

### On UBUNTU machine Install JAVA

```
sudo add-apt-repository ppa:openjdk-r/ppa
```

```
sudo apt-get update
```

```
sudo apt-get install -y openjdk-8-jdk
```

### Tomcat Installation and Configuration

# Tomcat

Tomcat is an open-source web server and provides a "pure Java" HTTP web server environment in which Java code can run.



**Apache Tomcat**

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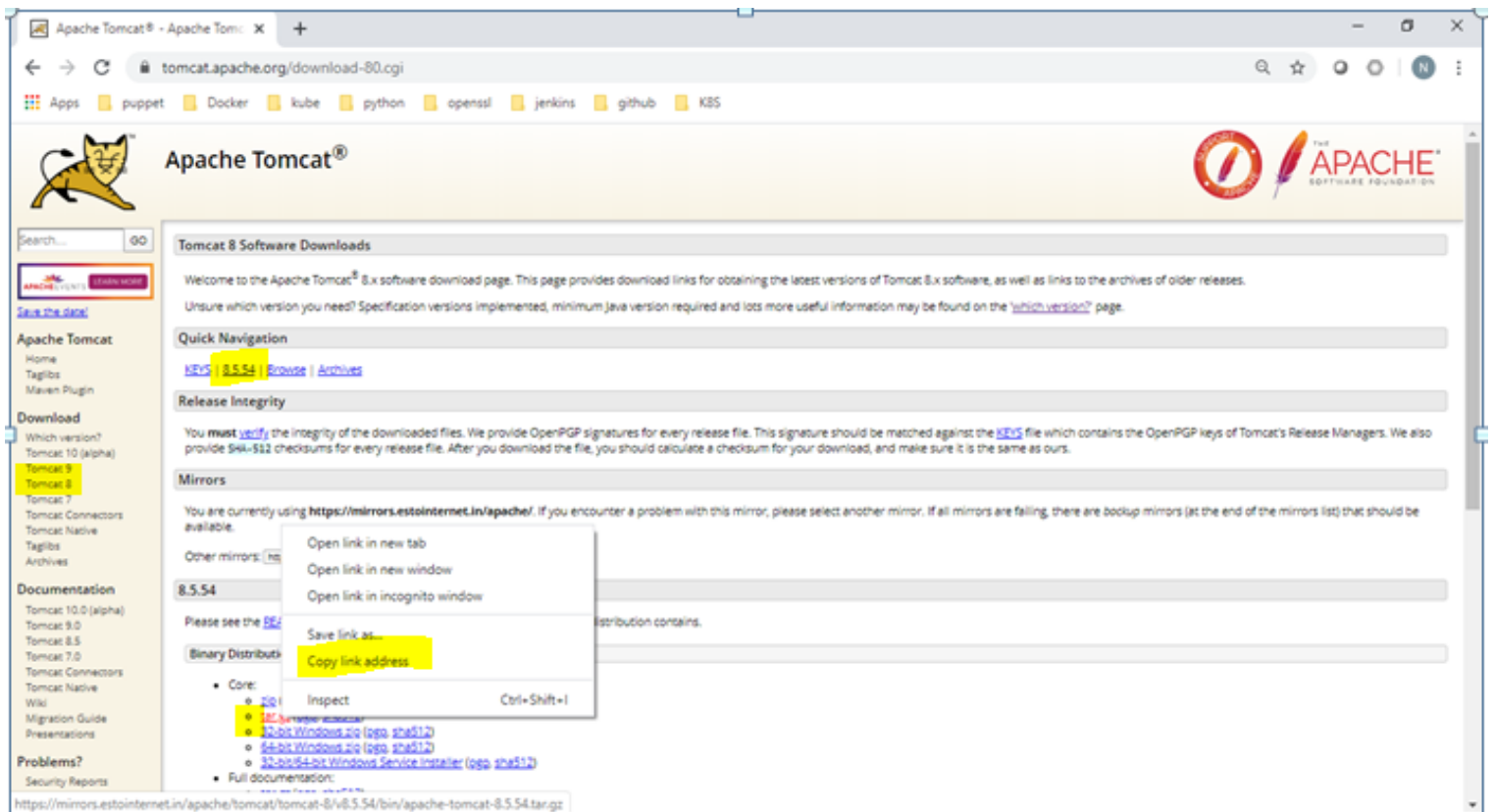
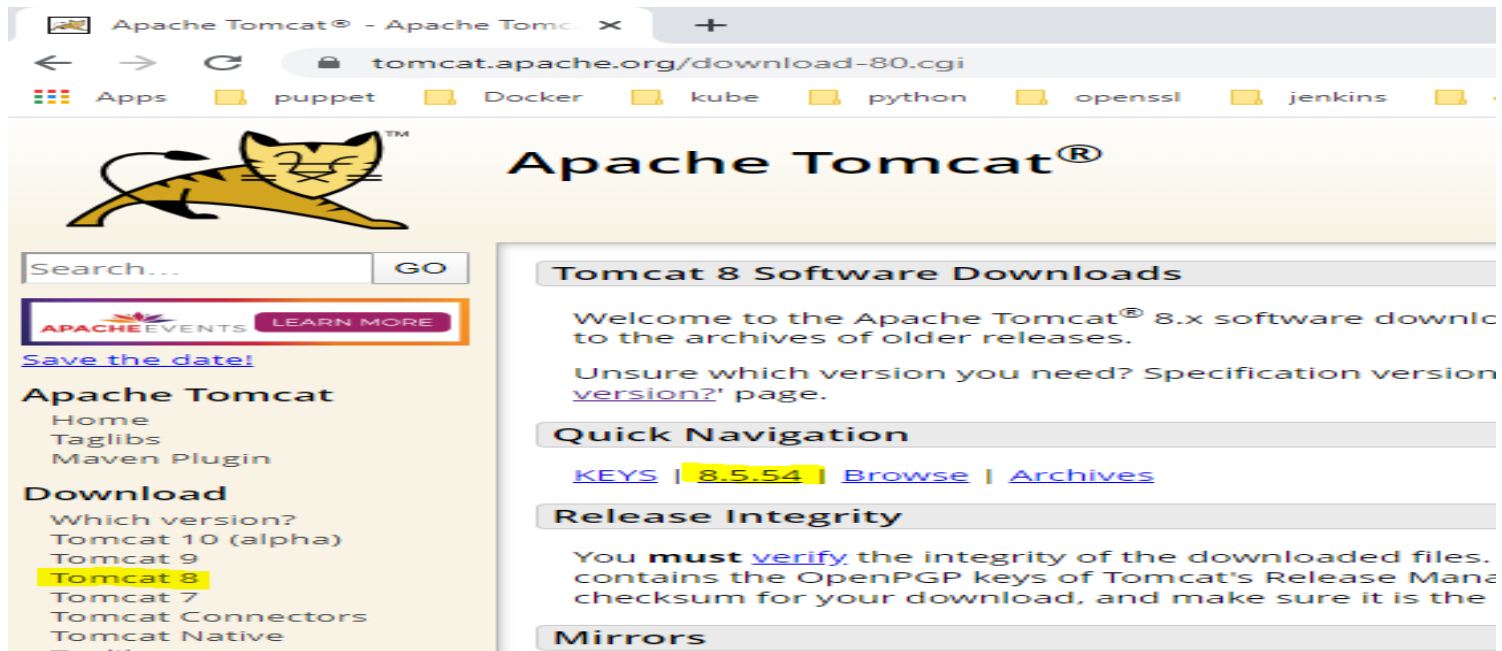
### Apache Tomcat® - Apache Tomcat 10 Software Downloads

This page provides **download** links for obtaining the latest version of **Tomcat 10.0.x** <sup>alpha</sup> software, as well as links to the archives of older releases. Unsure which ...

