Aim:

Installation and Configuration of Jenkins

Procedure and Screenshots.

Jenkins is an open source automation server that has become a crucial component in the likes of Kubernetes and GitOps. Jenkins enables the continuous integration and delivery of software. Jenkins includes a number of plugins to help the automation of building and deploying your applications.

Steps for Installation:

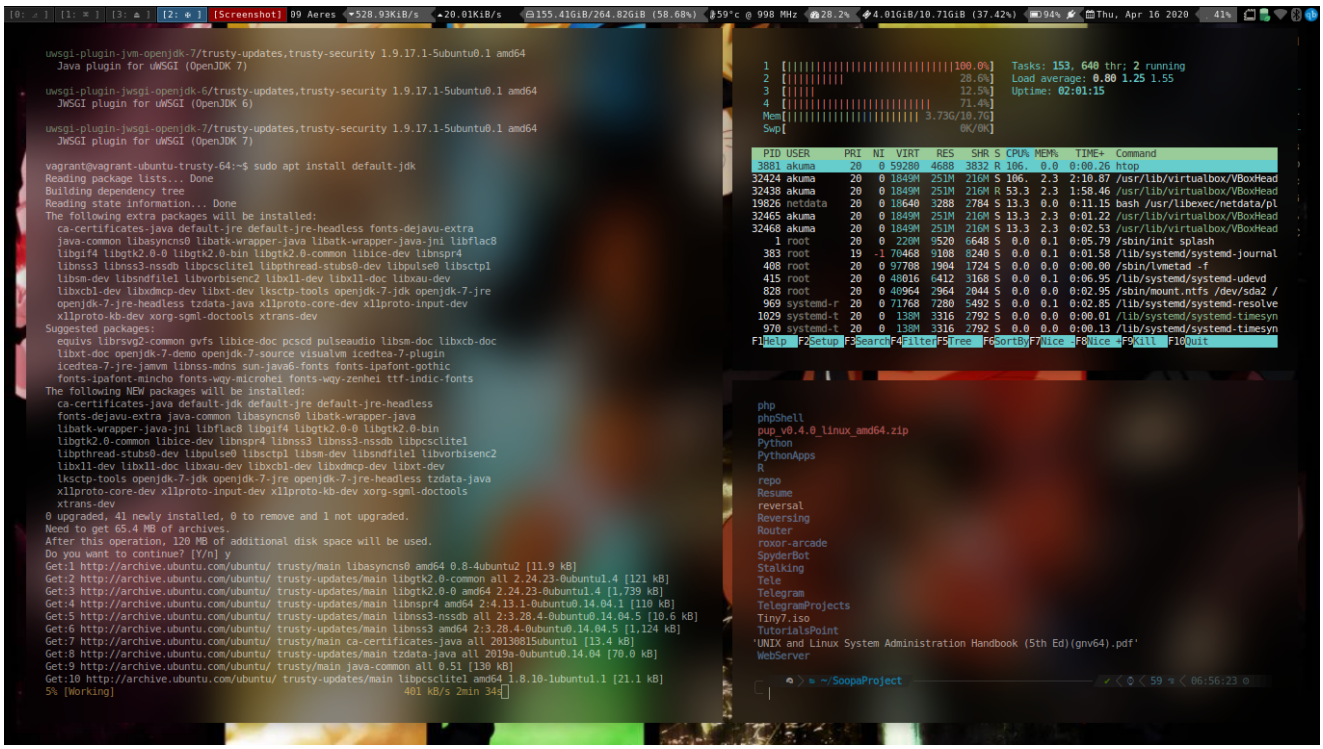
1. First of all, jenkins **needs** jdk, so on ubuntu vm of ours go ahead and issue:

```
sudo apt update && sudo apt install default-jdk

#if on ubuntu server, default-jdk-headless

#Once the installation finishes check the java version by,

java -version.
```



2. Download and install the necessary GPG key with the command

```
wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key add
-
```

3. Add the necessary repository with the command

```
sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ >
/etc/apt/sources.list.d/jenkins.list'
```

