Refer Jenkins document and how we can configure Jenkins with the Github for Auto deployment

Jenkins is an open-source automation server that automates the repetitive technical tasks involved in the continuous integration and delivery of software. Jenkins is Java-based, installed from Ubuntu packages or by downloading and running its web application archive (WAR) file — a collection of files that make up a complete web application to run on a server.

Step 1 — Installing Jenkins

First, add the repository key to your system:

wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key |sudo gpg -- dearmor -o /usr/share/keyrings/jenkins.gpg

The gpg --dearmor command is used to convert the key into a format that apt recognizes.

Next, let's append the Debian package repository address to the server's sources.list:

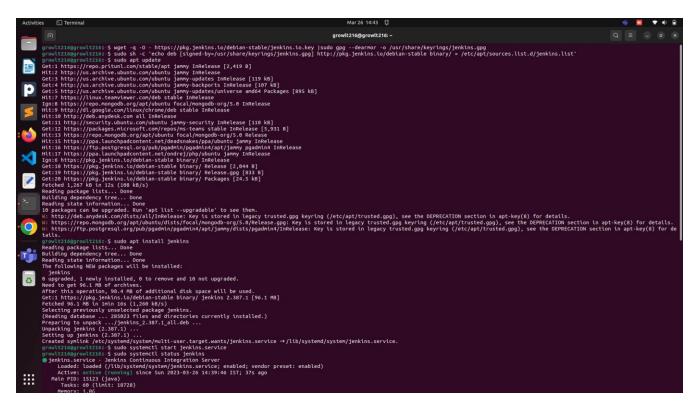
sudo sh -c 'echo deb [signed-by=/usr/share/keyrings/jenkins.gpg] http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'

After both commands have been entered, run apt update so that apt will use the new repository.

sudo apt update

Finally, install Jenkins and its dependencies:

sudo apt install jenkins



Step 2 — Starting JenkinsStep 2 — Starting Jenkins

now that Jenkins is installed, start it by using systemctl:

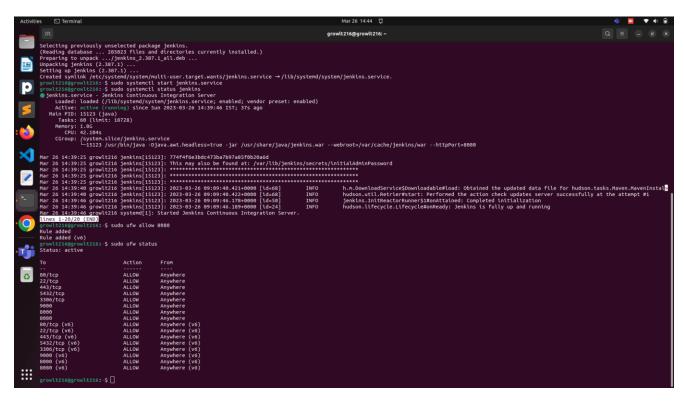
sudo systemctl start jenkins.service

Since systemctl doesn't display status output, we'll use the status command to verify that Jenkins started successfully:

