JENKINS AND NGNIX

STEP 1 : Install Ubuntu and use the Ubuntu OS
STEP 2 : Open the terminal in the Ubuntu
STEP 3 : Make sure your Ubuntu has java . If not install java using

sudo apt install openjdk-17-jdk -y

Once you install java , check the version like this below image

STEP 4 : Now install jenkins , create a **nano filename.sh** file and add the following commands

**sudo wget -O /usr/share/keyrings/jenkins-keyring.asc **
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key

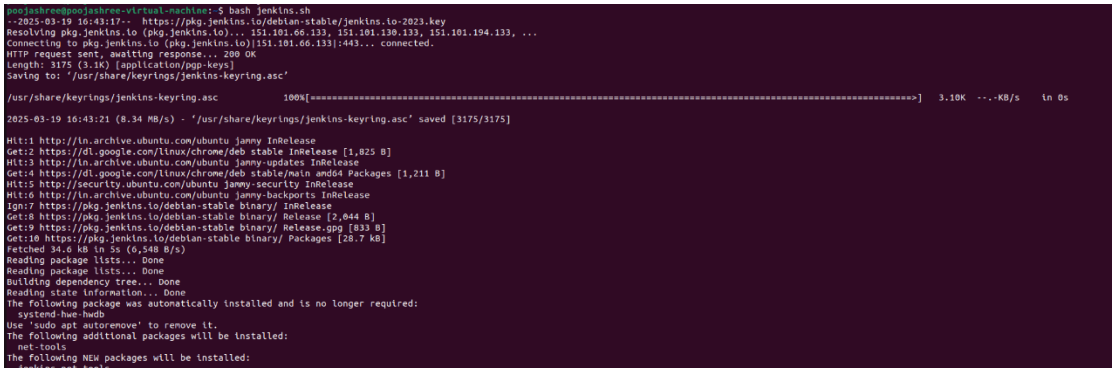
**echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" **
**https://pkg.jenkins.io/debian-stable binary/ | sudo tee **
/etc/apt/sources.list.d/jenkins.list > /dev/null

sudo apt-get update

sudo apt-get install jenkins

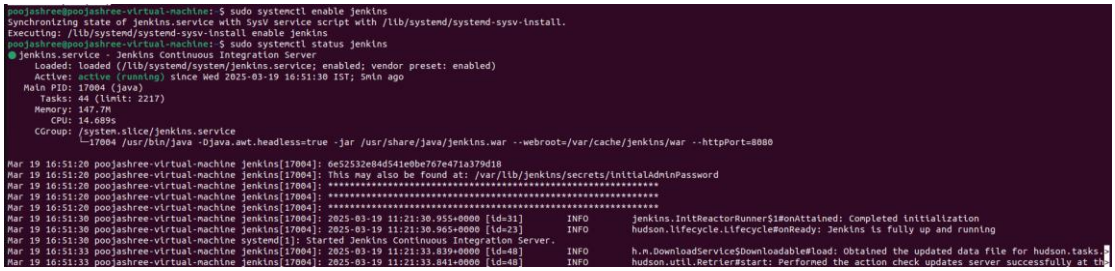
STEP 5 : Run the file using bash filename.sh

You will get the following terminal window like below



STEP 6 : After step 5 , run the follwing commands to run the jenkins

sudo systemctl enable jenkins
sudo systemctl start jenkins
sudo system status Jenkins



STEP 7 : Now your jenkins in run , go to localhost:8080 , you should see the administration page .

