

TASK 1-INSTALLING AND SETTING UP JENKINS

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Step 1: Run the Following Commands on the Terminal of Your Ubuntu Machine

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Open the terminal and execute the following commands to install Jenkins:

```
sudo apt update
sudo apt install openjdk-11-jdk -y
wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo tee
/usr/share/keyrings/jenkins-keyring.asc
echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]
https://pkg.jenkins.io/debian binary/" | sudo tee /etc/apt/sources.list.d/jenkins.list >
/dev/null
sudo apt update
sudo apt install jenkins -y
sudo systemctl start jenkins
sudo systemctl enable jenkins
```

Step 2: Get the IP Address of Your Ubuntu Machine

Run the following command to check your system's IP address:

```
ip addr
```

Step 3: Access Jenkins on Your Browser

Open a web browser and enter the following URL:

<http://localhost:8080>

Step 4: Create a Freestyle Project in Jenkins

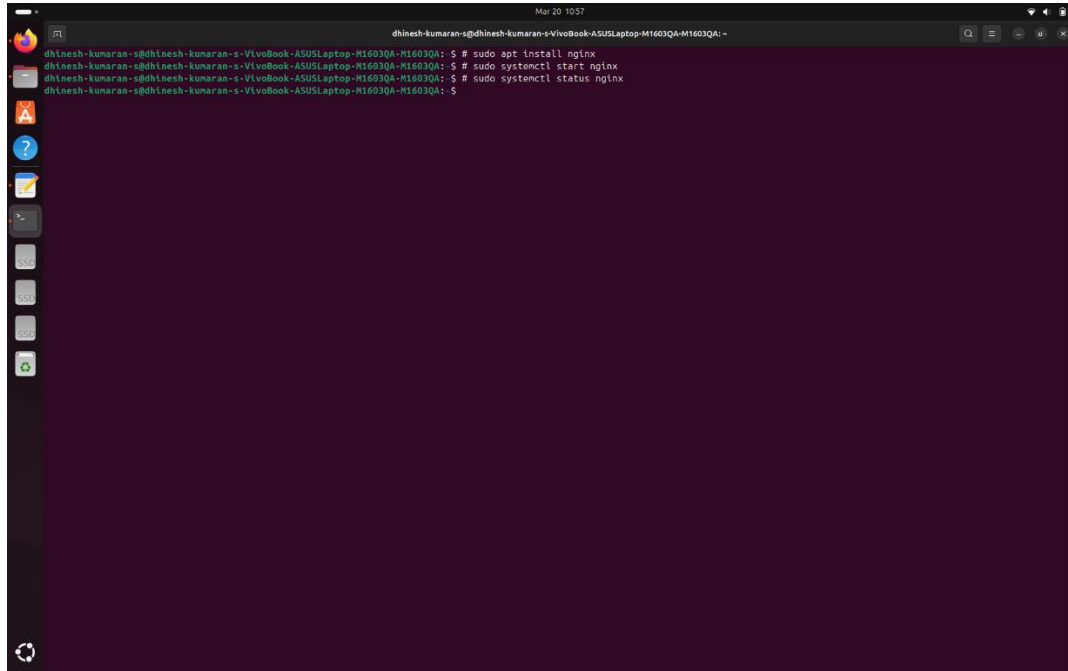
1. Click **"New Item"** on the Jenkins dashboard.
2. Enter a project name (e.g., **"Sample"**).
3. Select **"Freestyle project"** and click **OK**.

