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 signa
tures couldn't be verified because the public key is not available: NO_PUBKEY 9B
7D32F2D50582E6
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 disa
bled by default.
N: See apt-secure(8) manpage for repository creation and user configuration deta
ils.
```

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

```
40.123.31.177 - PuTTY

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.

After the execution of the above command I faced a issue because I did not use the command **sudo systemct1 start Jenkins** instead I directly used sudo systemctl status Jenkins so I was getting error inactive(dead).

Sudo systemct1 status Jenkins: this command is used to get the status of the Jenkins weather the Jenkins is active or inactive.

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 windown should display "welcome to Jenkins".