sudo systemctl status jenkins

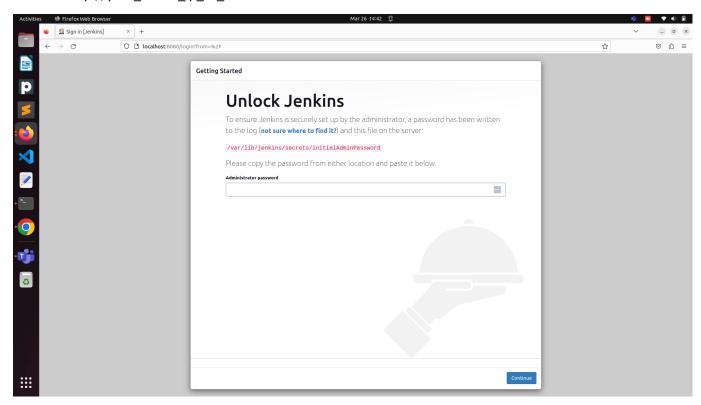
Step 3 — Opening the Firewall

sudo ufw allow 8080

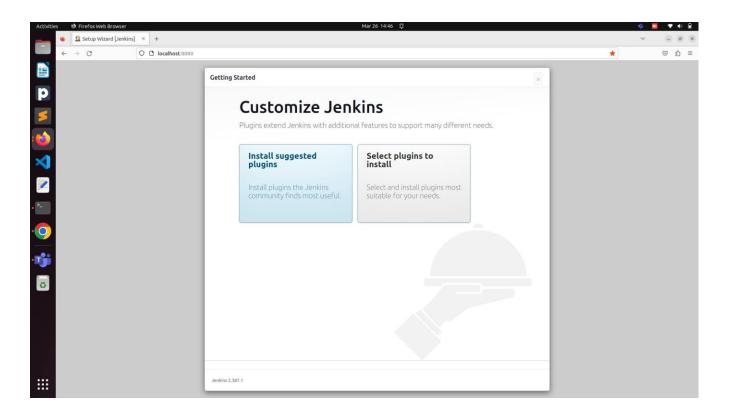


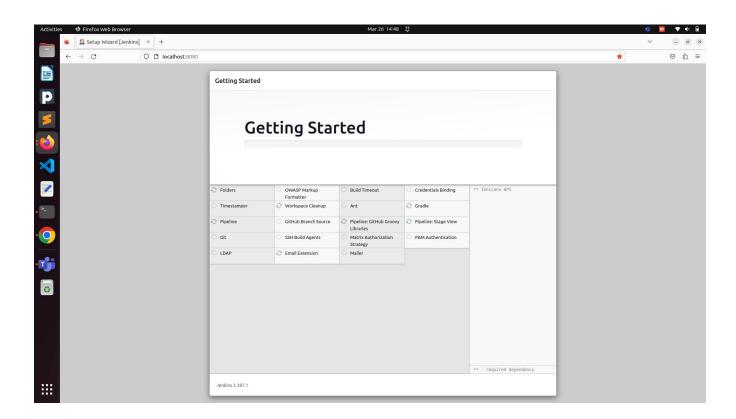
Step 4 — Setting Up Jenkins

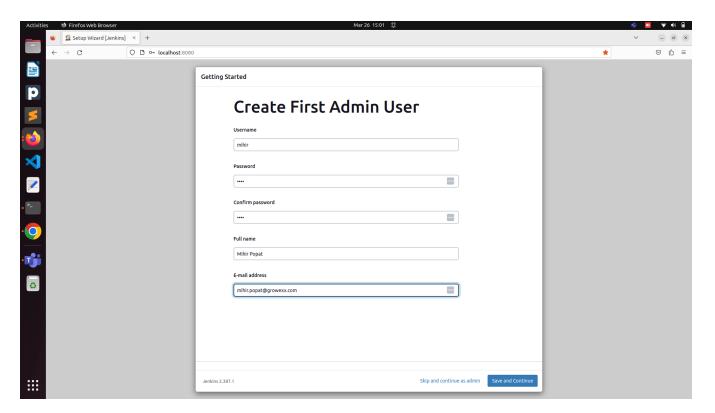
To set up your installation, visit Jenkins on its default port, 8080, using your server domain name or IP address: http://your_server_ip_or_domain:8080

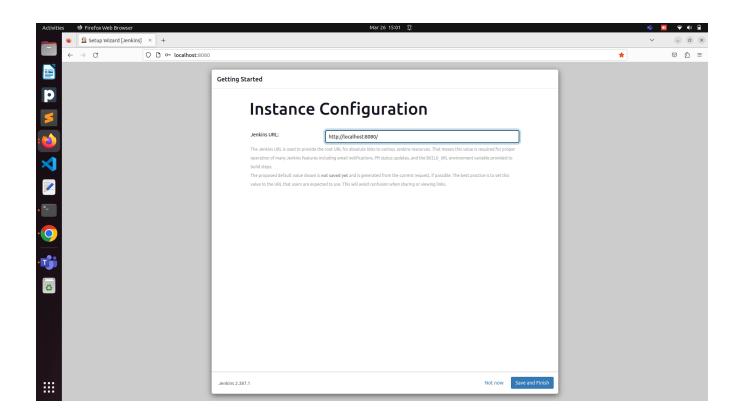


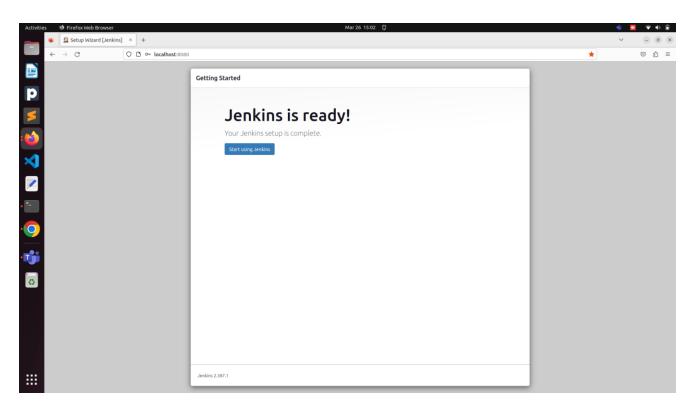
growlt216@growlt216:~\$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
774f4f6e3bdc473ba7b97a85f0b20a6d
growlt216@growlt216:~\$

