**INSTALLATION GITLAB AND GITLAB RUNNER DEVOPS**

1. **Instalasi Gitlab CE**

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| 1) sudo apt update  2) sudo apt install ca-certificates curl openssh-server postfix tzdata perl  notes: For the postfix installation, select Internet Site when prompted. On the next screen, enter your server’s domain name to configure how the system will send mail.  3) cd /tmp  4) curl -LO https://packages.gitlab.com/install/repositories/gitlab/gitlab-ce/script.deb.sh  5) sudo bash /tmp/script.deb.sh  6) sudo apt install gitlab-ce  7) sudo nano /etc/gitlab/gitlab.rb # for configure gitlab  8) sudo gitlab-ctl reconfigure |

**Note:**

**Add the gitlab.rb configuration to command 7 first before executing command 8.**

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| external\_url 'https://your\_domain  gitlab\_rails['time\_zone'] = 'Asia/Jakarta'  gitlab\_rails['gitlab\_shell\_ssh\_port'] = 2222  registry\_external\_url 'https://registry-yourdomain  gitlab\_rails['registry\_enabled'] = true  gitlab\_rails['registry\_host'] = 'registry-yourdomain'  nginx['enable'] = true  nginx['redirect\_http\_to\_https'] = true  #nginx['redirect\_http\_to\_https\_port'] = 80  nginx['ssl\_certificate'] = "/etc/gitlab/ssl/yourdomain.crt"  nginx['ssl\_certificate\_key'] = "/etc/gitlab/ssl/yourdomain.key"  nginx['client\_max\_body\_size'] = '250m'  gitlab\_rails['smtp\_enable'] = true  gitlab\_rails['smtp\_address'] = "172.17.6.252"  gitlab\_rails['smtp\_port'] = 25  #gitlab\_rails['smtp\_domain'] = "yourdomian.com"  gitlab\_rails['smtp\_authentication'] = false  gitlab\_rails['smtp\_enable\_starttls\_auto'] = false  gitlab\_rails['smtp\_tls'] = false  gitlab\_rails['smtp\_openssl\_verify\_mode'] = 'none'  gitlab\_rails['gitlab\_email\_from'] = 'system.alert@yourdomain.com'  gitlab\_rails['gitlab\_email\_display\_name'] = 'GitLab Notification'  gitlab\_rails['gitlab\_email\_reply\_to'] = 'noreply@yourdomain.com' |

1. **Instalasi Gitlab Runner**

**2.1 Instalasi Docker dan Docker Compose**

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| 1) sudo apt-get update  2) sudo apt-get install ca-certificates curl  3) sudo install -m 0755 -d /etc/apt/keyrings  4) sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc  5) sudo chmod a+r /etc/apt/keyrings/docker.asc  6) echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu $(. /etc/os-release && echo "$VERSION\_CODENAME") stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null  7) sudo apt-get update  8) sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin  9) sudo usermod -aG docker $USER |

* 1. **Create Container Gitlab Runner**

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| 1. mkdir gitlab-runner 2. cd gitlab-runner 3. mkdir config 4. nano docker-compose.yml 5. docker compose up -d gitlab-runner |

**Note:**

**Add the docker-compose.yaml config first before executing command 5**

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| --- |
| services:  gitlab-runner:  image: gitlab/gitlab-runner:latest  container\_name: gitlab-runner  restart: always  volumes:  - './config:/etc/gitlab-runner'  - '/var/run/docker.sock:/var/run/docker.sock'  - './kubeconfig:/etc/gitlab-runner/kubeconfig:kube'  environment:  - TZ=Asia/Jakarta  - KUBECONFIG=/etc/gitlab-runner/kubeconfig |

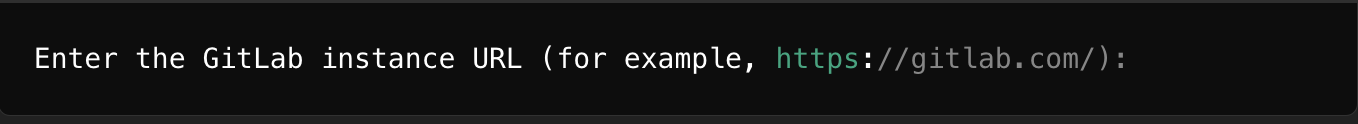
* 1. **Register Runner Docker**

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| --- |
| 1. docker exec -it gitlab-runner gitlab-runner register |

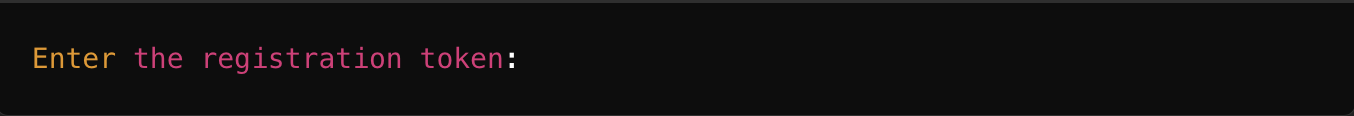
**Note:**

**In this step, the following requirements will be requested**

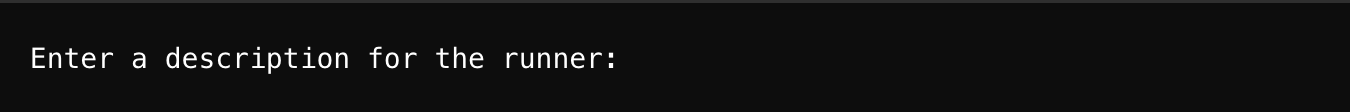
1. Menentukan URL GitLab

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1. Register Token

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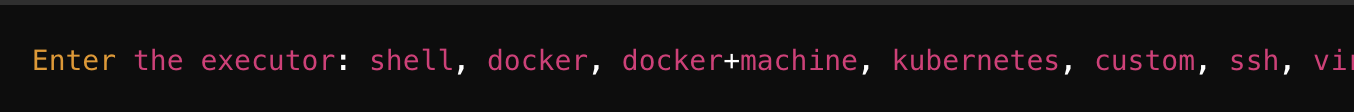
1. Ronnuer Description



1. Tag Runner



1. Runner Executor



1. Select and type docker then enter and enter the example executor image **docker:stable**

**Note**

The docker runner configuration will be in the config/config.toml directory and kubeconfig will be used if using the kubectl image from dockerhub or others.