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How to Install Apache Tomcat 8 on Linux?

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Apache Tomcat (short for “Tomcat”) is a free and open-source Java Servlet, JavaServer Pages, Java Expression Language, and WebSocket implementation. [two] Tomcat is an HTTP web server that runs Java code in a “pure Java” environment.

Tomcat is developed and maintained by a free group of developers under the Apache Software Foundation’s auspices and is licensed under the Apache License 2.0. In this article, we are going to see how to install Apache Tomcat 8 on Linux systems.

Installing Apache Tomcat 8:

Create a directory named tomcat in the /opt folder:

```
$ mkdir /opt/tomcat
```

```
ubuntu@ubuntu2010:~$ sudo mkdir /opt/tomcat
ubuntu@ubuntu2010:~$
```

Create a directory

Change directory to tomcat:



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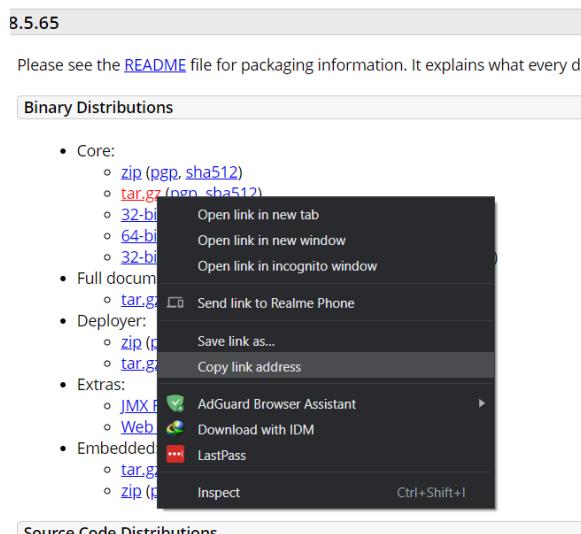
Got It !

```
$ cd /opt/tomcat
```

```
ubuntu@ubuntu2010:~$ cd /opt/tomcat
ubuntu@ubuntu2010:/opt/tomcat$
```

Change directory to tomcat

Go to the Apache Tomcat 8 Download page by clicking [this link](#). Place your cursor under 8.5.65 Binary Distributions, right-click on the tar file and select the copy link address from the menu that appears (as shown in the picture below). At the time of writing, Tomcat 8 is the most recent edition, but you are free to use whatever version is most current.



Next, use the wget command to download the tar from the URL you copied in the previous stage to the tomcat folder on your server:

```
$ sudo wget https://apachemirror.wuchna.com/tomcat/tomcat-8/v8.5.65/bin/apache-tomcat-8.5.65.tar.gz
```

```
ubuntu@ubuntu2010:~$ sudo wget https://apachemirror.wuchna.com/tomcat/tomcat-8/v8.5.65/bin/apache-tomcat-8.5.65.tar.gz
[sudo] password for ubuntu: 
--2021-05-06 05:10:24-- https://apachemirror.wuchna.com/tomcat/tomcat-8/v8.5.65/bin/apache-tomcat-8.5.65.tar.gz
Resolving apachemirror.wuchna.com (apachemirror.wuchna.com)... 143.110.177.196
Connecting to apachemirror.wuchna.com (apachemirror.wuchna.com)|143.110.177.196|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 10523269 (10M) [application/x-gzip]
Saving to: 'apache-tomcat-8.5.65.tar.gz'

[Progress Bar] apache-tomcat-8.5.65.t 100%[=====]> 10.04M 4.65MB/s in 2.2s
```



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Got It !

Decompress the file in your tomcat folder after it has finished downloading:

```
$ tar xvzf apache-tomcat-8.5.65.tar.gz
```

```
ubuntu@ubuntu2010:/opt/tomcat$ sudo tar xvzf apache-tomcat-8.5.65.tar.gz
apache-tomcat-8.5.65/conf/
apache-tomcat-8.5.65/conf/catalina.policy
apache-tomcat-8.5.65/conf/catalina.properties
apache-tomcat-8.5.65/conf/context.xml
apache-tomcat-8.5.65/conf/jaspic-providers.xml
apache-tomcat-8.5.65/conf/jaspic-providers.xsd
apache-tomcat-8.5.65/conf/logging.properties
apache-tomcat-8.5.65/conf/server.xml
apache-tomcat-8.5.65/conf/tomcat-users.xml
apache-tomcat-8.5.65/conf/tomcat-users.xsd
apache-tomcat-8.5.65/conf/web.xml
apache-tomcat-8.5.65/bin/
apache-tomcat-8.5.65/lib/
apache-tomcat-8.5.65/logs/
apache-tomcat-8.5.65/temp/
apache-tomcat-8.5.65/webapps/
apache-tomcat-8.5.65/webapps/ROOT/
apache-tomcat-8.5.65/webapps/ROOT/WEB-INF/
apache-tomcat-8.5.65/webapps/docs/
apache-tomcat-8.5.65/webapps/docs/WEB-INF/
apache-tomcat-8.5.65/webapps/docs/annotationapi/
apache-tomcat-8.5.65/webapps/docs/api/
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apache-tomcat-8.5.65/webapps/docs/appdev/sample/docs/
apache-tomcat-8.5.65/webapps/docs/appdev/sample/src/
apache-tomcat-8.5.65/webapps/docs/appdev/sample/src/mypackage/
apache-tomcat-8.5.65/webapps/docs/appdev/sample/web/
apache-tomcat-8.5.65/webapps/docs/appdev/sample/web/WEB-INF/
```

