Lesson 8 Demo 1: Tomcat and Jenkins

This section will guide you to:

* Connect and deploy a Java application on Tomcat in Jenkins.

This guide has four subsections, namely:

1. Login to Jenkins
2. Configure Tomcat
3. Create Jenkins job for Tomcat
4. Push code to GitHub repositories

**Step 1:** Login to Jenkins

* Open your browser and navigate to **localhost:8081**
* Provide your username and password and click on **Login.**

**Step 2:** Configure Tomcat

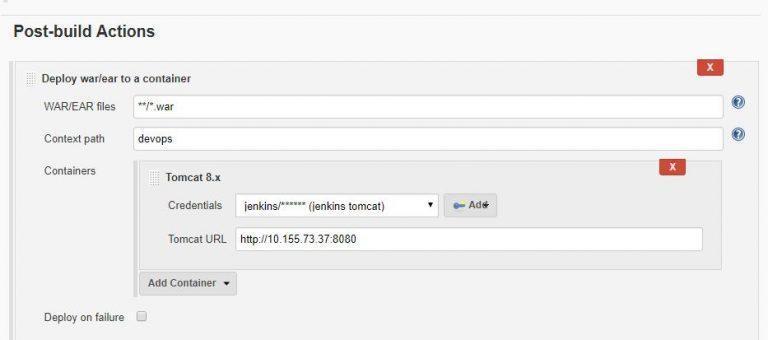
* Enter the below fields in **context.xml** located in **tomathomedir/webapps/manager/META-INF/**

**<role rolename=”tomcat”/>  
<role rolename=”manager-gui”/>  
<role rolename=”manager-script”/>  
<user username=”tomcat” password=”password” roles=”tomcat”/>  
<user username=”manager” password=”password” roles=”tomcat,manager-gui”/>  
<user username=”jenkins” password=”jenkins” roles=”tomcat,manager-gui,manager-script”/>**

* Start Tomcat and access **Manager App.**
* Provide username and password.

**Step 3:** Create Jenkins job for Tomcat

* Navigate to Jenkins dashboard and click on **Manage Jenkins** and then click on **Manage Plugins.**
* Search and install **Deploy to Container** plugin.
* Navigate to Jenkins dashboard and create a new job.
* Provide the name to the job and select **freestyle project**.
* Under **Source Code Management**, provide the GitHub repository URL of your project.
* Under **Build** section, define **Goals** as **clean package deploy**
* Under **Post-build Actions,** select **Deploy war/ear to container** as shown in figure below and provide Tomcat credentials:



* Click on **Save** and then build the job.

**Step 4:** Push the code to your GitHub repositories.

* Open your command prompt and navigate to the folder where you have created your files.

**cd <folder path>**

* Initialize your repository using the following command:

**git init**

* Add all the files to your Git repository using the following command:

**git add .**

* Commit the changes using the following command:

**git commit . -m “Changes have been committed.”**

* Push the files to the folder you initially created using the following command:

**git push -u origin master**