Task For DevOps

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:

```
System load: 0.24 Processes: 67
Usage of /: 0.1% of 1006.85GB Users logged in: 0
Memory usage: 5% IPv4 address for eth0: 172.21.118.36
Swap usage: 0%

This message is shown once a day. To disable it please create the
/root/.hushlogin file.
rootgSharan:-# 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 Runtime Environment (build 17.0.13+11-Debian-2)
OpenJDK 64-Bit Server VM (build 17.0.13+11-Debian-2)
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://archive.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-sackports InRelease [126 kB]
Ign:5 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages
Ign:6 http://archive.ubuntu.com/ubuntu noble/universe amd64 Components
Get:8 http://archive.ubuntu.com/ubuntu noble/universe amd64 Components
Get:9 http://archive.ubuntu.com/ubuntu noble/universe amd64 Components
Get:8 http://archive.ubuntu.com/ubuntu noble/universe amd64 Components
Get:9 http://saccurity.ubuntu.com/ubuntu noble/universe amd64 Packages
Ign:10 http://archive.ubuntu.com/ubuntu noble/universe amd64 Components
Get:10 http://saccurity.ubuntu.com/ubuntu noble-security/main amd64 Packages
Get:11 http://saccurity.ubuntu.com/ubuntu noble-security/main amd64 Components
Get:12 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components
```

The Java JDK has been successfully installed

2) Install Jenkins

Command:

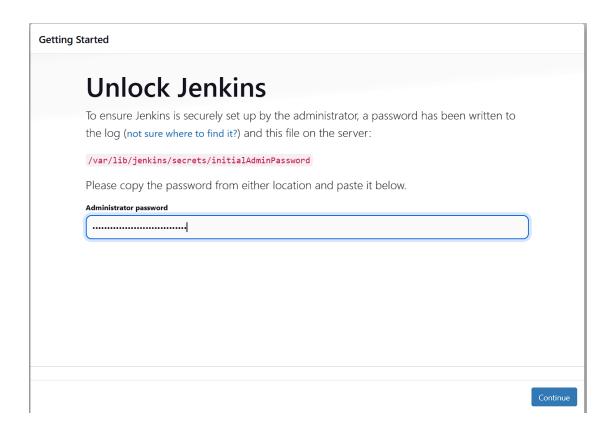
```
sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \
https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
```

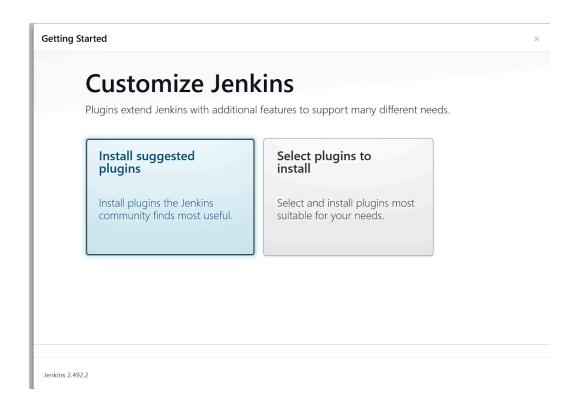
/etc/apt/sources.list.d/jenkins.list > /dev/null sudo apt-get update sudo apt-get install Jenkins

ScreenShot:

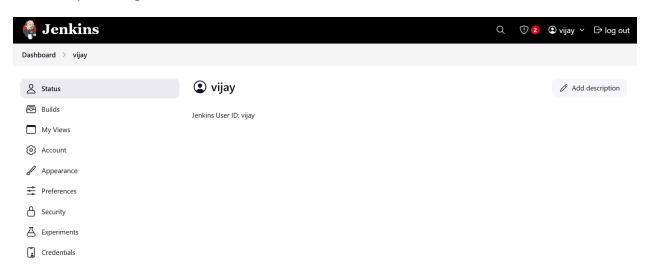
JenKins has been successfully installed

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

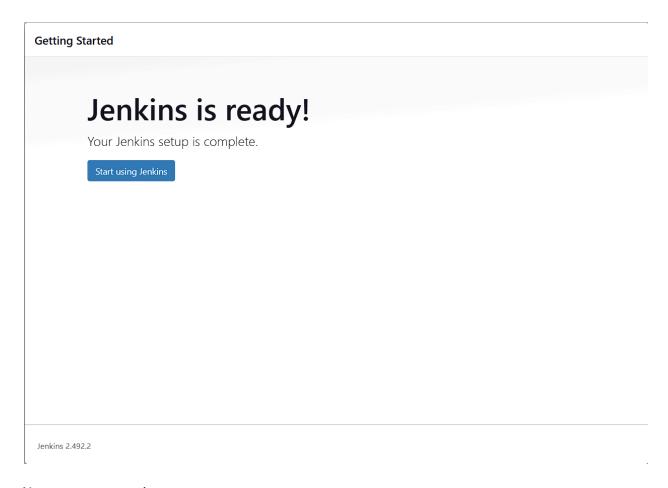




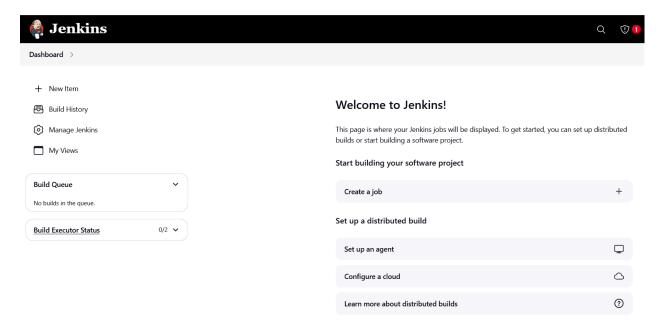
Proceed by Creating the First Admin User



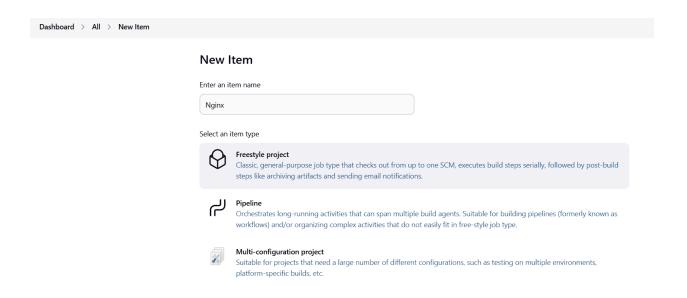
Now Jenkins is ready to use



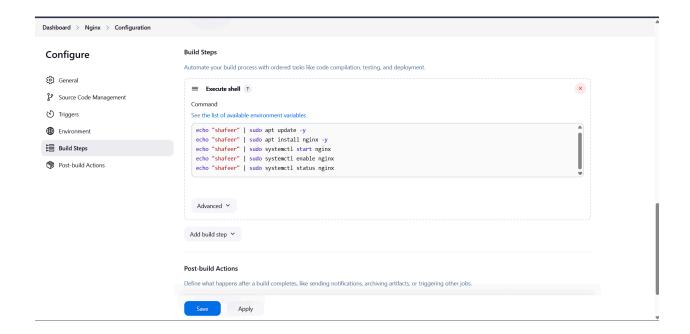
Now create a new item



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



Build the steps using the commands



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 $\underline{nginx.org}$. Commercial support is available at $\underline{nginx.com}$.

Thank you for using nginx.