

# Jerkins installation on Ubuntu

Enter the command **sudo apt update** which is used to know weather the system package manager is up to date.

**Sudo:** it stands for superuser do which allows a user with the permission.

**Apt:** it stands for Advanced Package Tool,it is used to interact with the packaging system. It is like a repository in the Vm.

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```
DevOpsVm3@DevOpsVm3:~$ clear
DevOpsVm3@DevOpsVm3:~$ sudo apt update
Hit:1 http://azure.archive.ubuntu.com/ubuntu xenial InRelease
Hit:2 http://azure.archive.ubuntu.com/ubuntu xenial-updates InRelease
Hit:3 http://azure.archive.ubuntu.com/ubuntu xenial-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu xenial-security InRelease
Hit:5 http://ppa.launchpad.net/gencfsm/ppa/ubuntu xenial InRelease
Ign:6 https://pkg.jenkins.io/debian binary/ InRelease
Hit:7 https://pkg.jenkins.io/debian binary/ Release
Get:8 https://pkg.jenkins.io/debian binary/ Release.gpg [195 B]
Ign:8 https://pkg.jenkins.io/debian binary/ Release.gpg
Reading package lists... Done
W: GPG error: https://pkg.jenkins.io/debian binary/ Release: The following signatures couldn't be verified because the public key is not available: NO_PUBKEY 9B7D32F2D50582E6
E: The repository 'https://pkg.jenkins.io/debian binary/ Release' is not signed.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
```

**sudo apt install openjdk-8-jdk :** this command is used to install java in the Ubuntu.

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```
ils.
DevOpsVm3@DevOpsVm3:~$ sudo apt install openjdk-8-jdk
Reading package lists... Done
Building dependency tree
Reading state information... Done
openjdk-8-jdk is already the newest version (8u242-b08-0ubuntu3~16.04).
openjdk-8-jdk set to manually installed.
The following package was automatically installed and is no longer required:
  grub-pc-bin
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
```

**Java -version:** this command is used to get the java version installed in the Ubuntu.

The version of java installed is “1.8.0\_242”.

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```
DevOpsVm3@DevOpsVm3:~$ java -version
openjdk version "1.8.0_242"
OpenJDK Runtime Environment (build 1.8.0_242-8u242-b08-0ubuntu3~16.04-b08)
OpenJDK 64-Bit Server VM (build 25.242-b08, mixed mode)
```

**Wget:** this command is used for downloading files from the Internet.

**Wget -q -O - <https://pkg.jenkins.io/debian/jenkins-ci.org.key> | sudo apt-key add -:** this command is used to import the key and packages from the repository.

The output of the above command is Ok which means that the key has been successfully imported and packages from the repository.

```
DevOpsVm3@DevOpsVm3:~$ wget -q -O - https://pkg.jenkins.io/debian/jenkins-ci.org
.key | sudo apt-key add -
OK
```

**Sudo sh -c ‘echo deb <http://pkg.jenkins.io/debian-stable binary/> > /etc/apt/sources.list.d/Jenkins.list’**

```
DevOpsVm3@DevOpsVm3:~$ sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable
binary/ > /etc/apt/sources.list.d/jenkins.list'
```

Once the Jenkins repository is enabled and keys and sources are added, update the apt package list using **sudo apt-get update**.

```
DevOpsVm3@DevOpsVm3:~$ sudo apt-get update
Ign:1 http://pkg.jenkins.io/debian-stable binary/ InRelease
Get:2 http://pkg.jenkins.io/debian-stable binary/ Release [2,044 B]
Get:3 http://pkg.jenkins.io/debian-stable binary/ Release.gpg [195 B]
Hit:4 http://azure.archive.ubuntu.com/ubuntu xenial InRelease
Hit:5 http://azure.archive.ubuntu.com/ubuntu xenial-updates InRelease
Hit:6 http://azure.archive.ubuntu.com/ubuntu xenial-backports InRelease
Get:7 http://pkg.jenkins.io/debian-stable binary/ Packages [17.2 kB]
Ign:8 https://pkg.jenkins.io/debian binary/ InRelease
Hit:9 https://pkg.jenkins.io/debian binary/ Release
Get:10 https://pkg.jenkins.io/debian binary/ Release.gpg [195 B]
Hit:11 http://security.ubuntu.com/ubuntu xenial-security InRelease
Hit:12 http://ppa.launchpad.net/gencfsm/ppa/ubuntu xenial InRelease
Fetched 19.6 kB in 0s (29.8 kB/s)
Reading package lists... Done
```

**Sudo apt-get install Jenkins:** this command is used to install the Jenkins on to the Ubuntu.

```
DevOpsVm3@DevOpsVm3:~$ sudo apt-get install jenkins
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following package was automatically installed and is no longer required:
  grub-pc-bin
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  daemon
The following NEW packages will be installed:
  daemon jenkins
0 upgraded, 2 newly installed, 0 to remove and 3 not upgraded.
Need to get 65.4 MB/65.5 MB of archives.
After this operation, 66.5 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://pkg.jenkins.io/debian binary/ jenkins 2.229 [65.4 MB]
Fetched 65.4 MB in 1s (34.7 MB/s)
Selecting previously unselected package daemon.
(Reading database ... 129364 files and directories currently installed.)
Preparing to unpack .../daemon_0.6.4-1_amd64.deb ...
Unpacking daemon (0.6.4-1) ...
Selecting previously unselected package jenkins.
Preparing to unpack .../archives/jenkins_2.229_all.deb ...
Unpacking jenkins (2.229) ...
Processing triggers for man-db (2.7.5-1) ...
Processing triggers for ureadahead (0.100.0-19.1) ...
Processing triggers for systemd (229-4ubuntu21.27) ...
Setting up daemon (0.6.4-1) ...
Setting up jenkins (2.229) ...
sent invalidate(group) request, exiting
sent invalidate(passwd) request, exiting
sent invalidate(group) request, exiting
sent invalidate(group) request, exiting
sent invalidate(group) request, exiting
sent invalidate(passwd) request, exiting
sent invalidate(group) request, exiting
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sent invalidate(group) request, exiting
```

After the execution of the above command I faced a issue because I did not use the command **sudo systemctl start Jenkins** instead I directly used **sudo systemctl status Jenkins** so I was getting error inactive(dead).

```
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Processing triggers for systemd (229-4ubuntu21.27) ...
DevOpsVm3@DevOpsVm3:~$ systemctl status Jenkins
● Jenkins.service
   Loaded: not-found (Reason: No such file or directory)
   Active: inactive (dead)
```

**Sudo systemctl status Jenkins:** this command is used to get the status of the Jenkins whether the Jenkins is active or inactive.

```
DevOpsVm3@DevOpsVm3:~$ sudo systemctl status jenkins
● jenkins.service - LSB: Start Jenkins at boot time
   Loaded: loaded (/etc/init.d/jenkins; bad; vendor preset: enabled)
   Active: active (exited) since Mon 2020-03-30 10:31:02 UTC; 24min ago
     Docs: man:systemd-sysv-generator(8)
    Tasks: 0
   Memory: 0B
      CPU: 0
```

After successful installation of java and Jenkins on Ubuntu go to chrome in the url type the localhost and the port number that is 40.123.31.177:8080.

In my case localhost is “40.123.31.177” and port number “8080”.

After enter the url the window should display “welcome to Jenkins”.