4. Add the universe repository with the command

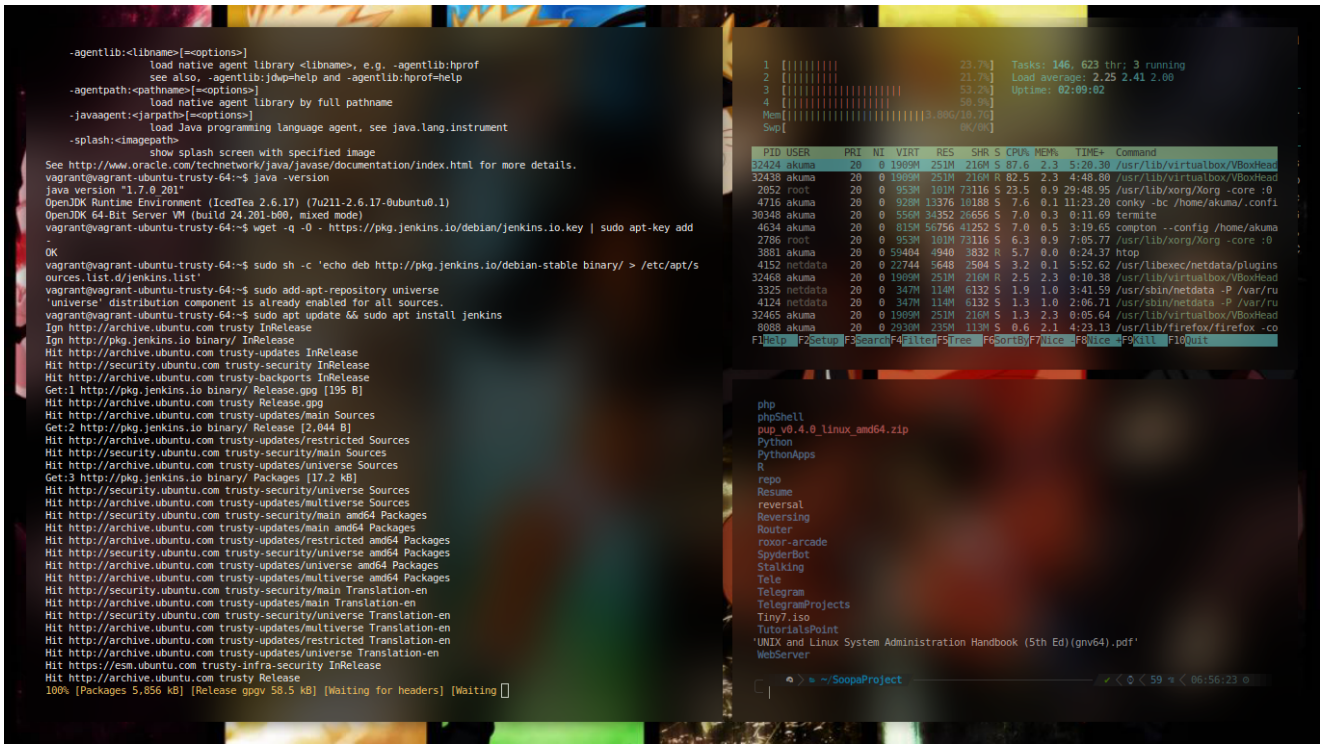
```
sudo add-apt-repository universe
```

5. Update apt with the command `sudo apt-get update`

6. Install Jenkins with the command

```
sudo apt-get install jenkins -y
```

Allow the installation to complete.

