

Jenkins

Demonstration 1 – Jenkins Installation Guide



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Installation Steps:

Step 1: You should have java 7 or Java 8 installed in your system before starting the installation of Jenkins. Check if installed by using below command

java -version

```
root@edureka-VirtualBox:-# java -version
openjdk version "1.8.0_171"
OpenJDK Runtime Environment (build 1.8.0_171-8u171-b11-0ubuntu0.17.10.1-b11)
OpenJDK 64-Bit Server VM (build 25.171-b11, mixed mode)
root@edureka-VirtualBox:-#
```

Step 2: If it's not showing java version installed then you have to download it for your machine. Use below commands for that.

sudo apt-get update && apt-get upgrade

sudo apt-get install default-jdk

Step 3: To use the Debian package repository you need to add a key. Use the command given below.

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

Change the (–) command after key add in the terminal or it will cause some issue.



```
File Edit View Search Terminal Help
root@edureka-VirtualBox:-# wget -q -O - https://pkg.jenkins.io/debian/jenkins.io
.key | sudo apt-key add -
OK
root@edureka-VirtualBox:-#
```

Step 4: Then you need to add the below entry in /etc/apt/sources.list. Use the below command to complete the required job:

echo 'deb https://pkg.jenkins.io/debian binary/">> /etc/apt/sources.list

Please change the single quotes on terminal otherwise it will cause some issue.

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```
root@edureka-VirtualBox: -

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root@edureka-VirtualBox:~# echo 'deb https://pkg.jenkins.io/debian binary/' >> /etc/apt/sources.list

root@edureka-VirtualBox:-#
```

Step 5: Now you need to update local package index and then you have to install Jenkins by using below commands:

sudo apt-get update

```
root@edureka-VirtualBox:~

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root@edureka-VirtualBox:~# apt-get update

Hit:1 http://security.ubuntu.com/ubuntu artful-security InRelease

Hit:2 http://in.archive.ubuntu.com/ubuntu artful InRelease

Hit:3 http://in.archive.ubuntu.com/ubuntu artful-updates InRelease

Hit:4 http://in.archive.ubuntu.com/ubuntu artful-backports InRelease

Ign:5 https://pkg.jenkins.io/debian binary/ InRelease

Hit:6 https://pkg.jenkins.io/debian binary/ Release

Reading package lists... Done
```



sudo apt-get install jenkins

```
root@edureka-VirtualBox: -
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root@edureka-VirtualBox:-# apt-get install jenkins
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
0 upgraded, 1 newly installed, 0 to remove and 10 not upgraded.
Need to get 0 B/75.5 MB of archives.
After this operation, 75.9 MB of additional disk space will be used.
Selecting previously unselected package jenkins.
(Reading database ... 131865 files and directories currently installed.)
Preparing to unpack .../archives/jenkins_2.144_all.deb ...
Unpacking jenkins (2.144) ...
Setting up jenkins (2.144) ...
Processing triggers for ureadahead (0.100.0-20) ...
Processing triggers for systemd (234-2ubuntu12.4) ...
root@edureka-VirtualBox:~#
```

Step 6: Now you need to start the Jenkins service and you check the status of Jenkins if its running or not. Use the command given below:

service jenkins start

systemctl status jenkins

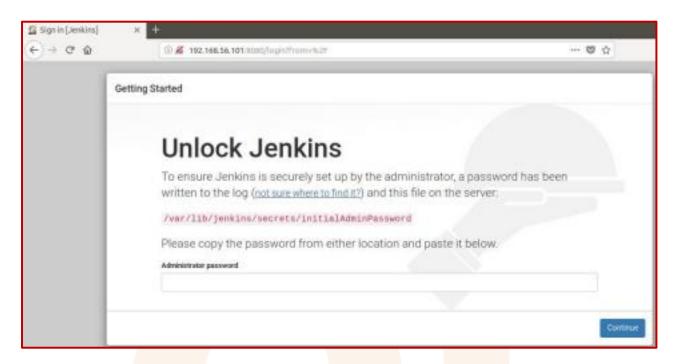
```
root@edureka-VirtualBox:-# service jenkins start
root@edureka-VirtualBox:-# systemctl status jenkins

jenkins.service - LSB: Start Jenkins at boot time
Loaded: loaded (/etc/init.d/jenkins; generated; vendor preset; enabled)
Active: active (exited) since Thu 2018-10-04 11:36:32 IST; Imin 43s ago
Docs: man:systemd-sysv-generator(8)

Oct 04 11:36:31 edureka-VirtualBox systemd[1]: Starting LSB: Start Jenkins at boot time...
Oct 04 11:36:31 edureka-VirtualBox jenkins[6664]: Correct Java version found
Oct 04 11:36:31 edureka-VirtualBox jenkins[6664]: * Starting Jenkins Automation Server jenkins
Oct 04 11:36:31 edureka-VirtualBox su[6697]: Successful su for jenkins by root
Oct 04 11:36:31 edureka-VirtualBox su[6697]: + ??? root:jenkins
Oct 04 11:36:31 edureka-VirtualBox su[6697]: pam_unix(su:session): session opened for user jenkins by (uid=0)
Oct 04 11:36:32 edureka-VirtualBox systemd[1]: Started LSB: Start Jenkins at boot time.
root@edureka-VirtualBox:-#
```



Step 7: Go to your browser and go to Ipaddress:8080. In my case it's 192.168.56.101:8080. The port on which Jenkins is running is 8080.



Step 8: Now use the below command to get the password, copy it and paste it within the box shown above.

cat /var/lib/jenkins/secrets/initialAdminPassword



Now you can start working on Jenkins.

root@edureka-VirtualBox:
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root@edureka-VirtualBox:~# cat /var/lib/jenkins/secrets/initialAdminPassword

87e5c3266cf2482a880d671812231270

root@edureka-VirtualBox:~#



Conclusion

We have successfully installed Jenkins on our system