**Deploying the Java Application in Apache-Tomcat Server**

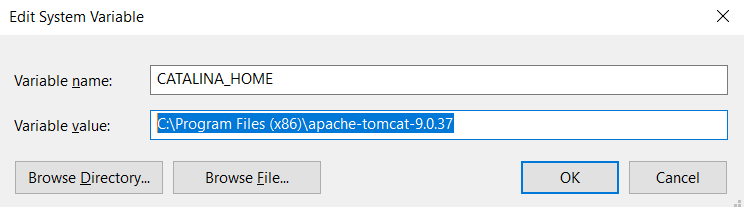
* Please down load the Apache-Tomcat server from

<https://tomcat.apache.org/download-90.cgi> ([64-bit Windows zip](https://downloads.apache.org/tomcat/tomcat-9/v9.0.37/bin/apache-tomcat-9.0.37-windows-x64.zip) ([pgp](https://downloads.apache.org/tomcat/tomcat-9/v9.0.37/bin/apache-tomcat-9.0.37-windows-x64.zip.asc), [sha512](https://downloads.apache.org/tomcat/tomcat-9/v9.0.37/bin/apache-tomcat-9.0.37-windows-x64.zip.sha512)))

* After downloading the file, extract it and place the folder in ProgramFiles(x86).
* We need to the set environment variable for Apache-Tomcat.
* Now to go to the system environment variables and set

Variable name: CATALINA\_HOME

Variable Value: C:\Program Files (x86)\apache-tomcat-8.5.57



* Now we need to change the port no to 8081 because Jenkins runs on the 8080 port number.
* To do this go to the **conf** folder and open the **server.xml** with notepad+ and edit the connector port number 8081.
* Now to open the command prompt and place the following path

C:\Program Files (x86)\apache-tomcat-8.5.57\bin

* Now type the **startup.bat** to start the Tomcat server
* Now go to the browser and type the <http://localhost:8081/>
* When Jenkins tries to get into Tomcat server and deploy applications it needs some Authentication so it will be allowed deploy by tomcat.
* For that we need to create the user for that one and provide the user credentials to Jenkins Instance.
* Go to the conf folder and edit the tomcat-users.xml file.
* Add the following code between <tomcat-user>tags
  + <role rolename="manager-script"/>
  + <user username="deployer" password="deployer" roles="manager-script"/>

Note: To work with Tomcat server we need to install the Deployment container.

For this go to Manage Jenkins and select the Manage plugins.

Select the Available Tab and search the Deploy to container plug in and install it.

Then only your able to work with Tomcat server.

Let’s start Deploying the Maven based Java web application into Tomcat server

Step:1

* Click on the New Item and Name the project as Sample project, select the project type as Freestyle project.

Step:2

General:

Description: Sample Project

Source Management:

Git: <https://github.com/sebsto/webapp.git>

Build Environment:

Check the Add timestamps to the Console Output

Build:

Execute Windows batch command: mvn package

**Post Build Actions:**

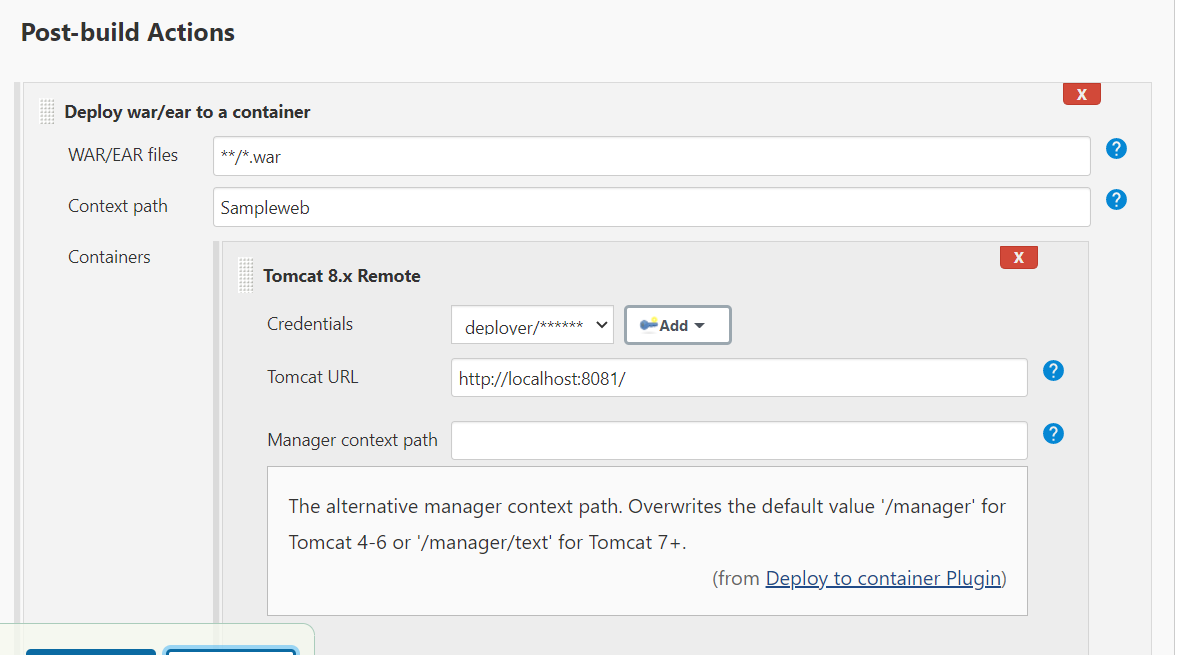
War/Ear File: \*\*/\*.war

Context Path: Sampleweb

Containers: Tomcat 8.x Remote(Version of your Tomcat server)

Credentials: Click on the Add select Jenkins and enter the Username as deployer and password as deployer(we set this tomcat-users.xml file) then click on the add.

Tomcat Url: [http://localhost:8081/ (We](http://localhost:8081/%20(We) set the port number in server.xml file)



Note: mvn package will generate the .war(artifacts) file in the following path

C:\Program Files (x86)\Jenkins\workspace\SampleWeb\target

* Now go to the Project Dash board and run the Build Now.
* After successful build go to the tomcat browser and browse your application

<http://localhost:8081/Sampleweb/>

Note: Make sure your Tomcat should be run in the background

* You can find the Your deployed applications the Tomcat server n the following path

C:\Program Files (x86)\apache-tomcat-8.5.57\work\Catalina\localhost

Some more GitHub url to practice

<https://github.com/daticahealth/java-tomcat-maven-example.git>

<https://github.com/Coveros/helloworld.git>