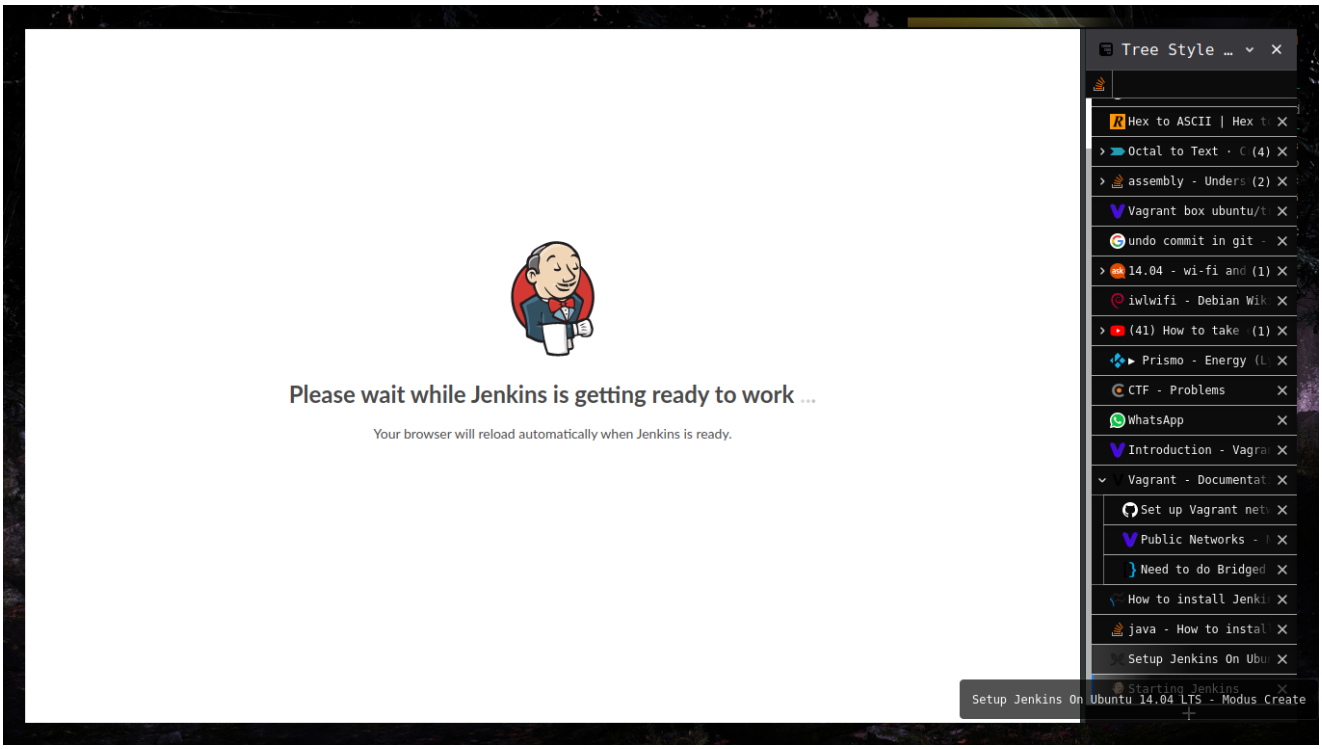


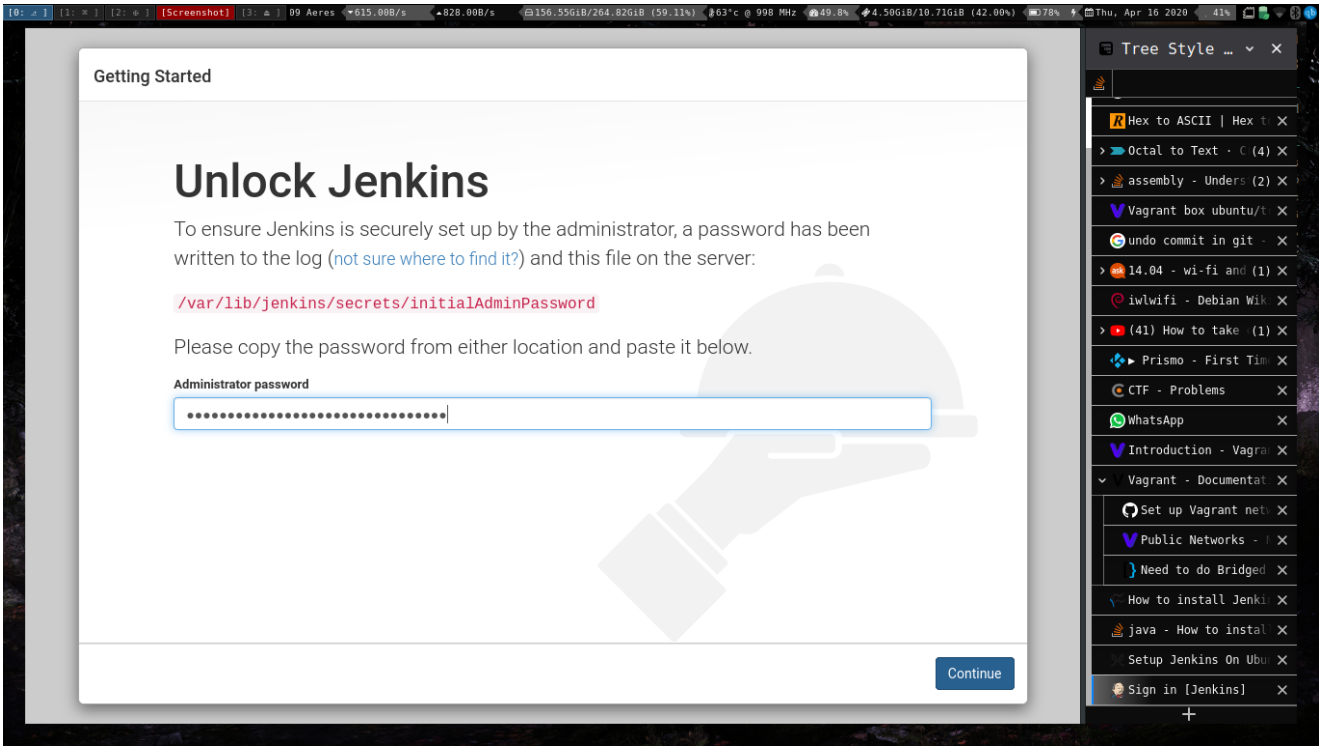
How to access Jenkins?

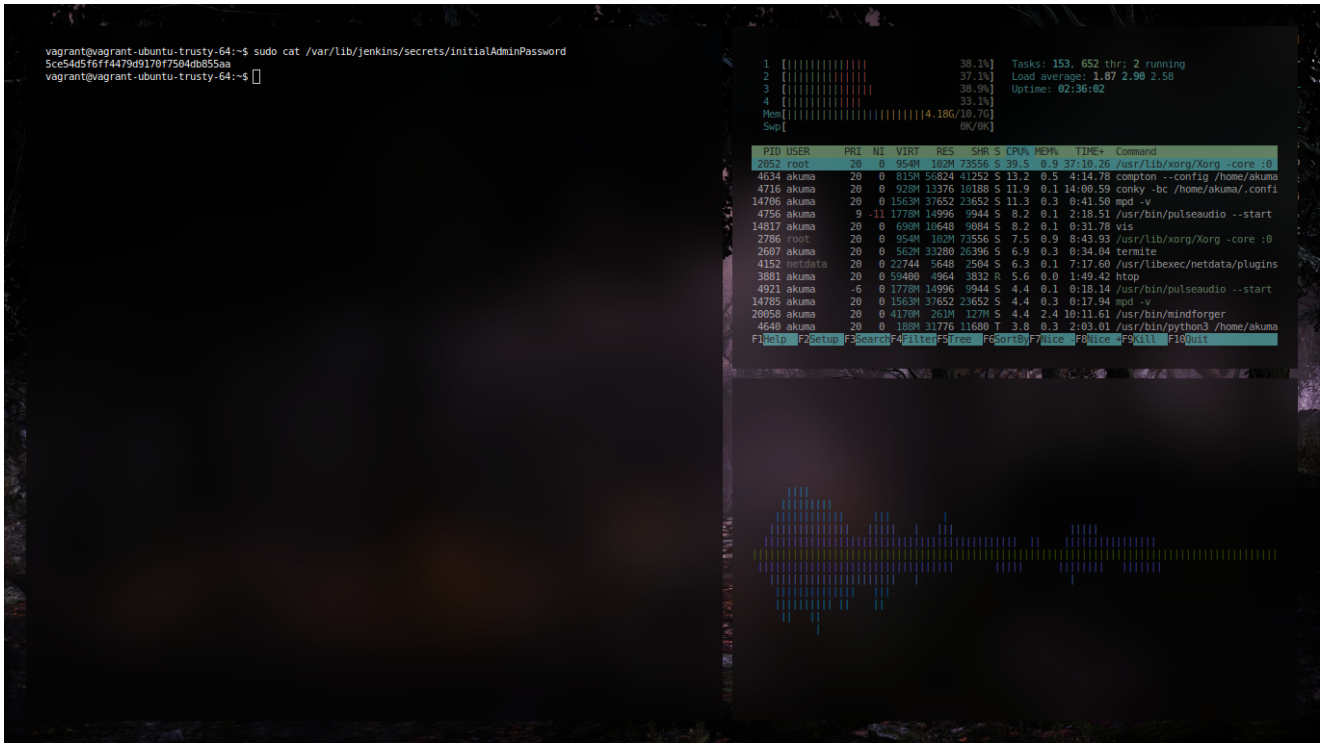
1. Open a web browser and point it to http://SERVER_IP:8080 (where SERVER_IP is the IP address of the hosting server).