Decompress the file

Installing Java:

You must first install the Java Development Kit before you can use Tomcat (JDK). Check to see if Java is installed first:

```
$ apt-get install default-jdk
```

```
ubuntu@ubuntu2010:~$ sudo apt-get install default-jdk
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  ca-certificates-java default-jdk-headless default-jre default-jre-headless
  fonts-dejavu-extra java-common libatk-wrapper-java libatk-wrapper-java-jni libice-dev
  libpthread-stubs0-dev libsm-dev libx11-dev libxau-dev libxcb1-dev libxdmcp-dev
  libxt-dev openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre openjdk-11-jre-headless
  x11proto-core-dev x11proto-dev xorg-sqlm-doctools xtrans-dev
```

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Got It !

```
THE FOLLOWING NEW PACKAGES WILL BE INSTALLED:
ca-certificates-java default-jdk default-jdk-headless default-jre default-jre-headless
fonts-dejavu-extra java-common libatk-wrapper-java libatk-wrapper-jni libice-dev
libpthread-stubs0-dev libsm-dev libx11-dev libxau-dev libxcb1-dev libxdmcp-dev
libxt-dev openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre openjdk-11-jre-headless
x11proto-core-dev x11proto-dev xorg-sgml-doctools xtrans-dev
0 upgraded, 25 newly installed, 0 to remove and 0 not upgraded.
Need to get 260 MB of archives.
After this operation, 415 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu groovy/main amd64 java-common all 0.72 [6,816 B]
Get:2 http://us.archive.ubuntu.com/ubuntu groovy-updates/main amd64 openjdk-11-jre-headless
  amd64 11.0.11+9-0ubuntu2~20.10 [37.2 MB]
Get:3 http://us.archive.ubuntu.com/ubuntu groovy/main amd64 default-jre-headless amd64 2:1.
11-72 [3,192 B]
Get:4 http://us.archive.ubuntu.com/ubuntu groovy/main amd64 ca-certificates-java all 201904
```

Installing the Java Development Kit

Now verify java installed properly:

```
$ java -version
```

```
ubuntu@ubuntu2010:~$ java -version
openjdk version "11.0.11" 2021-04-20
OpenJDK Runtime Environment (build 11.0.11+9-Ubuntu-0ubuntu2.20.10)
OpenJDK 64-Bit Server VM (build 11.0.11+9-Ubuntu-0ubuntu2.20.10, mixed mode, sharing)
ubuntu@ubuntu2010:~$
```

Verify java installed properly

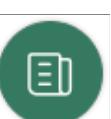
Configure .bashrc File:

Use the following command to set the environment variables in .bashrc:

```
$ nano ~/.bashrc
```

```
ubuntu@ubuntu2010:~$ sudo nano ~/.bashrc
ubuntu@ubuntu2010:~$
```

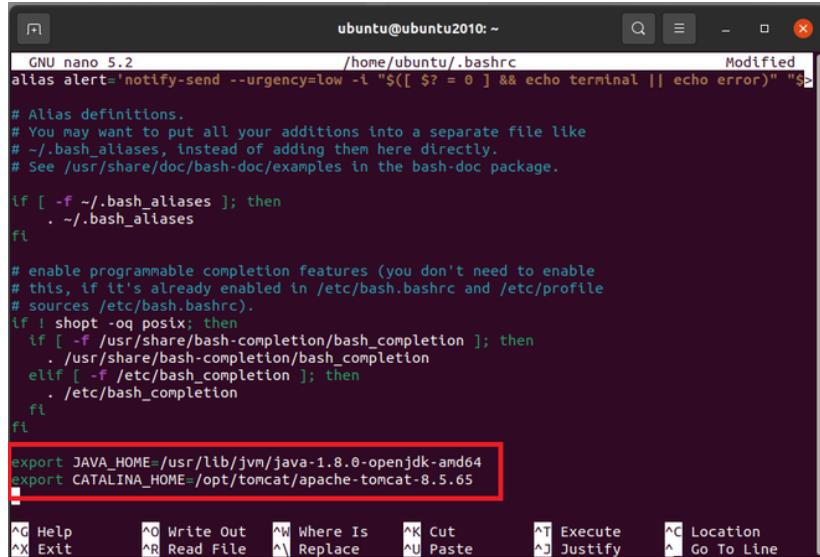
Add the following lines to the file's end:



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Got It !

```
export CATALINA_HOME=/opt/tomcat/apache-tomcat-8.5.65
```



```
ubuntu@ubuntu2010: ~
GNU nano 5.2
/home/ubuntu/.bashrc
Modified
alias alert='notify-send --urgency=low -i "$(($? == 0) && echo terminal || echo error)" "$_"
# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

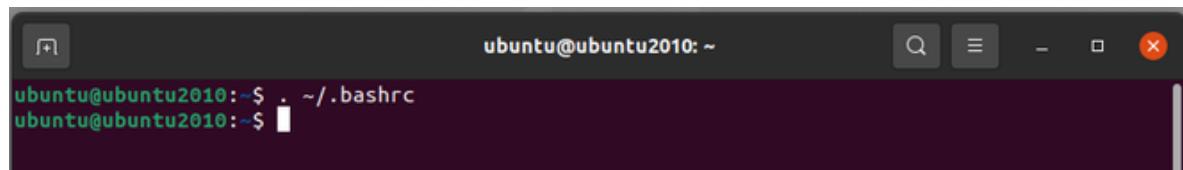
if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi

export JAVA_HOME=/usr/lib/jvm/java-1.8.0-openjdk-amd64
export CATALINA_HOME=/opt/tomcat/apache-tomcat-8.5.65
```

After you've saved your changes and exited the .bashrc file, run the following command to make the changes take effect:

```
$ . ~/.bashrc
```

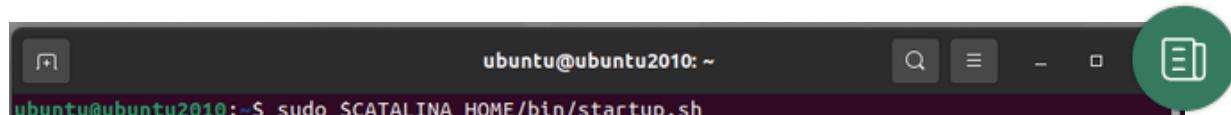


```
ubuntu@ubuntu2010: ~
ubuntu@ubuntu2010: ~$ . ~/.bashrc
ubuntu@ubuntu2010: ~$
```

Your server should now have Tomcat and Java enabled and configured.

Run the following script to start Tomcat:

```
$ $CATALINA_HOME/bin/startup.sh
```



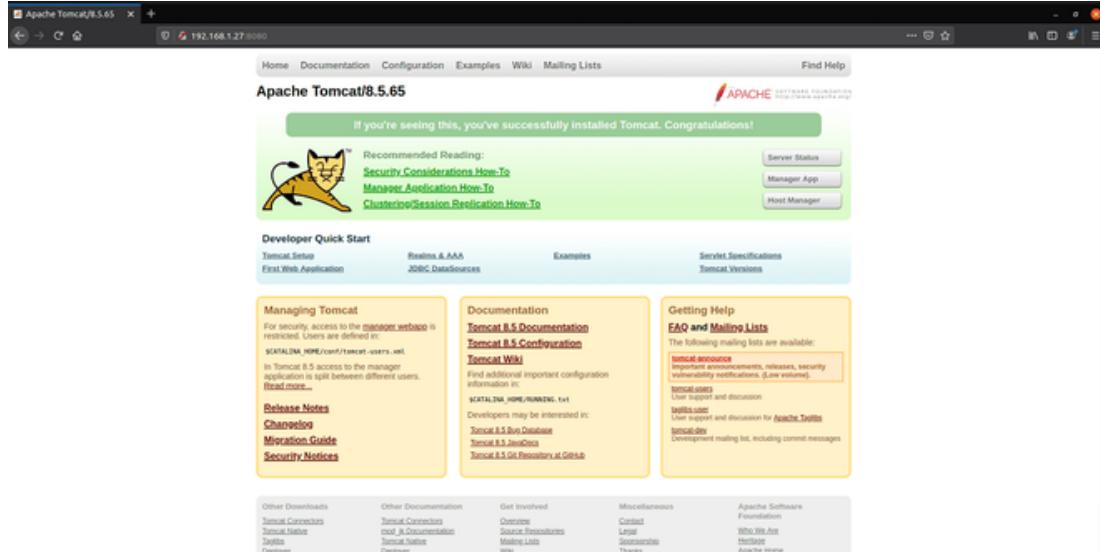
```
ubuntu@ubuntu2010: ~
ubuntu@ubuntu2010: ~$ sudo $CATALINA_HOME/bin/startup.sh
```

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Got It !

```
Setting CLASSPATH: /opt/tomcat/apache-tomcat-8.5.65/bin/bootstrap.jar:/opt/tomcat/apache-tomcat-8.5.65/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
ubuntu@ubuntu2010:~$
```

In a web browser, go to YourIPAddress:8080 to see if Tomcat is up and running. <http://127.0.0.1:8080>, for example.



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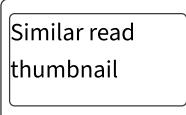
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