

03 - Running Tomcat in Eclipse

⌚ Steps to Apache Tomcat Server in Eclipse:

1. Download Apache Tomcat:

- Download the appropriate version of **Apache Tomcat** from (<https://tomcat.apache.org>).

The screenshot shows the Apache Tomcat website. At the top, there's a search bar and a 'GO' button. To the right is the Apache Software Foundation logo. The main content area is titled 'Apache Tomcat'. It features a banner for the 'COMMUNITY CODE' event in Denver, Colorado, dated October 7-10, 2024. Below the banner, there's a brief introduction about the Jakarta EE platform and the evolution of Tomcat. A section for 'Tomcat 11.0.0 Released' is highlighted, showing the release date as 2024-10-09. The page includes links for 'Download', 'Documentation', and 'Archives'. The 'Download' section lists various Tomcat versions and connectors.

- Extract the downloaded file to a directory on your system.

2. Open Eclipse IDE:

- Launch **Eclipse IDE** or **Spring Tool Suite (STS)**.

3. Add Tomcat Server in Eclipse:

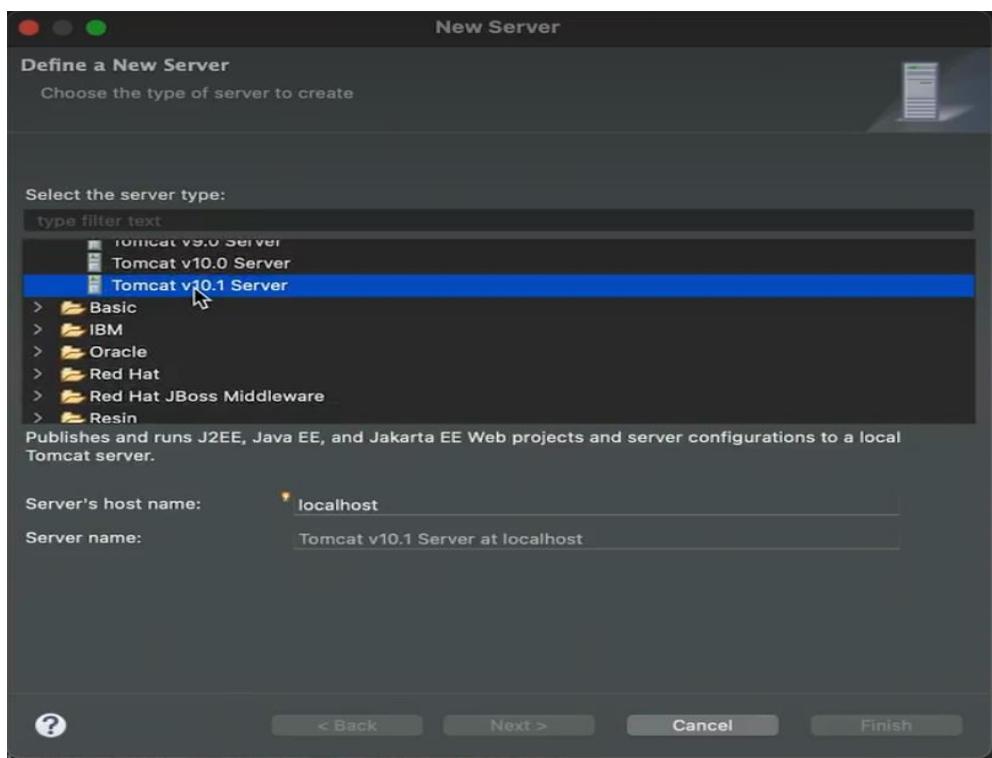
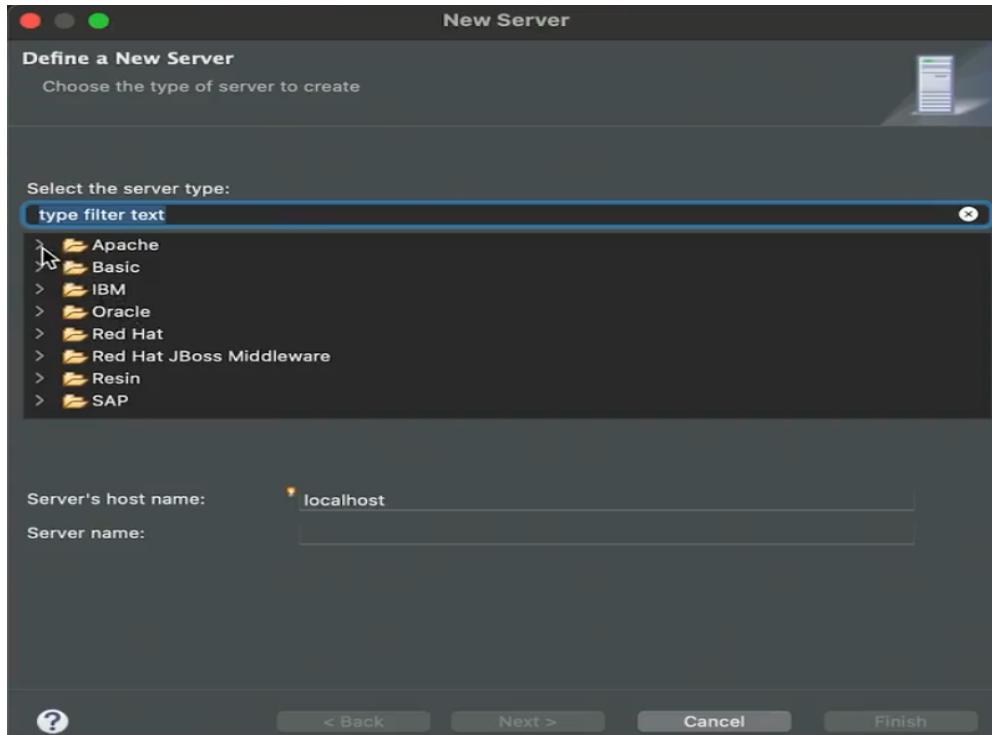
- Go to the Servers tab at the bottom of Eclipse.



