Link Youtube:
https://youtu.be/8fVOdFdzlKc?si=Pi29ABVhJYrdQ55F

Installing Jenkins on Ubuntu 24.04

Jenkins is an open-source automation server that helps automate parts of software development, including building, testing, and deploying. Follow this guide to install Jenkins on Ubuntu 24.04.

Step 0: Start ubuntu 24.04 have docker with multipass

```
multipass launch 24.04 --name <your vm name>

multipass shell <your vm name>
```

Step 1: Update System Packages

Before installing Jenkins, update and upgrade the system packages:

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

Step 2: Install Java

Jenkins requires Java to run. Install OpenJDK 17 (recommended version):

```
sudo apt install openjdk-17-jdk -y
```

Verify the installation:

```
java -version
```

Step 3: Add Jenkins Repository and Import GPG Key
Link: https://www.jenkins.io/doc/book/installing/linux/

Jenkins is not available in the default Ubuntu repositories, so add the official Jenkins repository:

```
curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee /usr/share/keyrings/jenkins-keyring.asc > /dev/null
```

Then, add the repository:

```
echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] https://pkg.jenkins.io/debian-stable binary/" | sudo tee /etc/apt/sources.list.d/jenkins.list > /dev/null
```

Step 4: Install Jenkins
Update the package list and install Jenkins:

```
sudo apt update

sudo apt install jenkins -y
```

Step 5: Start and Enable Jenkins Service

Start Jenkins and enable it to launch on boot:

```
sudo systemctl start jenkins

sudo systemctl enable jenkins
```

Check the status:

```
sudo systemctl status jenkins
```

Step 6: Adjust Firewall Settings (Optional)

If UFW is enabled, allow Jenkins through the firewall:

```
sudo ufw allow 8080/tcp

sudo ufw reload
```

Step 7: Access Jenkins Web Interface

Retrieve the initial admin password:

```
sudo cat /var/lib/jenkins/secrets/initialAdminPassword
```

Access Jenkins via a web browser:

```
http://your-server-ip:8080
```

Conclusion

You have successfully installed Jenkins on Ubuntu 24.04. You can now install plugins and configure Jenkins according to your needs.