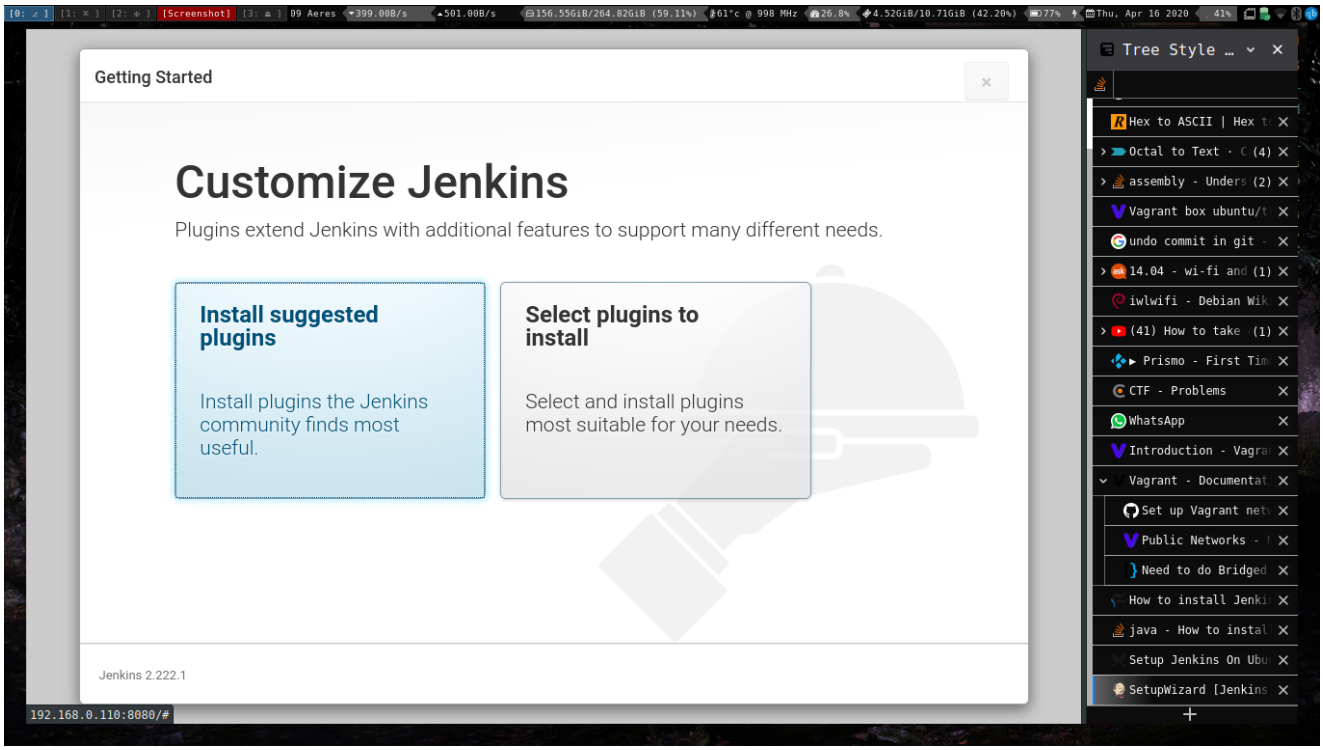
2. You will then be prompted to copy and paste a password that was created during the Jenkins installation. To retrieve that password, go back to the terminal window and issue the command:

```
sudo less /var/lib/jenkins/secrets/initialAdminPassword
```