- If the Servers tab is not visible, go to Window > Show View > Servers.
- Right-click in the Servers view and select New > Server.

4. Select Apache Tomcat Version:

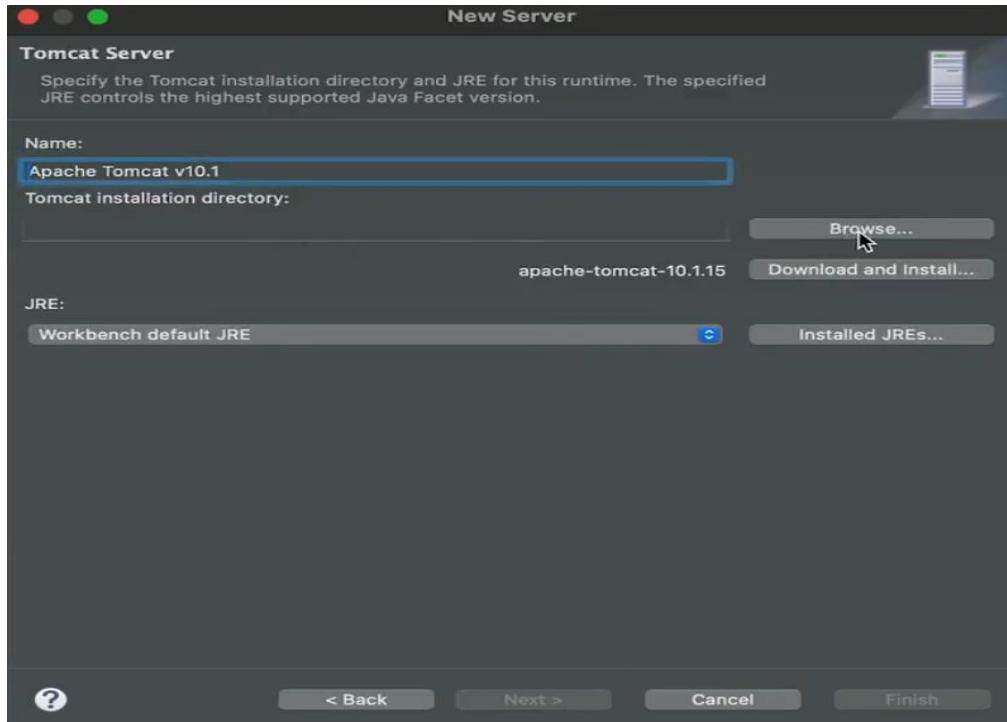
- In the **Define a New Server** dialog, expand the Apache option and select the version of Tomcat that you have downloaded.