Step 5: Configure the Job to Install Nginx

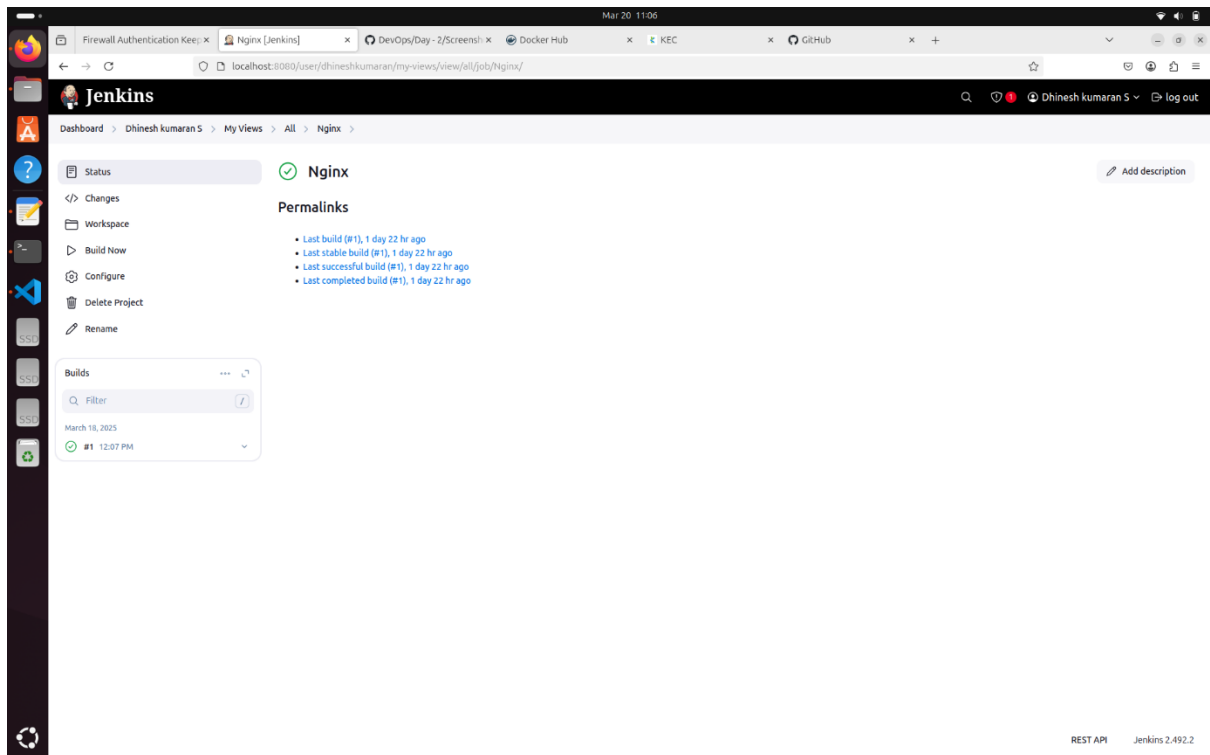
1. Scroll down to **"Build"** section.
2. Click **"Add build step"** → Select **"Execute Shell"**.
3. In the shell script box, enter the following command:

```
sudo apt update
```

```
sudo apt install nginx -y
```

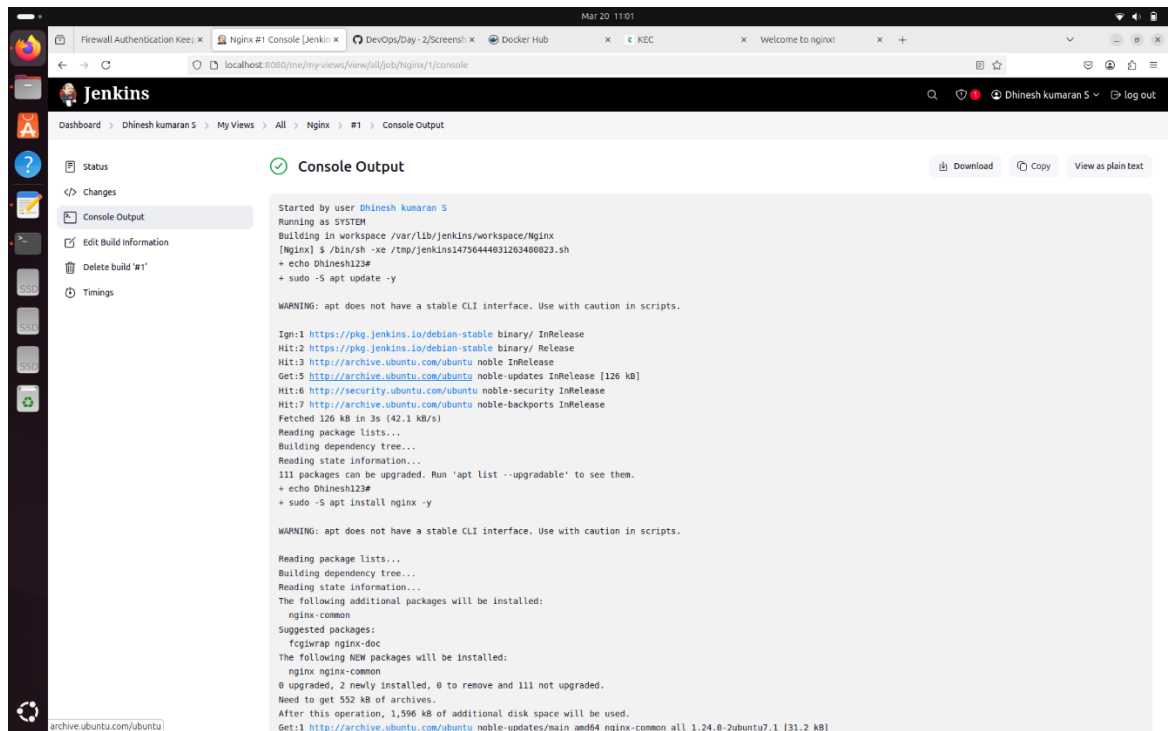


```
dhinesh-kumaran-s@dhinesh-kumaran-s-VivoBook-ASUSLaptop-M1603QA-M1603QA: ~$ sudo apt install nginx
dhinesh-kumaran-s@dhinesh-kumaran-s-VivoBook-ASUSLaptop-M1603QA-M1603QA: ~$ # sudo systemctl start nginx
dhinesh-kumaran-s@dhinesh-kumaran-s-VivoBook-ASUSLaptop-M1603QA-M1603QA: ~$ # sudo systemctl status nginx
dhinesh-kumaran-s@dhinesh-kumaran-s-VivoBook-ASUSLaptop-M1603QA-M1603QA: ~$
```