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### Apache Tomcat® - Apache Tomcat 9 Software Downloads

The current stable version is 8.5.54 download the tar.gz . Extract the tar.gz and copy any where. Tomcat is ready.



Copy link address as shown in above screenshot

Login to UBUNTU Machine & below commands

**NOTE: be root user to do all below tasks. You may see the permission issues if not.**

cd /tmp ; wget (paste the copied link here) , i.e it looks like below

cd /tmp ; wget <https://mirrors.estointernet.in/apache/tomcat/tomcat-8/v8.5.54/bin/apache-tomcat-8.5.54.tar.gz>

This will download the tomcat binary to UBUNTU machine under /tmp directory, and then we can extract the tar file

cd /tmp ; tar xzf apache-tomcat-8.5.54.tar.gz -C /opt/

The above command will extract the tomcat binary to /opt/ directory

Now you can go to /opt/apache-tomcat-8.5.54/bin & run startup.sh to start tomcat server

cd /opt/apache-tomcat-8.5.54/bin

./startup.sh

**Note: ensure that 8080 port is not occupied on your machine since tomcat by default uses 8080 port number.**

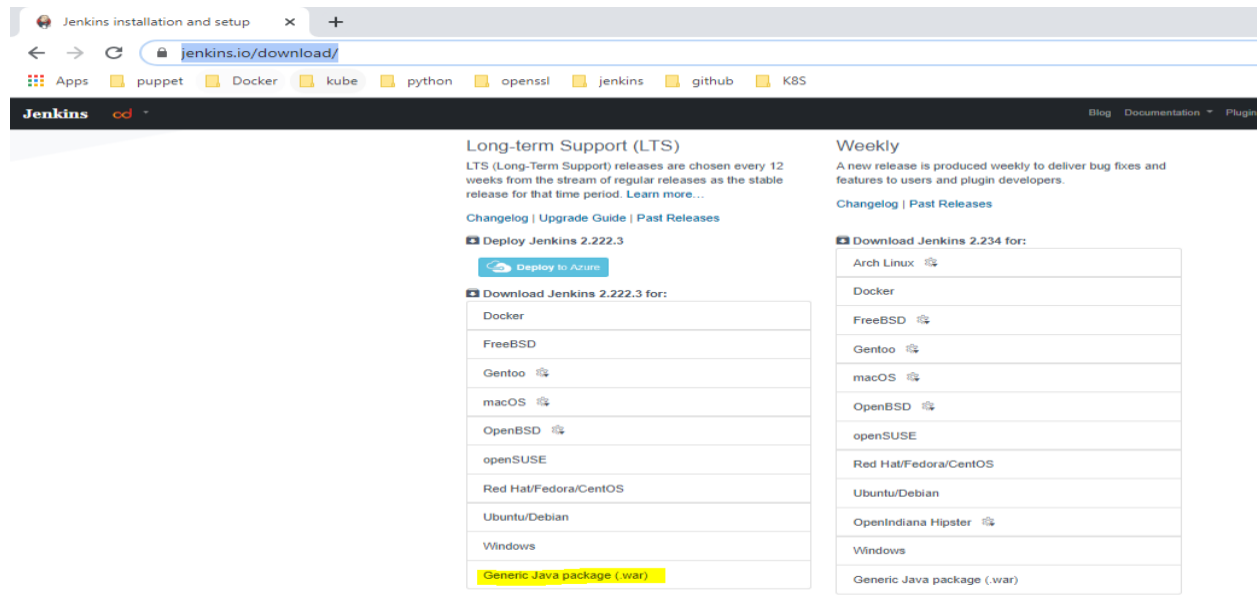
We can access the tomcat once it is started using <http://IP:8080>

