Tomcat Server

Understanding the Tomcat Server

Type ------ Java based web server

Version ----- 9.x(compatible with jdk 1.8+)

Vendor ----- Apache foundation (open source software)

Default port no ----- 8080

To download software : www.apache.org

Servlet Container name : catalina JSP Container name : jasper

While installing tomcat software choose

- a) <Java_Home>\Jre location
- b) Tomcat installation folder
- c) Default Port no (3030)
- d)Admin username,password(admin,admin)

To start tomcat server

a)user<tomcat_home>\bin\tomcat9.exe file

To see the home page of tomcat

http://localhost:3030/ (url in the browser address bar)

To change http port number of tomcat after installing tomcat

Go to **<Tomcat_Home>\conf\server.xml** file and modify port attribute value Of **first <connector> tag →** restart server

=>We can deploy java web application either in the form of directories(dir1,dir2) or in the form war files in <Tomcat Home>\webapps folder

```
Tomcat Installation directory structure
```

```
_____
```

```
D:\Tomcat9.0(<Tomcat_Home>)
```

Procedure to create JDBC connection pool for Oracle and DataSource in Tomcat9

Step1:make sure that tomcat.jdbc.jar,ojdbc6.jar file are placed in <tomcat_home>\lib folder.

In Tomcat9 server, the tomcat-jdbc.jar file comes along with tomcat software installation.if not coming get it by extracting **apache-tomcat-jdbc-1.1.0.1-bin.zip** file(download from internet)

Step2:write the following<Resource>tag in<context> of

<Tomcat_Home>\conf\context.xml

<Context>

```
<Resource name="DsJndi" type="javax.sql.DataSource"
factory="org.apache.tomcat.jdbc.pool.DataSourceFactory"
driverClassName="oracle.jdbc.driver.OracleDriver"
maxActive="100" maxIdle="30" maxWait="10000"
username="system" password="oracle"
url="jdbc:oracle:thin:@localhost:1521:orcl"/>
```

</Context>

Step3: restart the server

To use the above poolApp web application we must write following code to get DataSource Object in make connection method of connection pool servlet.

DataSource ds=(DataSurce)ic.lookUp("java:/comp/env/mypool");

Note:

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If we don't want to use above connection pool from the tomcat server that is linked with eclipse IDE then write <Resource>tag in server section of context.xml In eclipse IDE.

Important points:

- By Default Tomcat server does not support CrossContext Communication Because getContext(-) method is not implemented properly in Tomcatserver. To enable cross context communication we can place
 - <Context crossContext="true"/> in <Tomcat Home>\config\context.xml file
- Since GlassFish, Jboss servers internally use Tomcat server this crossContext communication is also not possible in this two servers.
- ServletContext of one web application which is accessed from the ServletContext object of another web application is called **Foreign Context**.