

Lab 4

GitLab Installation Lab on Ubuntu VM

Prerequisites

- Ubuntu 20.04 or 22.04 VM (recommended)
- At least 4 GB RAM and 2 CPUs
- Root or sudo access
- Internet access
- A hostname pointing to your VM's IP (e.g., gitlab.example.com) – optional but recommended for external access

Step 1: Update Your System

```
sudo apt update && sudo apt upgrade-y
```

Step 2: Install Required Dependencies

```
sudo apt install-y curl openssh-server ca-certificates tzdata perl  
sudo apt install-y postfix
```

Step 3: Add GitLab Repository

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

Step 4: Install GitLab

In terminal

```
ip addr|grep ens
```

Replace http://gitlab.example.com with your actual domain or public IP:

```
sudo EXTERNAL_URL="http://gitlab.example.com" apt install-y gitlab-ee
```

```
root@amitserver:~# sudo EXTERNAL_URL="http://192.168.111.130" apt install -y gitlab-ee
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
gitlab-ee is already the newest version (17.10.3-ee.0).
The following packages were automatically installed and are no longer required:
 apache2-bin apache2-data apache2-utils bnd ebtables groovy ivy java-wrappers libapr1t64
 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64 libbcpg-java libbcprov-java libbindex-java
 libcommons-codec-java libcommons-collections3-jar libcommons-compress-jar libcommons-lang-jar
 libdd-plist-jar libdom4j-jar libeclipse-jdt-annotation-jar libfelix-framework-jar
 libfelix-gogo-runtime-jar libfelix-osgi-obr-jar libfelix-resolver-jar libfindbugs-jar
 libgoogle-gson-jar libgpars-groovy-jar libgradle-core-jar libgradle-plugins-jar libhawtjni-runt
 libhttpclient-jar libhttpcore-jar libjansi-native-jar libjansi-jar libjarjar-jar libjatl-jar
 libjavaweh-jar libjaxen-jar libjcifs-jar libjcip-annotations-jar libjcs-jar libjformatstring
 libjgit-jar libjline2-jar libjna-jar libjna-jni libjsoup-jar libjsr166y-jar libkryo-jar libkx
 liblvm17t64 libminlog-jar libmultiverse-core-jar libnative-platform-jar libnative-platform-jni
 libnekhtml-jar libobjenesis-jar libosgi-annotation-jar libosgi-compendium-jar libosgi-core-jar
 libplexus-container-default-jar libpolyglot-maven-jar libqdox-jar libreflectasm-jar
 libreflectasm-jar librhino-jar libsimple-http-jar libwagon-http-jar libxbean-reflect-jar
 libxerces2-jar libxml-commons-external-jar libxpp3-jar libxstream-jar socat
```

Step 5: Configure GitLab

```
sudo gitlab-ctl reconfigure
```

This may take a few minutes. It will set up NGINX, PostgreSQL, Redis, and other required components.

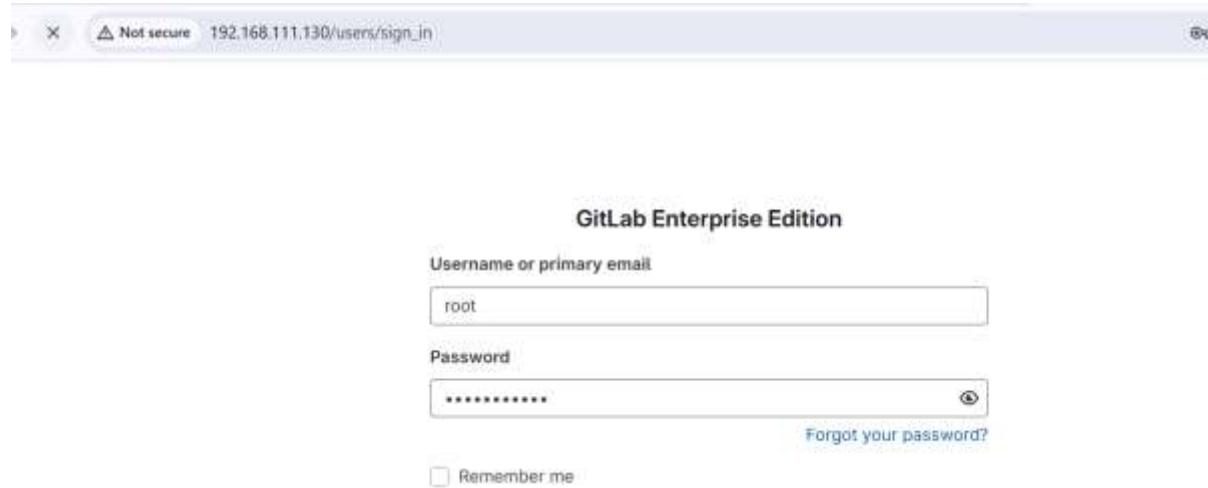
Step 6: Access GitLab

Open a browser and go to:

<http://<your-domain-or-ip>>

Default Admin User

- **Username:** root
- **Password location:** /etc/gitlab/initial_root_password



On the first visit, GitLab will ask you to set the **admin password**.