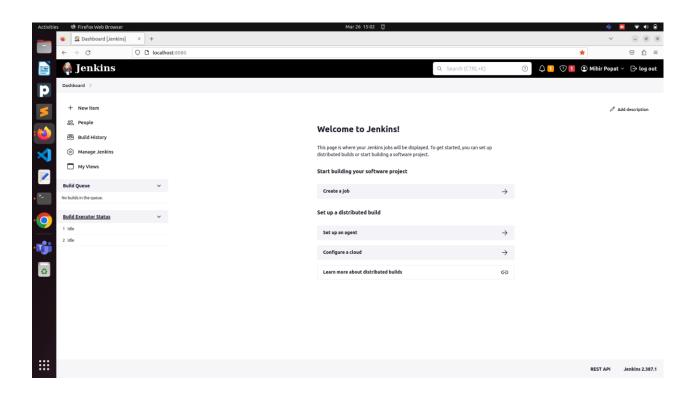


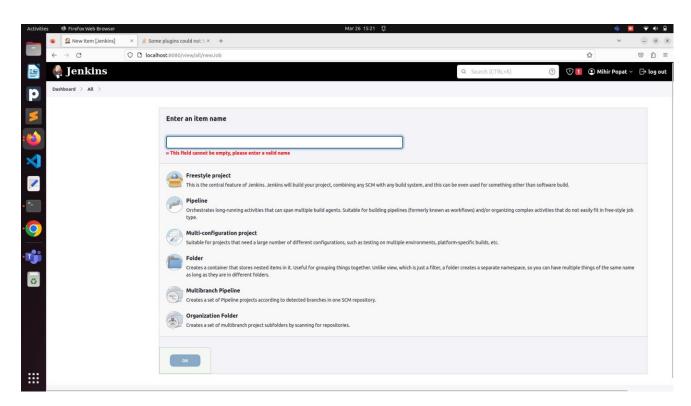


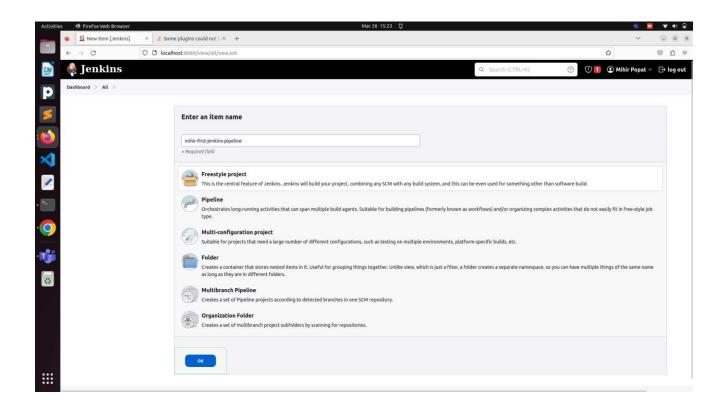


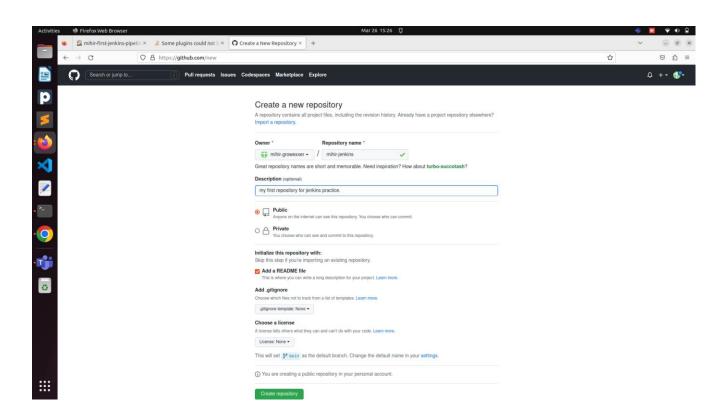


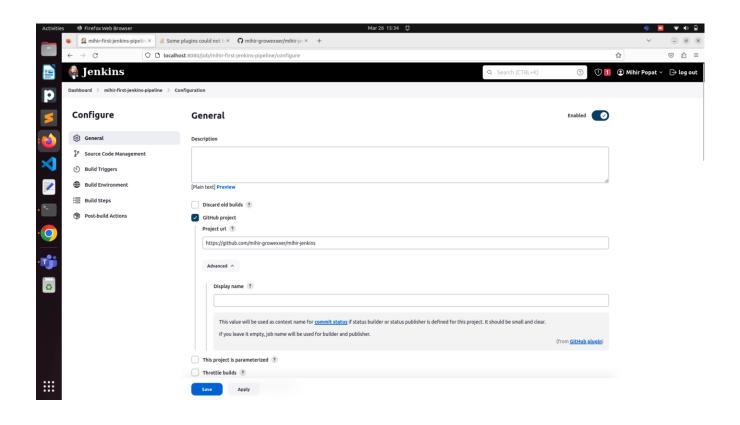


