INSTALL GITLAB RUNNERS

How to Install GitLab Runner on Ubuntu 20.04 LTS

November 27, 2021 by Shweta Mamidwar

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In this article we are going to cover How to Install GitLab Runner on Ubuntu 20.04 LTS / any other cloud platform like AWS EC2, Azure VM, Google Cloud with preinstalled Ubuntu 20.04 LTS.

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Step #1: Add the Official GitLab Repository

First add the official GitLab Repository using below command, to check latest Gitlab Repository visit the official GitLab Runner page

```
curl -L "https://packages.gitlab.com/install/repositories/runner/gitlab-runner/script.deb.sh" | sudo bash
```

Step #2: Install GitLab Runner on Ubuntu

Run below command to install latest GitLab Runner on Ubuntu 20.04 LTS

```
sudo apt-get install gitlab-runner
```

use below commands to install specific version of GitLab Runner on Ubuntu.

```
apt-cache madison gitlab-runner
```

```
sudo apt-get install gitlab-runner=10.0.0
```

Command to check GitLab Runner version

```
sudo gitlab-runner -version
```

Output:

```
Version:       13.4.1
Git revision: e95f89a0
Git branch:    13-4-stable
GO version:    go1.13.8
Built:         2020-09-25T20:03:43+0000
OS/Arch:       linux/amd64
```

To check status if GitLab Runner service is running or not

```
sudo gitlab-runner status
```

Output:

```
Runtime platform                                    arch=amd64 os=linux
pid=29368 revision=e95f89a0 version=13.4.1
gitlab-runner: Service is running!
```

Commands to Start, Stop and Restart GitLab Runner

```
sudo gitlab-runner start
```

```
sudo gitlab-runner stop
```

```
sudo gitlab-runner restart
```

Step #3: Grant sudo Permission to GitLab Runner User

After install GitLab Runner you will see gitlab-runner user in **/home** directory

```
cd /home
```

```
ls
```

Output:

```
gitlab-runner ubuntu
```

To grant sudo permission to gitlab-runner user, ope the visudo file

```
sudo visudo
```

Add the gitlab-runner user in sudoers group and set **NOPASSWD** as shown below

```
gitlab-runner ALL=(ALL:ALL) ALL
```

```
 gitlab-runner ALL=(ALL) NOPASSWD: ALL
```

Output:

```
# Host alias specification

# User alias specification

# Cmnd alias specification

# User privilege specification
root    ALL=(ALL:ALL) ALL
gitlab-runner ALL=(ALL:ALL) ALL

# Members of the admin group may gain root privileges
%admin ALL=(ALL) ALL

# Allow members of group sudo to execute any command
%sudo   ALL=(ALL:ALL) ALL

# See sudoers(5) for more information on "#include" directives:

#includedir /etc/sudoers.d
gitlab-runner ALL=(ALL) NOPASSWD: ALL
```

Step #4: Register GitLab Runner to GitLab on Ubuntu

First login to GitLab Server with Username and Password.

Click on your project and select **Settings**
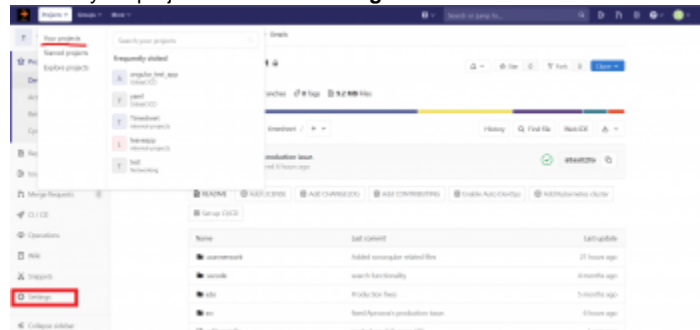
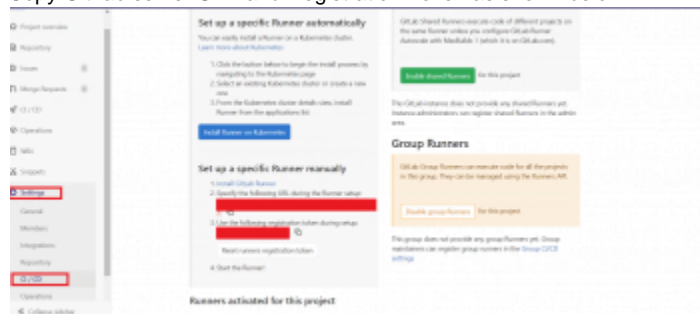Navigate to Settings and click on CI/CD inside this click on Expand of **Runners** section

Copy GitLab server URL and Registration Token as shown below.

Paste GitLab Server URL and Token in registration command as below

```
$ gitlab-runner register --name project-name-runner --url
https://gitlab.fosstechnix.com --registration-token  Uc7yzxTMzsXhXJx3zgM
```

OR

```
sudo gitlab-runner register
```

OR

if you want to register gitlab-runner with docker executor then use below command

```
sudo gitlab-runner register \
  --non-interactive \
  --url "GITLAB_SERVER_URL" \
  --registration-token "REGISTRATION_TOKEN" \
  --description "docker-runner" \
  --executor "docker" \
  --docker-image ubuntu:latest
```

1. Copy above command. Login to GitLab runner server through SSH and paste & run copied command on command line.

Follow the default options until which agent you need to register and then select agent as shown below

Once you registered Runner for project then you will get runner as below,

Successfully, We have performed GitLab Runner Registration.