

Configuring a Servlet with Eclipse

Step 1: Creating a dynamic web project

- Open Eclipse
- Go to the File menu. Choose New->Dynamic Web Project
- Enter the project name as FirstServlet. Click on Next
- Enter nothing in the next screen and click on Next
- Check the checkbox Generate web.xml deployment descriptor and click on Finish
- This will create the project files in the Project Explorer

Step 2: Creating a servlet

- In the Project Explorer, expand ServletConcept->Java Resources
- Right click on src and choose New->Servlet
- In Class Name, enter FirstServlet and click on Finish

Step 3: Checking for servlet-api.jar

- Before building the project, we need to add servlet-api.jar to the project
- Servlet-api.jar file is already present in your practice lab. (Refer FSD: Lab Guide - Phase 2)
- To add it to the project, follow the below mentioned steps:
 - In the Project Explorer, right click on FirstServlet and choose Properties
 - Select Java Build Path from the options on the left
 - Click on Libraries tab on the right
 - Under ClassPath, expand the node that says Apache Tomcat
 - If there is an existing entry for servlet-api.jar, then click on Cancel and

exit the window

- If it is not there, then click on Classpath entry and click on Add External JARs button on the right
- From the file list, select servlet-api.jar file and click Ok
- Click on Apply and Close

Step 4: Building the project

- From the Project menu at the top, click on Build
- If any compile errors are shown, fix them as required

Step 5: Publishing and starting the project

- If you do not see the Servers tab near the bottom of the IDE, go to Window menu and click on Show View->Servers
- Right click on the Server entry and choose Add and Remove
- Click the Add button to move FirstServlet from the Available list to the Configured list
- Click on Finish
- Right click on the Server entry and click on Publish
- Right click on the Server entry and click on Start
- This will start the server

Step 6: Running the project

- To run the project, open a web browser and type:
<http://localhost:8080/ServletConcept>

Step 7: Pushing 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
```