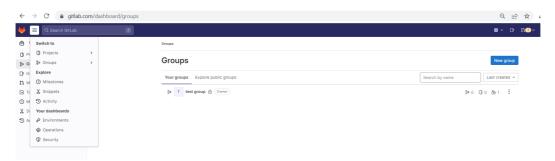
```
docker volume create gitlab-runner-config
```

Start the GitLab Runner container using the volume we just created:

```
docker run -d --name gitlab-runner --restart always \
   -v /var/run/docker.sock:/var/run/docker.sock \
   -v gitlab-runner-config:/etc/gitlab-runner \
   gitlab/gitlab-runner:latest
```

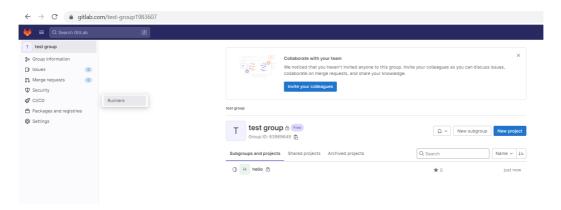
Group Runner Setup

1. On the top bar, select Main menu > Groups and find your group.

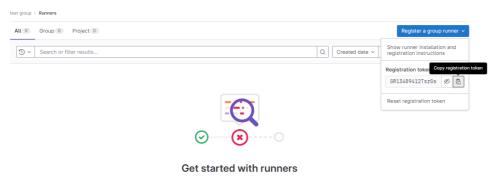


Note: If you don't have one, click <code>New Group</code> to create new one.

2. On the left sidebar, select CI/CD > Runners.



3. In the upper-right corner, select Register a group runner and copy **Registration token** from the next steps .



Runners are the agents that run your CI/CD jobs. Follow the installation and registration instructions to set up a runner.

Register a Runner

1. To register a runner using a Docker container:

 $\label{locker} \begin{tabular}{ll} docker run --rm -it -v gitlab-runner-config:/etc/gitlab-runner gitlab/gitlab-runner:latest register \end{tabular}$

- 2. Enter your GitLab instance URL (also known as the gitlab-ci coordinator URL): https://gitlab.com/
- 3. Enter the token you obtained to register the runner.
- 4. Enter a description for the runner. You can change this value later in the GitLab user interface.
- 5. Enter the tags associated with the runner, separated by commas. You can change this value later in the GitLab user interface.
- 6. Enter any optional maintenance note for the runner.
- 7. Provide the runner executor: enter docker.

8. If you entered docker as your executor, you are asked for the default image to be used for projects that do not define one in .gitlab-ci.yml: enter **ruby:2.7**

```
monting platform archaeof6 osslinux pide? revision=4dcal21 version=15.8.2

munting in system=aode.

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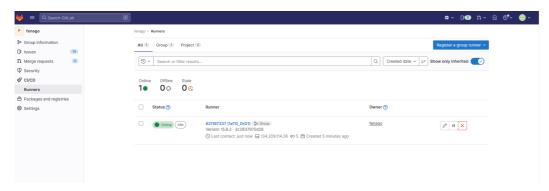
Enter the distable instance on UEL (for example, https://gitlab.com/):

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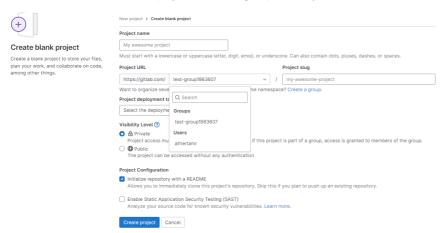
Enter the first of the first of
```

9. Reload the webpage, you should see one runner available.



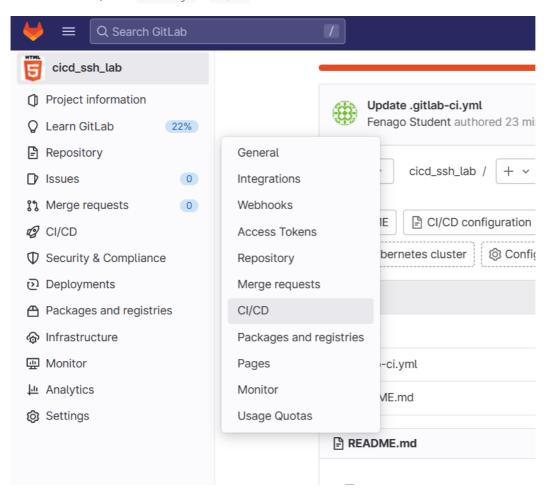
Using Gitlab Runner in CI/CD

1. **Important!** Make sure to create new project inside the group so that you can use the runner:



2. Disable shared runners for all the projects that you create. Otherwise, gitlab will fail your pipeline and ask for account verification.

3. On the left sidebar, select Settings > CI/CD.



4. Expand Runners and disable shared runners for this project.

Runners are processes that pick up and execute CI/CD jobs for GitLab. What is GitLab Runner?

Register as many runners as you want. You can register runners as separate users, on separate servers, and on your local

How do runners pick up jobs?

Runners are either:

- active Available to run jobs.
- paused Not available to run jobs.

Tags control which type of jobs a runner can handle. By tagging a runner, you make sure shared runners only handle the jobs they are equipped to run. Learn more.

Project runners

Shared runners These runners are assigned to this project. These runners are available to all groups and projects. Each CI/CD job runs on a separate, isolated virtual machine. Set up a project runner for a project 1. Install GitLab Runner and ensure it's running. Enable shared runners for this project 2. Register the runner with this URL: https://gitlab.com/ [3

5. Scroll to Group runners and confirm one runner is available.

Group runners

These runners are shared across projects in this group. Group runners can be managed with the Runner API. for this project Disable group runners

Available group runners: 1



Important! You will need to disable shared runner for all gitlab projects.