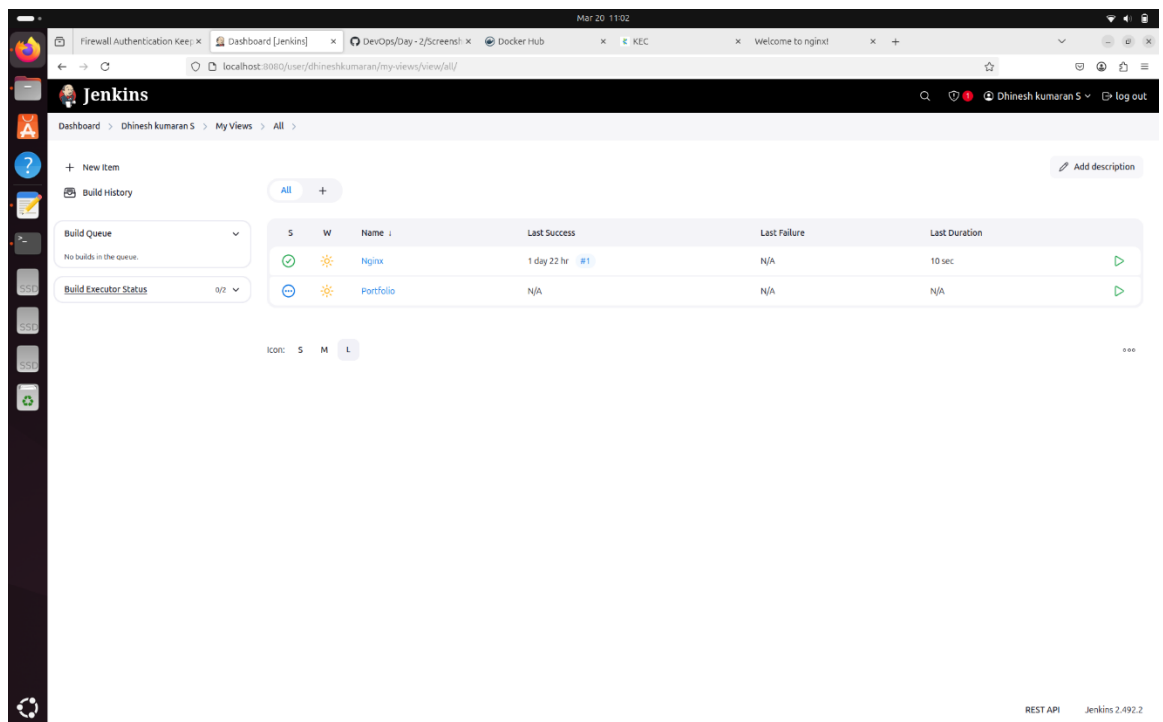
Step 6: Save and Run the Job

1. Click **"Save"** to apply changes.
2. Click **"Build Now"** to execute the job.



Step 7: Verify the Job Execution

1. Click on the job in Jenkins.
2. Select **"Console Output"** to view the installation logs.



Step 8: Verify Nginx Installation on Your Browser

1. Open a web browser.
2. Enter your server's IP address as follows:

`http://localhost`

If Nginx is successfully installed, you should see the **"Welcome to Nginx"** page.