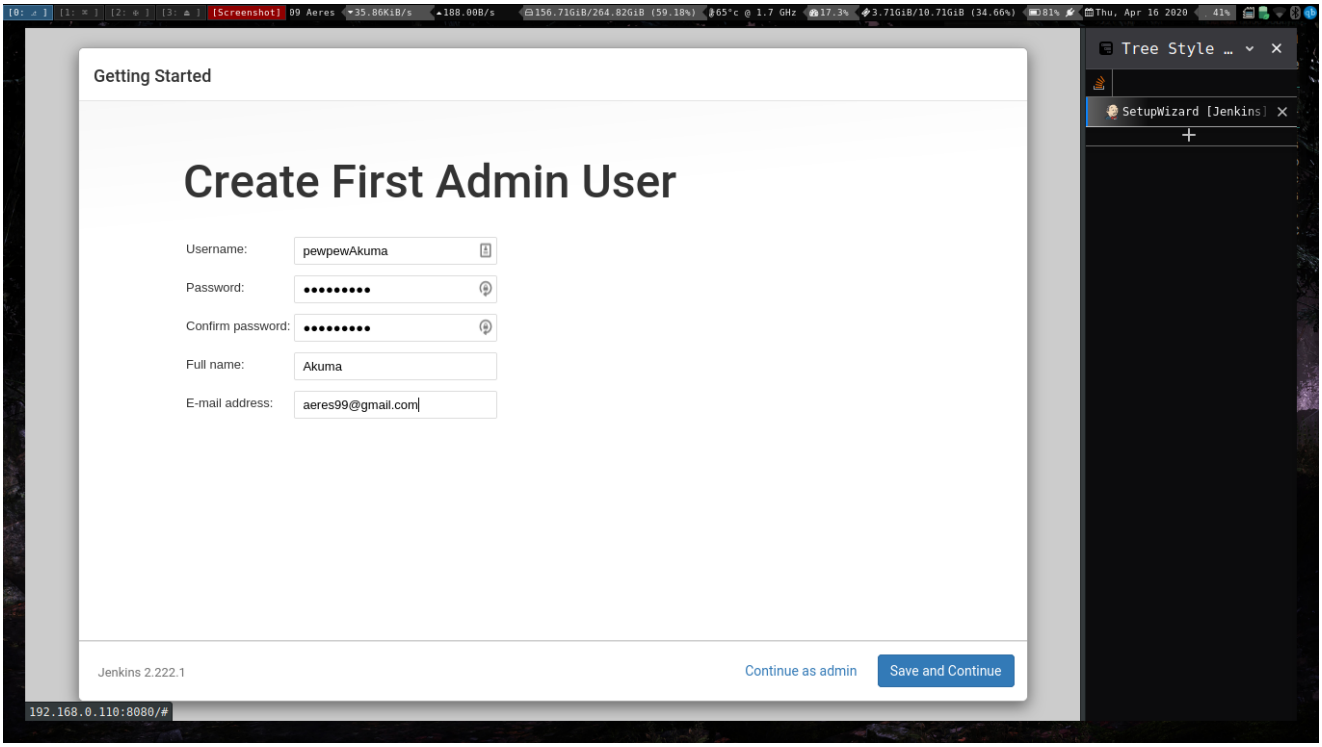






Choose suggested plugins and then

Create the first user



Set the deafult path and you will be set to roll with jenkins.