

Jenkins Installation Guide

Installation Notes

edureka!

edureka!

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Installation Notes:

Jenkins:

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 its 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.

```
root@edureka-VirtualBox: ~  
File Edit View Search Terminal Help  
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: ~  
File Edit View Search Terminal Help  
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: ~  
File Edit View Search Terminal Help  
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:  
  jenkins  
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; 1min 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 jenkins[6664]: ...done.
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
```

```
root@edureka-VirtualBox: ~
File Edit View Search Terminal Help
root@edureka-VirtualBox:~# cat /var/lib/jenkins/secrets/initialAdminPassword
07e5c3266cf2482a880d671812231270
root@edureka-VirtualBox:~#
```

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](#)

Getting Started

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.

Jenkins 2.144

Getting Started

Getting Started

✓ Folders	✓ OWASP Markup Formatter	✓ Build Timeout	✓ Credentials Binding	** Token Macro
✓ Timestamper	✓ Workspace Cleanup	Ant	Gradle	** Credentials
Pipeline	GitHub Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View	** SSH Credentials
Git	Subversion	SSH Slaves	Matrix Authorization Strategy	** Plain Credentials
PAM Authentication	LDAP	Email Extension	Mailer	Credentials Binding
				Timestamper
				** Pipeline: Supporting APIs
				** Durable Task
				** Pipeline: Nodes and Processes
				** Matrix Project
				** Resource Disposer
				Workspace Cleanup
				Ant
				** - required dependency

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Now you can start working on Jenkins.

