Jenkins CI Setup

1. Jenkins Installation

- Install Java: sudo apt install openjdk-17-jdk
- Install Jenkins:

wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key add sudo sh -c 'echo deb https://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
sudo apt update && sudo apt install jenkins
sudo systemctl start jenkins && sudo systemctl enable jenkins

2. Setup Access

- Access via: http://<your-ip>:8080
- Use: sudo cat /var/lib/jenkins/secrets/initialAdminPassword
- Install suggested plugins and create admin user.

3. First Pipeline (Frontend Deploy)

- Create a pipeline with SCM: GitHub repo link
- Pipeline script example:

git branch: 'main', url: 'https://github.com/user/repo.git' sh 'sudo cp -r frontend/* /var/www/optimec/'

- Make sure to allow jenkins user passwordless sudo (edit /etc/sudoers):

jenkins ALL=(ALL) NOPASSWD: ALL