

## Steps to Install Java, Maven and Jenkins

- Login into Ubuntu machine
- Perform general updated of Ubuntu repository.

```
sudo apt update
```

```
sudo apt -y upgrade
```

- Install Java 8

```
sudo apt -y install openjdk-8-jdk
```

- Install Maven

```
sudo apt -y install maven
```

## Install Jenkins as service

- Get the Key and Jenkins repo

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

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

- Get the updates

```
sudo apt update
```

- Install Jenkins

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

- Add Jenkins user privileges to sudo without password:

```
sudo sh -c 'echo jenkins ALL=\(ALL\) NOPASSWD:ALL >> /etc/sudoers'
```

- To check the status of Jenkins service (this step is optional if you want to check the status of Jenkins though it should be already up and running)

```
sudo systemctl status jenkins
```

- Open Chrome/firefox and go to **(See to it that firewall rules on cloud network allows incoming on port 8080)**:

<public IP of VM>:8080

- Below screen would get opened

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

- Copy the contents of file using command “sudo cat <file\_name\_with\_path>”

```
beniwal29@devops-demo:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
924789d913c54f9191b7dd1505700bad
```

- Specify the copied password in appropriate column and click continue

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

Administrator password

Continue

- Click on “Install suggested plugins”

## Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

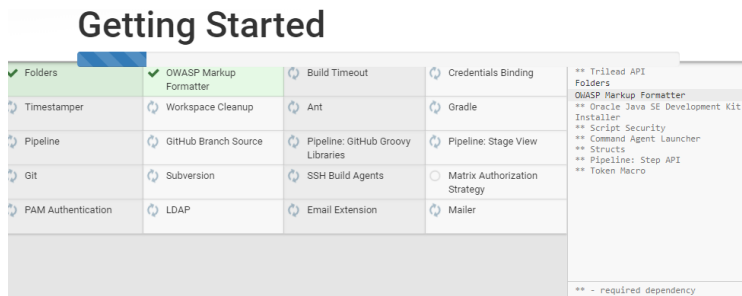
### Install suggested plugins

Install plugins the Jenkins community finds most useful.

### Select plugins to install

Select and install plugins most suitable for your needs.

- Let the below screen finish all installations



- Specify various values (e.g. user and password as admin) and click on Save and Continue.

## Create First Admin User

Username:

Password:

Confirm password:

Full name:

E-mail address:

3 [Continue as admin](#) [Save and Continue](#)

- Click on Save and Finish:

### Instance Configuration

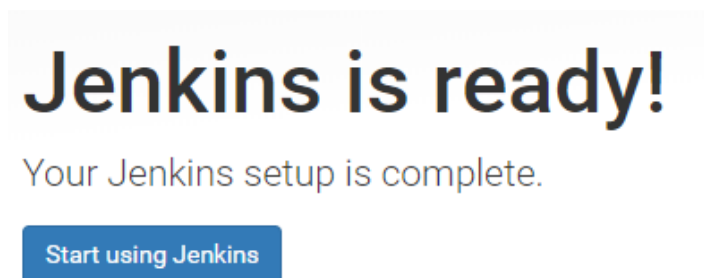
Jenkins URL:

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD\_URL environment variable provided to build steps.

The proposed default value shown is not saved yet and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

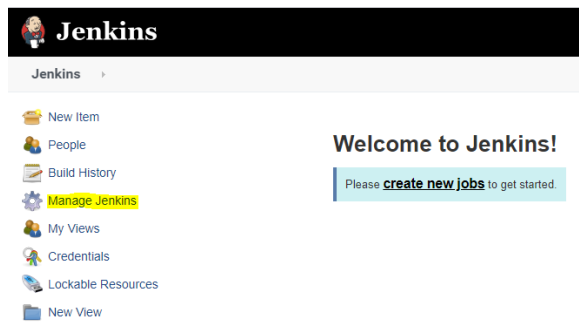
13 [Not now](#) [Save and Finish](#)

- Click on “Start using Jenkins”

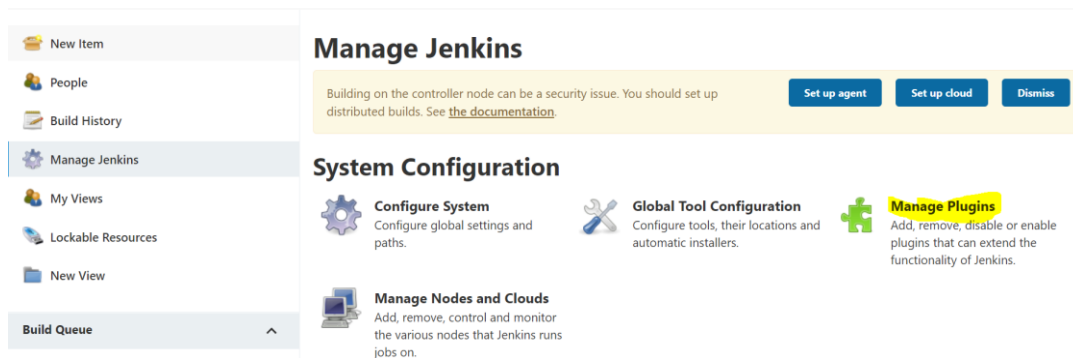


- Now initial setup is done and let's move to additional setup

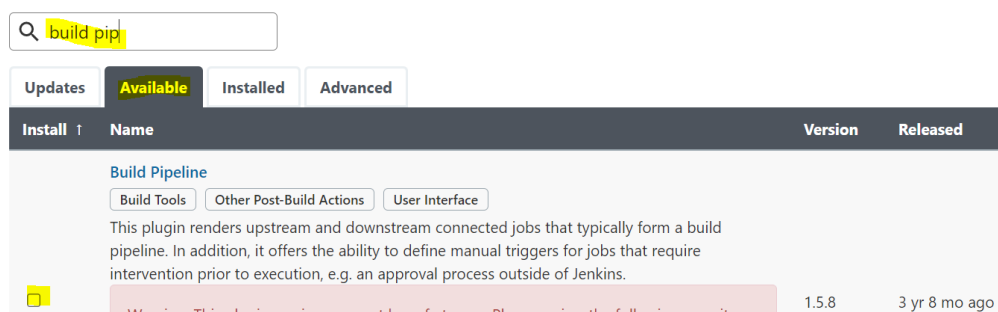
- Click on “Manage Jenkins”



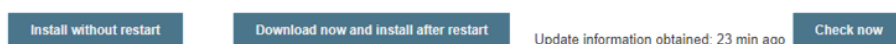
- Click on Manage Plugins



- Click On Available and Specify “Build Pipeline” in find box and click on respective plugin



- Finally click “Download now and install after restart”





- Let the Jenkins restart after you have clicked highlighted checkbox


jQuery

Build Pipeline


Restarting Jenkins

 Pending

 Pending

 Pending

➡ [Go back to the top page](#)  
(you can start using the installed plugins right away)

➡  Restart Jenkins when installation is complete and no jobs are running

➤ Now you can start working on Jenkins