

# Jenkins Installation Guide

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## 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 ** SSH Credentials ** Plain Credentials
Pipeline	GitHub Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View	Credentials Binding
Git	Subversion	SSH Slaves	Matrix Authorization Strategy	Timestamper
PAM Authentication	LDAP	Email Extension	Mailer	** 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.