# Setting UP Jenkins in TOMCAT Server:

We need to download the jenkins.war file from official Jenkins website

Goto link <https://www.jenkins.io/download/>

Download the war file under LTS section



On downloads page right click on Generic Java package(war) & copy link address

Login to UBUNTU machine follow as below in screen shot.

```
root@ip-172-31-15-219:/opt# cd /tmp
root@ip-172-31-15-219:/tmp# wget http://mirrors.jenkins.io/war-stable/latest/jenkins.war
--2020-04-28 07:09:21-- http://mirrors.jenkins.io/war-stable/latest/jenkins.war
Resolving mirrors.jenkins.io (mirrors.jenkins.io)... 52.202.51.185
Connecting to mirrors.jenkins.io (mirrors.jenkins.io)|52.202.51.185|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: http://ftp-nyc.osuosl.org/pub/jenkins/war-stable/2.222.3/jenkins.war [following]
--2020-04-28 07:09:25-- http://ftp-nyc.osuosl.org/pub/jenkins/war-stable/2.222.3/jenkins.war
Resolving ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)... 64.50.233.100, 2600:3404:200:237::2
Connecting to ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)|64.50.233.100|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 66241734 (63M) [application/x-java-archive]
Saving to: 'jenkins.war'

jenkins.war          100%[=====>]  63.17M  14.2MB/s   in 6.2s

2020-04-28 07:09:31 (10.2 MB/s) - 'jenkins.war' saved [66241734/66241734]

root@ip-172-31-15-219:/tmp# ls -l jenkins.war
-rw-r--r-- 1 root root 66241734 Apr 24 22:44 jenkins.war
root@ip-172-31-15-219:/tmp#
```

Ensure Jenkins war file successfully downloaded on to your machine.

## Deploy Jenkins war file to tomcat Server:

```
root@ip-172-31-15-219:~# cd /tmp
root@ip-172-31-15-219:/tmp# ls -l jenkins.war
-rw-r--r-- 1 root root 66241734 Apr 24 22:44 jenkins.war
root@ip-172-31-15-219:/tmp# cp jenkins.war /opt/apache-tomcat-8.5.54/webapps/
root@ip-172-31-15-219:/tmp# ls -l /opt/apache-tomcat-8.5.54/webapps/
total 64716
drwxr-x--- 3 root root      4096 Apr 28 06:56 ROOT
drwxr-x--- 16 root root      4096 Apr 28 06:56 docs
drwxr-x--- 6 root root      4096 Apr 28 06:56 examples
drwxr-x--- 5 root root      4096 Apr 28 06:56 host-manager
drwxr-x--- 11 root root      4096 Apr 28 07:29 jenkins
-rw-r--r-- 1 root root 66241734 Apr 28 07:29 jenkins.war
drwxr-x--- 5 root root      4096 Apr 28 06:56 manager
root@ip-172-31-15-219:/tmp#
```

## Restart Jenkins

```
root@ip-172-31-15-219:/tmp#
root@ip-172-31-15-219:/tmp# cd /opt/apache-tomcat-8.5.54/bin/
root@ip-172-31-15-219:/opt/apache-tomcat-8.5.54/bin# ./shutdown.sh ; ./startup.sh
Using CATALINA_BASE:   /opt/apache-tomcat-8.5.54
Using CATALINA_HOME:   /opt/apache-tomcat-8.5.54
Using CATALINA_TMPDIR: /opt/apache-tomcat-8.5.54/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /opt/apache-tomcat-8.5.54/bin/bootstrap.jar:/opt/apache-tomcat-8.5.54/bin/tomcat-juli.jar
Using CATALINA_BASE:   /opt/apache-tomcat-8.5.54
Using CATALINA_HOME:   /opt/apache-tomcat-8.5.54
Using CATALINA_TMPDIR: /opt/apache-tomcat-8.5.54/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /opt/apache-tomcat-8.5.54/bin/bootstrap.jar:/opt/apache-tomcat-8.5.54/bin/tomcat-juli.jar
Tomcat started.
root@ip-172-31-15-219:/opt/apache-tomcat-8.5.54/bin#
```

This concludes deploying Jenkins to tomcat Server; we can access Jenkins from below URL

<http://IP:8080/jenkins>

