

EX.NO : 4

DATE:

INSTALLATION OF APACHE TOMCAT WEB SERVER

AIM:

To Install & Configure TOMCAT web server.

PROCEDURE:

1. Visit [Apache Tomcat home page](#) with a Web browser, and click the "Download" link under the "Tomcat 7.0.70 Released" section. You will see the "Tomcat 7 Downloads" page.
2. Click "32-bit Windows zip" link under "Binary Distributions" section. You will see the download file save dialog box.(this supports jdk1.6 kit)
3. Use the "Save file" option to save the download file "apache-tomcat-7.0.70-windows-x86.zip" to a temporary folder.
4. Unzip "apache-tomcat-7.0.70-windows-x86.zip" to file installation folder "C:\ apache-tomcat-7.0.70"
5. Try to start Tomcat server by running the "startup" command in a command line
window: C:\>cd apache-tomcat-7.0.70\bin
C:\>cd apache-tomcat-7.0.70\bin>startup
The CATALINA_HOME environment variable is not defined correctly
This environment variable is needed to run this program
6. To fix the missing environment variables, CATALINA_HOME, JAVA_HOME & JRE_HOME,
 - Click my computer->right click properties->Select Advance System Setting
 - In this tab, Click Environment variable
 - Click new in User variables for admin
 - Enter variable name & Variable value
 - CATALINA_HOME C:\apache-tomcat-7.0.70
 - JAVA_HOME C:\Program Files\Java\
 - JRE_HOME C:\Program Files\Java\jre7
7. Configuring Tomcat
Open "C:\apache-tomcat-7.0.70\conf" folder
It consists of the following xml files
Server.xml
Web.xml
Tomcat-user.xml
Context.xml
Open web.xml in notepad & modify default-listings=false to true
Open server.xml & change port number 8080 to any other(8081) if any application access the same port
Open context.xml change reloadable attribute to true

Configuration procedure varies according to the version

8. Try to start Tomcat server by running the "startup" command in a command line window:

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\adnib>cd \

C:\>cd apache-tomcat-7.0.70

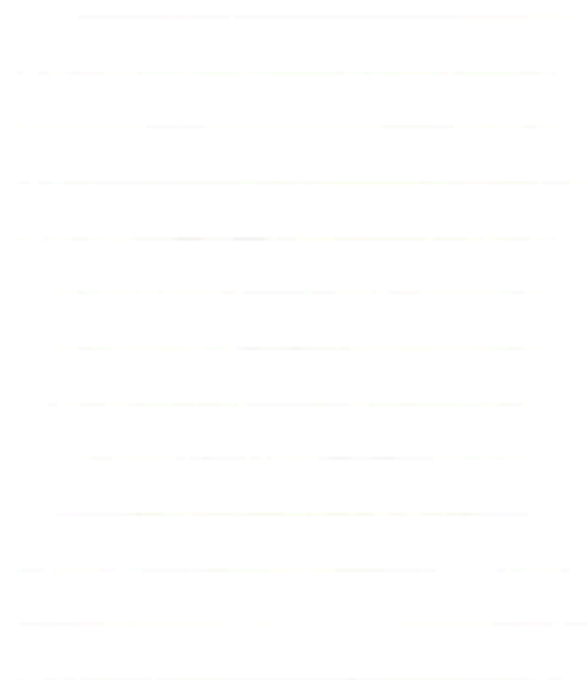
C:\apache-tomcat-7.0.70>cd bin

C:\apache-tomcat-7.0.70\bin>startup
Using CATALINA_BASE:   "C:\apache-tomcat-7.0.70"
Using CATALINA_HOME:   "C:\apache-tomcat-7.0.70"
Using CATALINA_TMPDIR: "C:\apache-tomcat-7.0.70\tmp"
Using JRE_HOME:        "C:\Program Files\Java\jre7"
Using CLASSPATH:       "C:\apache-tomcat-7.0.70\bin\bootstrap.jar;C:\apache-tomcat-7.0.70\bin\tomcat-juli.jar"
C:\apache-tomcat-7.0.70\bin>
```

```
Tomcat
Samples has finished in 234 ms
Aug 22, 2016 2:07:43 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory C:\apache-tomcat-7.0.70\webapps\host-m
anager
Aug 22, 2016 2:07:44 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory C:\apache-tomcat-7.0.70\webapps\ho
st-manager has finished in 47 ms
Aug 22, 2016 2:07:44 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory C:\apache-tomcat-7.0.70\webapps\manage
r
Aug 22, 2016 2:07:44 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory C:\apache-tomcat-7.0.70\webapps\ma
nager has finished in 94 ms
Aug 22, 2016 2:07:44 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory C:\apache-tomcat-7.0.70\webapps\ROOT
Aug 22, 2016 2:07:44 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory C:\apache-tomcat-7.0.70\webapps\RO
OT has finished in 31 ms
Aug 22, 2016 2:07:44 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-apr-8080"]
Aug 22, 2016 2:07:44 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-apr-8009"]
Aug 22, 2016 2:07:44 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in 755 ms
```



Thus, tomcat server was started.



RESULT :

Thus the above Apache Tomcat web server has been installed successfully.