- Click Next.

5. Configure Tomcat Installation:

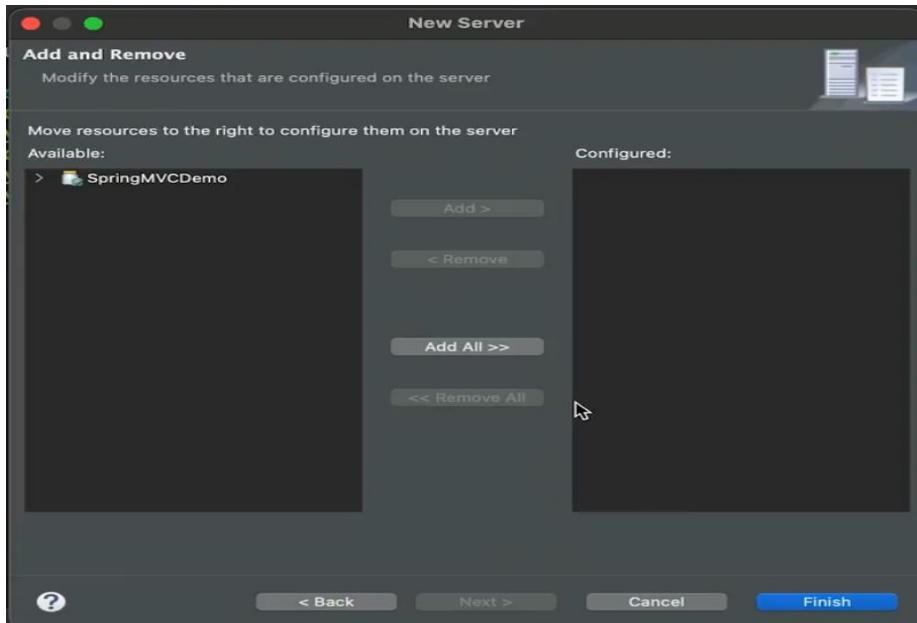
- Click the Browse button and navigate to the folder where you extracted Tomcat.



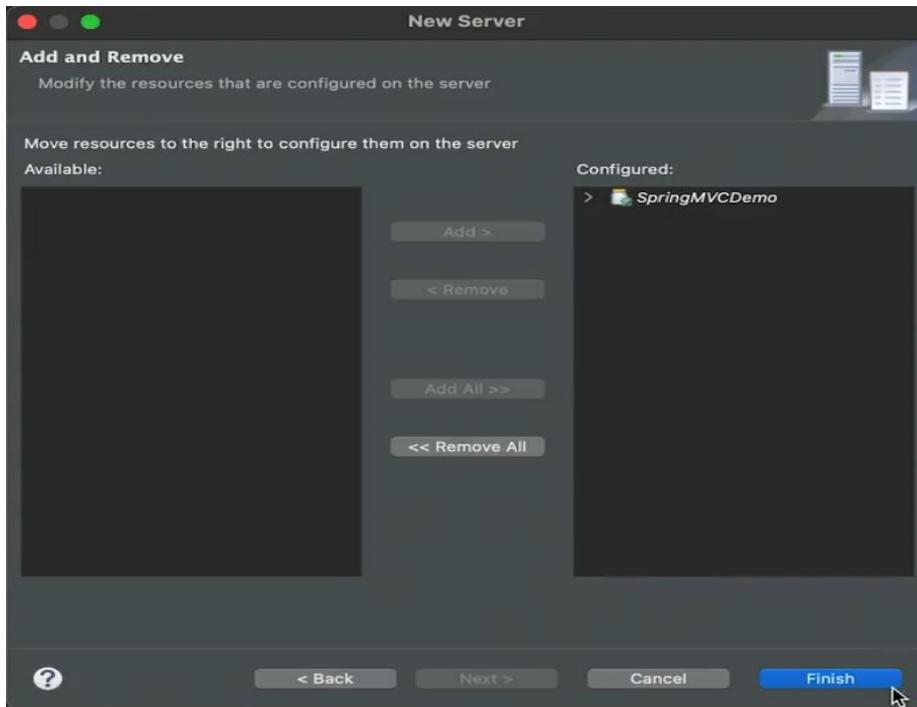
- Select the Tomcat home directory, then click Finish.