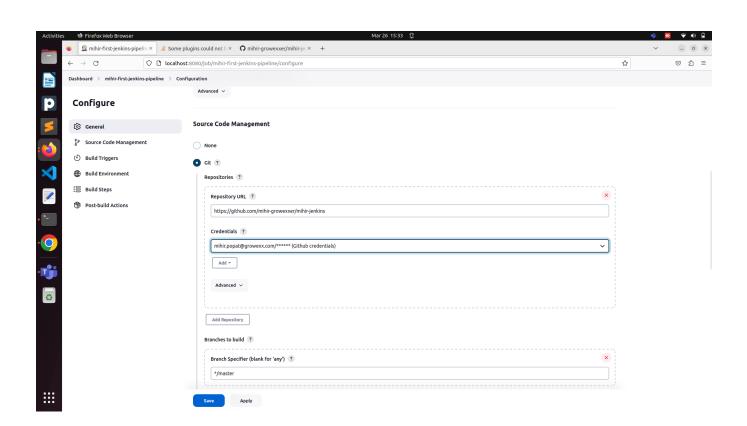


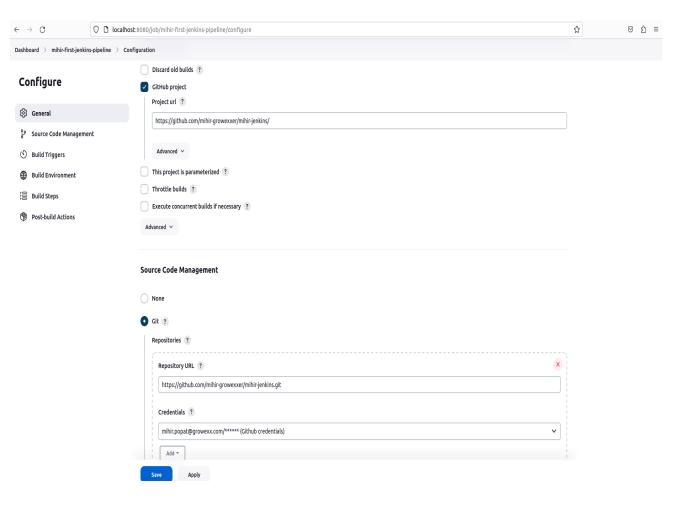


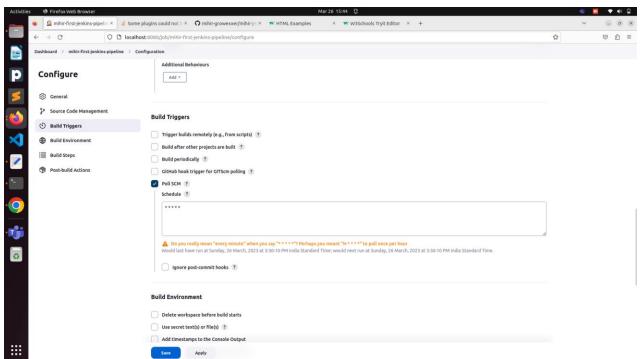


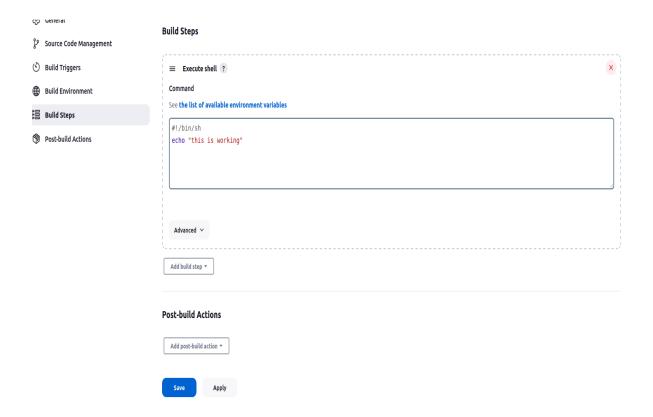












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