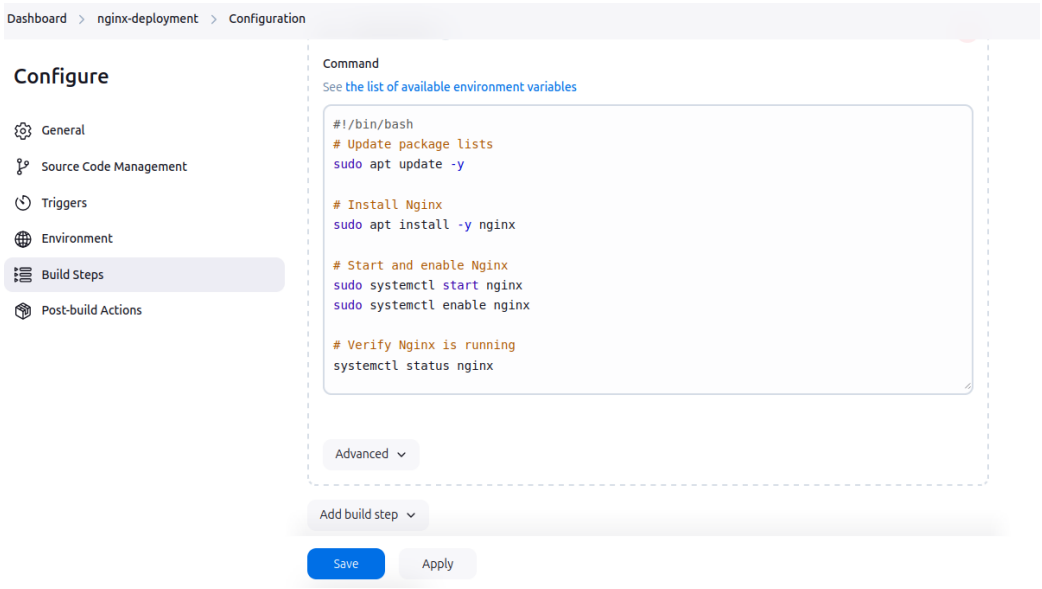
STEP 8 :In the terminal again type the following command ,

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

STEP 9: Now you have your password generated , enter this password in the admin page and enter basic details and finish necessary resources installation and you,ll be taken into the jenkins interface .

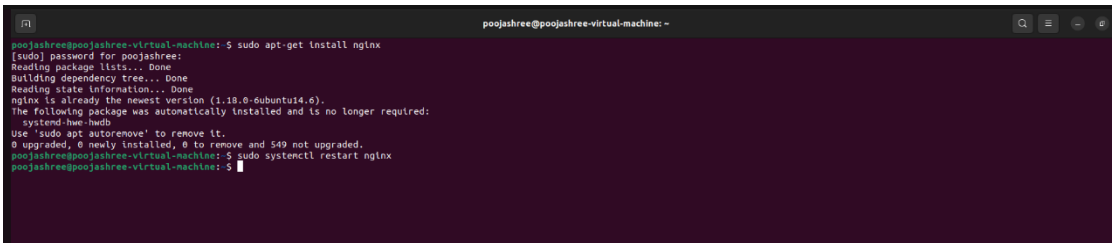
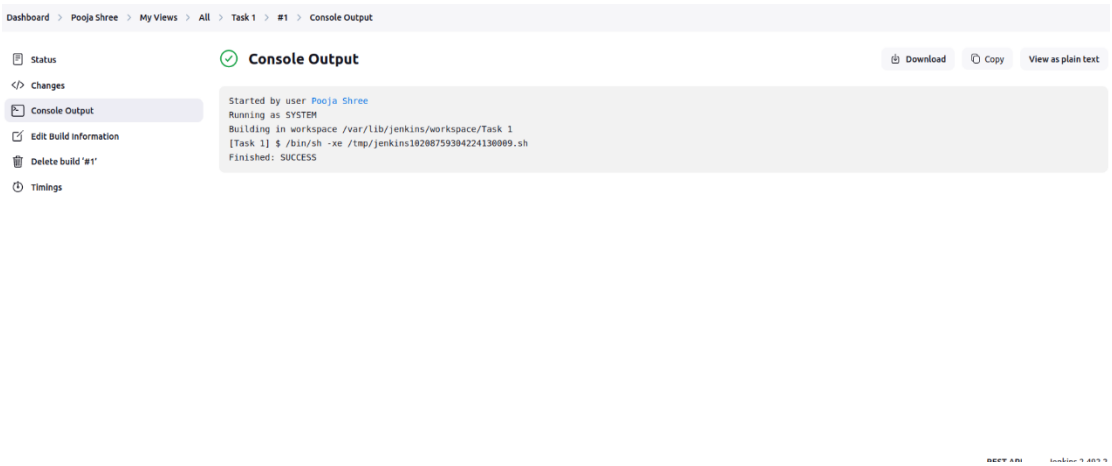
STEP 10: Give your project a name , and in configure in the shell , type in the following commands and save it .

```
#!/bin/bash
# Update package lists
sudo apt update -y

# Install Nginx
sudo apt install -y nginx

# Start and enable Nginx
sudo systemctl start nginx
sudo systemctl enable nginx

# Verify Nginx is running
systemctl status nginx
```



STEP 11: Go to your terminal and run the following command ,

```
sudo apt-get install nginx
sudo systemctl restart nginx
```



STEP 12: If you have a successful build , your console output looks like this !