Configuring and Starting Apache Tomcat Server

Downloading Tomcat Server

- 1. Download the apache-tomcat 9.0.36 zip for required windows 32-bits or 64-bits zip file.(https://tomcat.apache.org/download-90.cgi)
- 2. Unzip the file in c:// for ease of use.

Check for the following in tomcat folder:

- 1. bin
- 2. logs
- 3. webapps
- 4. work
- 5. temp
- 6. conf
- 7. lib
- 3. Install the java jdk and jre packages according to the system configuration.
- 4. Create environment variable JAVA_HOME and provide variable path the java jdk (path).
- 5. Create environment variable JRE_HOME and provide variable path the java jre (path).
- 6. Check if the environment variable is set in command prompt:

set JAVA_HOME will return the variable path set JRE_HOME will return the variable path if set.

```
C:\Users\MP3cd..
C:\Users\MP3cd...
C:\Users\MP3cd...
C:\Users\MP3cd...
C:\Users\MP3cd...
C:
```

Configuring Apache tomcat:

- 1. Open the conf folder in tomcat directory.
- 2. "conf\web.xml"; Enabling a Directory Listing

Open the configuration file "web.xml". We shall enable the directory listing by changing "listings" from "false" to "true" for the "default" servlet.

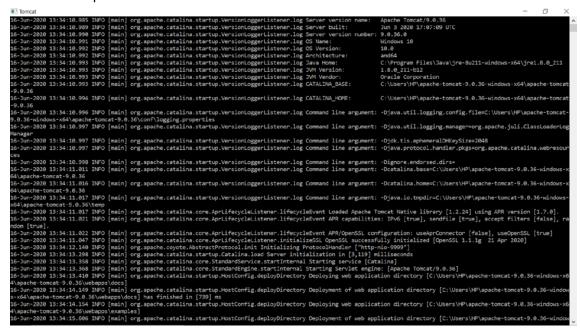
- <param-value>true</param-value> like:
- "conf\server.xml file"; set the TCP Port Number
 <Connector port="9999" protocol="HTTP/1.1" Like -> You can set the port between 1024 and 655555.
- 4. "conf\context.xml"; Enabling Automatic Reload In that we set reloadable="true" to the <Context> element to enable automatic reload after code changes.

Add reloadable="true" as in the following:

- <Context reloadable="true"> </Context> Like
- 5. (Optional) "conf\tomcat-users.xml"
 - It is used to manage Tomcat by adding the highlighted lines, inside the <tomcat-users> elements. In that we can add a password and username as an optional step.
- 6. Your Apache Tomcat Server is now configured.

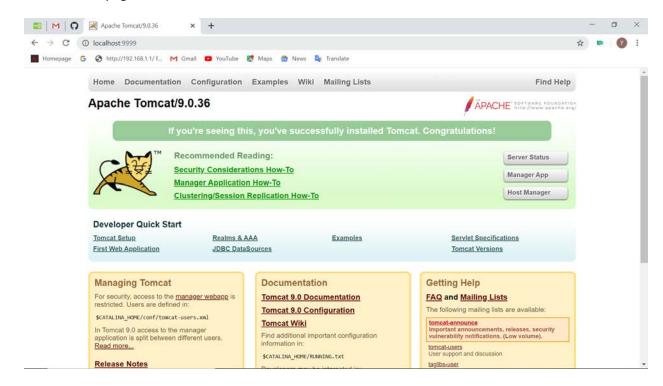
Start Server

- 1. Launch in command prompt by changing the directory(cd) to tomcat bin folder where all executable files exist.
 - cd C:\Users\HP\apache-tomcat-9.0.36-windows-x64\apache-tomcat-9.0.36\bin
- 2. Now add command (startup.bat) opens the tomcat server in another command window.
- 3. Check for the port in tomcat window is set to 9999.

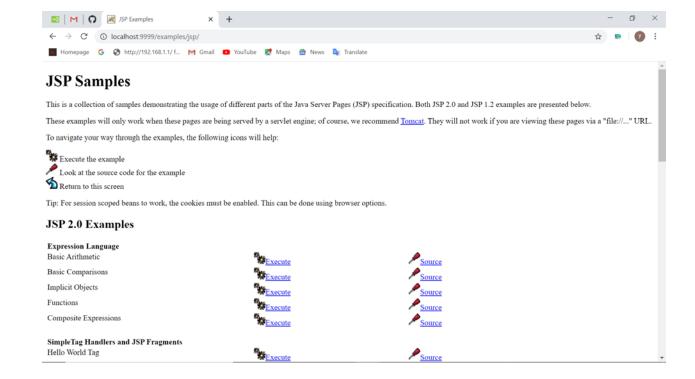


Access the Server:

1. Open a browser then enter the URL "http://localhost:9999" to access the Tomcat server's welcome page.



2. Now try the URL http://localhost:9999/examples to view JSP and servlet examples.



3. To shutdown the server use shutdown.bat in command prompt or simply apply ctrl+c in tomcat window.

