Task For DevOps

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1) Installation of Java is required for Jenkins

   Command:
   sudo apt update
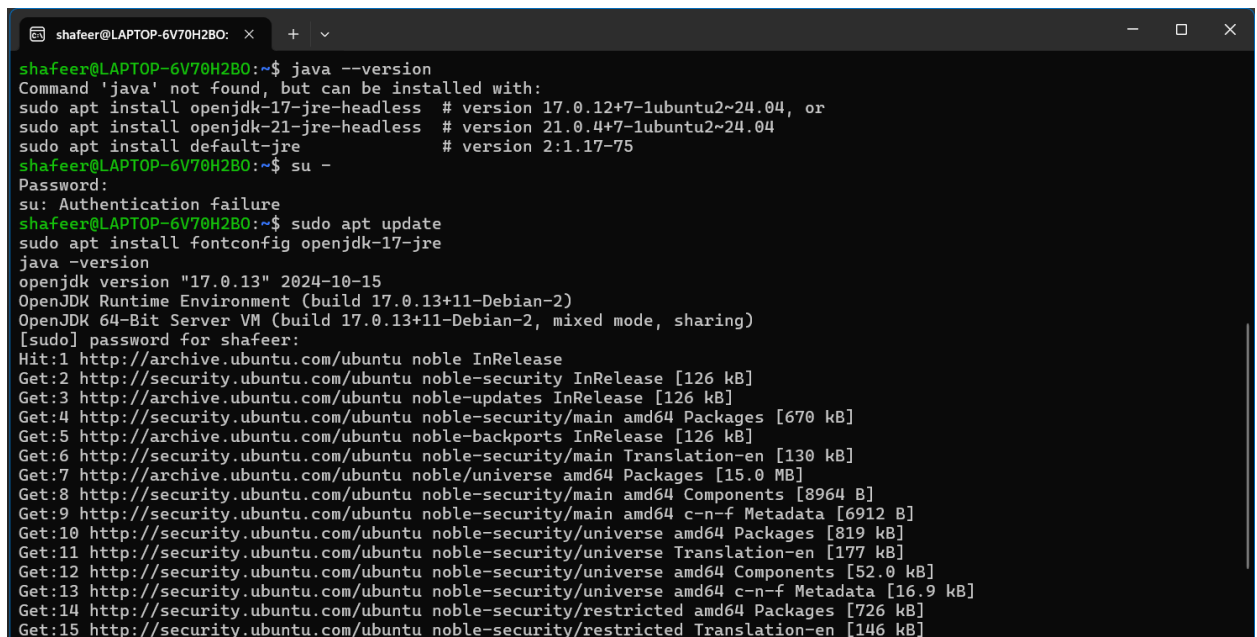   sudo apt install fontconfig openjdk-17-jre
   java -version
   openjdk version "17.0.13" 2024-10-15
   OpenJDK Runtime Environment (build 17.0.13+11-Debian-2)
   OpenJDK 64-Bit Server VM (build 17.0.13+11-Debian-2, mixed mode, sharing)

   ScreenShot:

   The Java JDK has been successfully installed

2) Install Jenkins

Command:

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

ScreenShot:

JenKins has been successfully installed

Now, Go to the Jenkins page in the Browser running in Localhost:8080 and login with your credentials