6. Add Project to Tomcat:

- Once Tomcat is added to Eclipse, right-click on the Tomcat server under the Servers tab and select Add and Remove.



- In the dialog, select your **Spring MVC project** from the Available projects and click Add.



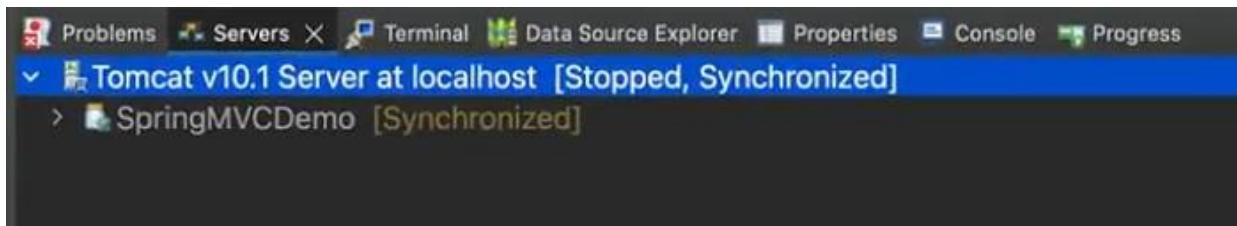
- Click Finish to add the project to the server.

7. Configure Server Options (Optional):

- Double-click the **Tomcat Server** under the Servers tab to open its configuration.
- We can configure details such as:
 - **Port:** Change the default port (8080) if needed.
 - **Server Location:** We can choose whether to use the default workspace metadata or a custom location for Tomcat's deployment.

8. Start the Server:

- Right-click on the Tomcat server under the Servers tab and select Start.



- The console will display server logs, and Tomcat will start.

```

Dec 23, 2023 6:26:23 PM org.apache.catalina.startup.Catalina load
INFO: Server initialization in [369] milliseconds
Dec 23, 2023 6:26:23 PM org.apache.catalina.core.StandardService startInternal
INFO: Starting service [Catalina]
Dec 23, 2023 6:26:23 PM org.apache.catalina.core.StandardEngine startInternal
INFO: Starting Servlet engine: [Apache Tomcat/10.1.16]
Dec 23, 2023 6:26:23 PM org.apache.jasper.servlet.TldScanner scanJars
INFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger
Dec 23, 2023 6:26:23 PM org.apache.catalina.core.ApplicationContext log
INFO: No Spring WebApplicationInitializer types detected on classpath
Dec 23, 2023 6:26:23 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-nio-8080"]
Dec 23, 2023 6:26:23 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [571] milliseconds

```

Code Link:

<https://github.com/navinreddy20/spring6-course/tree/c6690e4f2c70d8f530d70623f13d14ff0ffd7e7d/6%20Exploring%20Web%20MVC%20without%20Spring%20Boot/6.3%20Running%20Tomcat%20in%20Eclipse>