

# Description

---

This file describes steps needed to setup your own Virtual Machine as a GitLab CI/CD runner. The manual assumes that you have already created your own Virtual Machine with Centos7 as a operating system.

## Manual

---

### Setting up Docker

This part of manual is based on official [Docker documentation](#).

#### Remove old docker versions

```
sudo yum remove docker \
    docker-client \
    docker-client-latest \
    docker-common \
    docker-latest \
    docker-latest-logrotate \
    docker-logrotate \
    docker-engine
```

#### Install new docker engine and CLI using official repository

##### Install required packages

```
sudo yum install -y yum-utils \
    device-mapper-persistent-data \
    lvm2
```

##### Set up the repository

```
sudo yum-config-manager \
    --add-repo \
    https://download.docker.com/linux/centos/docker-ce.repo
```

##### Install Docker Engine and CLI

```
sudo yum install docker-ce docker-ce-cli containerd.io
```

##### Start Docker

```
sudo systemctl start docker
```

Verify if Docker works properly

```
sudo docker run hello-world
```

## Register virtual machine as a GitLab CI/CD runner

This part of manual is based on official [CERN GitLab documentation](#).

### Download appropriate packages

```
curl -LJO \  
https://gitlab-runner-downloads.s3.amazonaws.com/latest/rpm/gitlab-runner_amd64.rpm
```

### Install the packages

```
sudo yum install gitlab-runner_amd64.rpm
```

If you want to update runner packages use following command instead:

```
rpm -Uvh gitlab-runner_amd64.rpm
```

### Download gitlab-runner binary file

```
sudo curl -L --output /usr/local/bin/gitlab-runner \  
gitlab-runner-downloads.s3.amazonaws.com/latest/binaries/gitlab-runner-linux-amd64
```

### Give proper permissions to the binary file

```
sudo chmod +x /usr/local/bin/gitlab-runner
```

### Create a GitLab CI user

```
sudo useradd --comment 'GitLab Runner' --create-home gitlab-runner --shell /bin/bash
```

### Install application and run as a service

```
sudo gitlab-runner install --user=gitlab-runner\  
--working-directory=/home/gitlab-runner  
sudo gitlab-runner start
```

## Register the runner

### Register using gitlab-runner

```
sudo gitlab-runner register
```

### Enter proper GitLab instance URL

Please enter the gitlab-ci coordinator URL (e.g. `https://gitlab.com` )  
`https://gitlab.cern.ch`

### Enter token obtained from your GitLab group page > settings > CI/CD > Runners

Please enter the gitlab-ci token for this runner  
<your\_token\_here>

### Enter a description for the runner (this can be changed later)

Please enter the gitlab-ci description for this runner  
[hostname] my-runner

### Enter proper tags (this can be changed later)

Please enter the gitlab-ci tags for this runner (comma separated):  
ggss-builder

### Enter runner executor

Please enter the executor: ssh, docker+machine, docker-ssh+machine,\nkubernetes, docker, parallels, virtualbox, docker-ssh, shell:  
docker

### Enter default image (if not defined in .gitlab-ci.yml)

Please enter the Docker image (eg. `ruby:2.1`):  
cern/cc7-base:latest