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

····························|

Continue

Install the Suggested plugins required

Proceed by Creating the First Admin User

Create First Admin User

Username

shafeer

Password

••••••

Confirm password

••••••

Full name

shafeerahamed

E-mail address

Skip and continue as admin   Save and Continue

Now Jenkins is ready to use
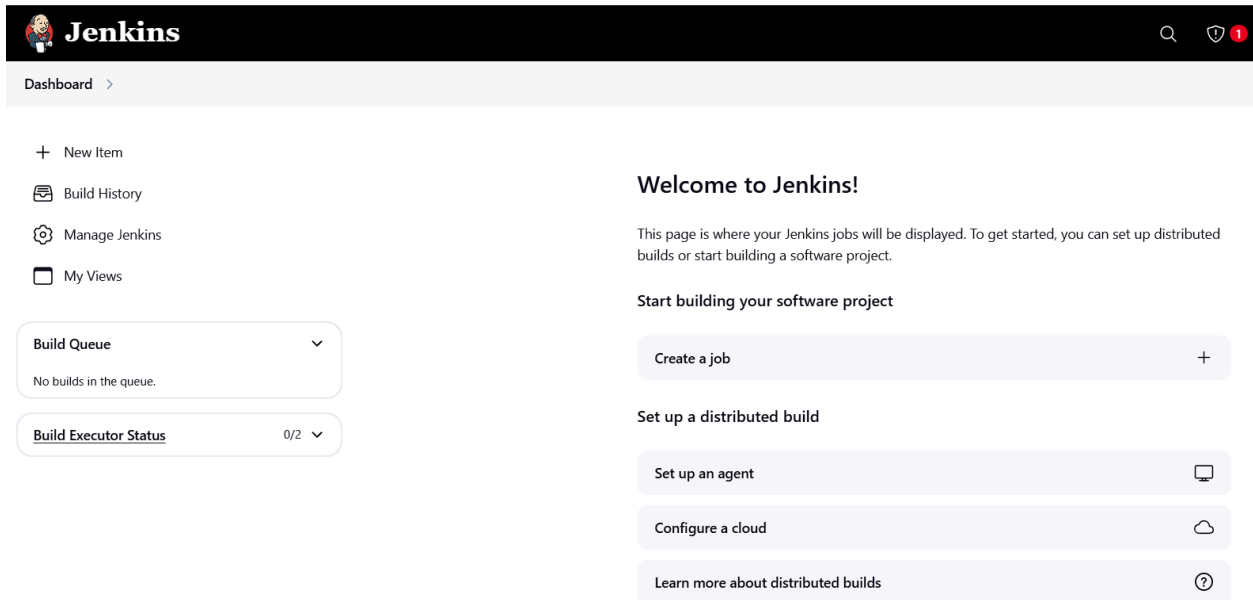
Jenkins is ready!
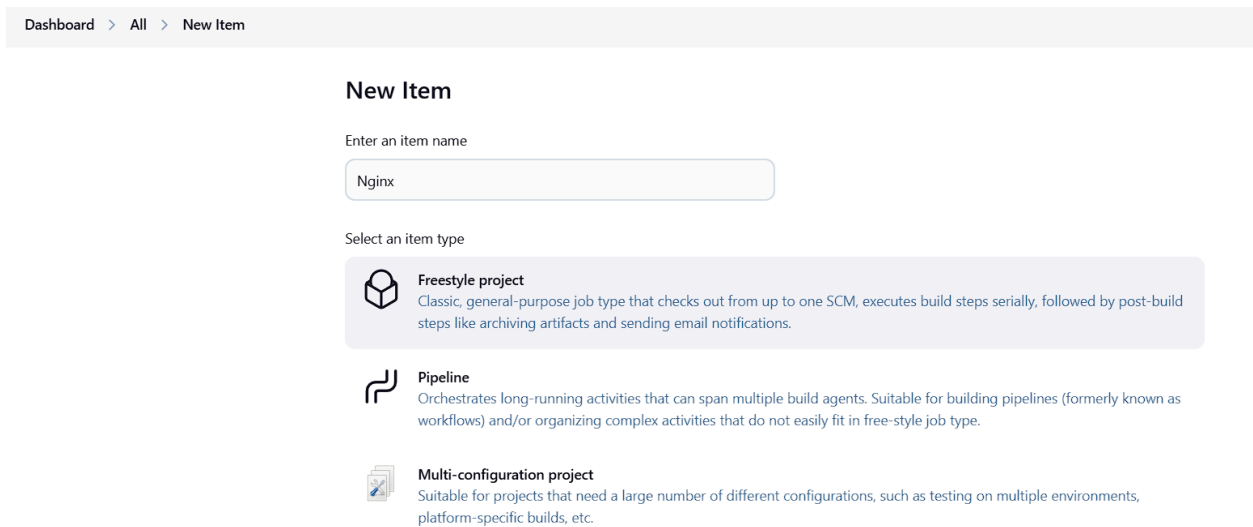
Your Jenkins setup is complete.
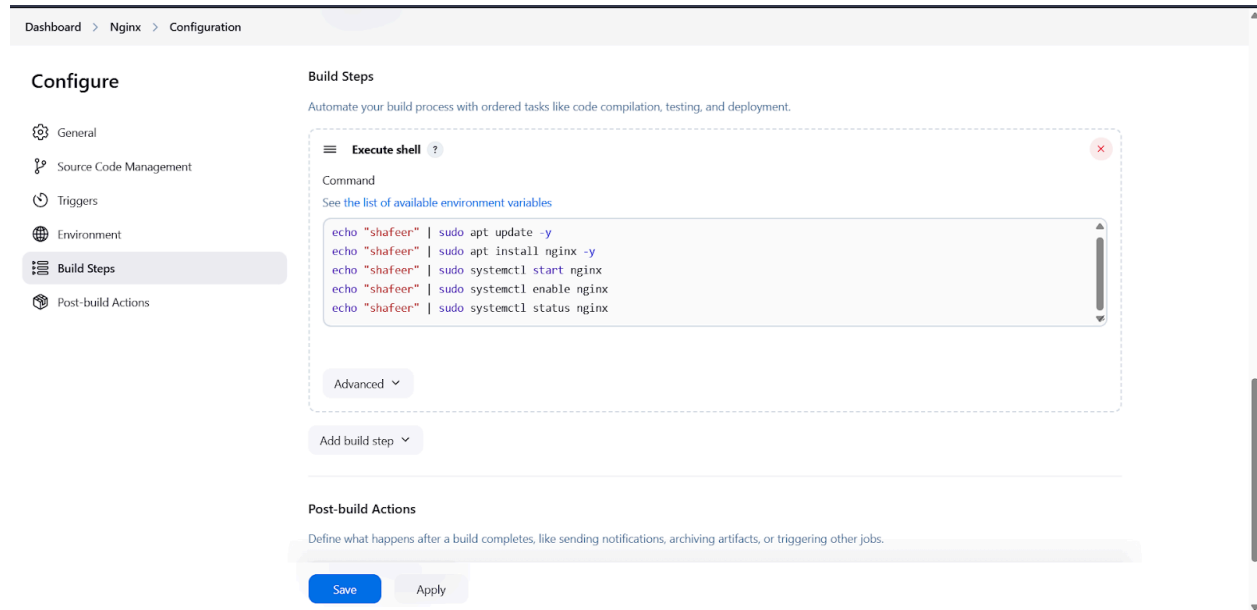
Start using Jenkins

Now create a new item

Give an item name and select the item type as free-style project

Build the steps using the commands

Dashboard > Nginx > Configuration

Configure

- ⚙ General
- ⑂ Source Code Management
- 🕐 Triggers
- 🌐 Environment
- ☰ Build Steps
- 📦 Post-build Actions

Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

☰ Execute shell ?

Command
See the list of available environment variables

```
echo "shafeer" | sudo apt update -y
echo "shafeer" | sudo apt install nginx -y
echo "shafeer" | sudo systemctl start nginx
echo "shafeer" | sudo systemctl enable nginx
echo "shafeer" | sudo systemctl status nginx
```

Advanced ⌄

Add build step ⌄

Post-build Actions

Define what happens after a build completes, like sending notifications, archiving artifacts, or triggering other jobs.

Save   Apply

After the successful compilation of the build, Nginx will be opened in localhost, once the ip address is given

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.