

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 'Community CODE' with a 'Denver, Colorado October 7-10, 2024' badge. Below the banner, there's a brief introduction about Jakarta EE and the Apache license. A 'Tomcat 11.0.0 Released' section highlights the new version, noting the move from Java EE to Jakarta EE and the changes in implemented APIs. The 'Download' section on the left lists various versions and connectors. The 'Documentation' section links to Tomcat 11.0, 10.1, and 9.0.

- 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:

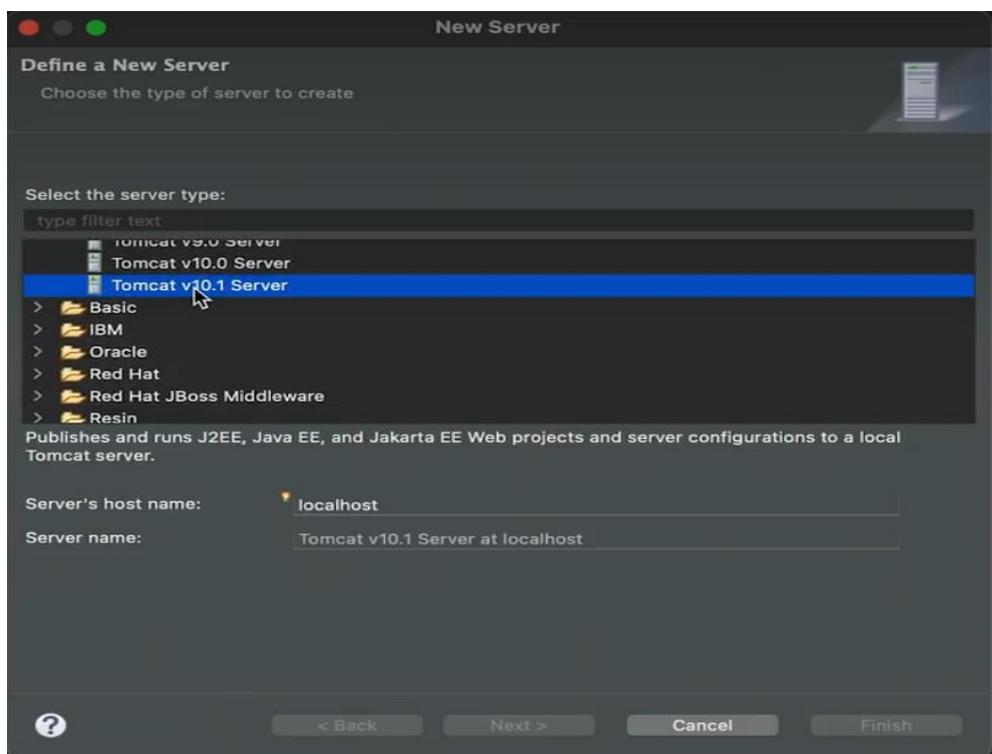
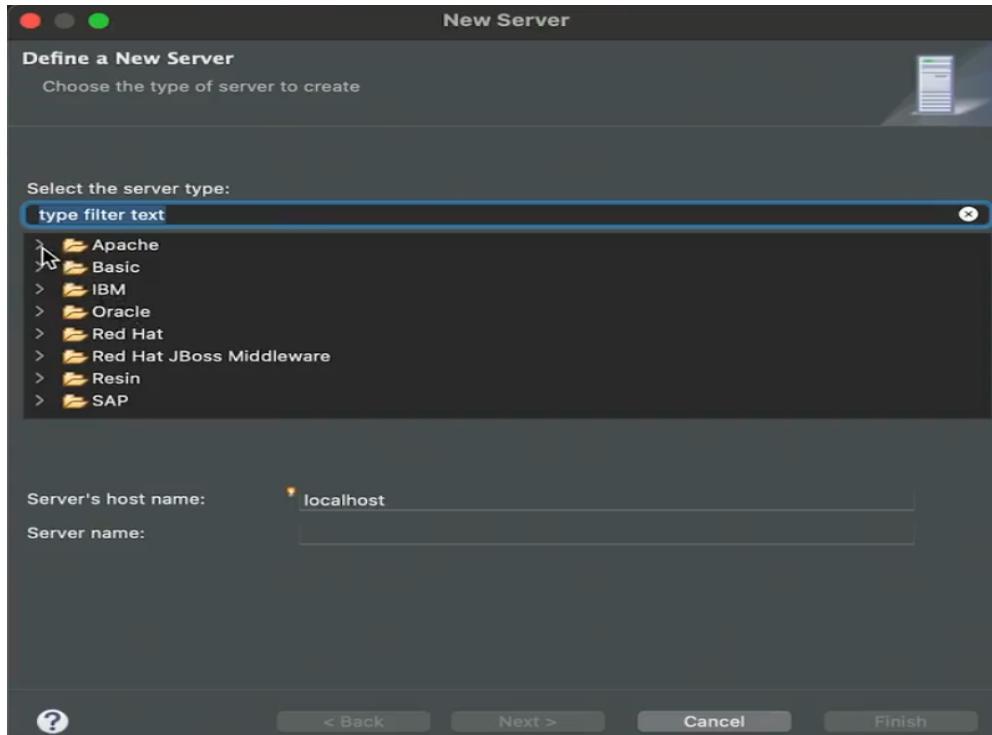
- Go to the Servers tab at the bottom of Eclipse.



- 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:

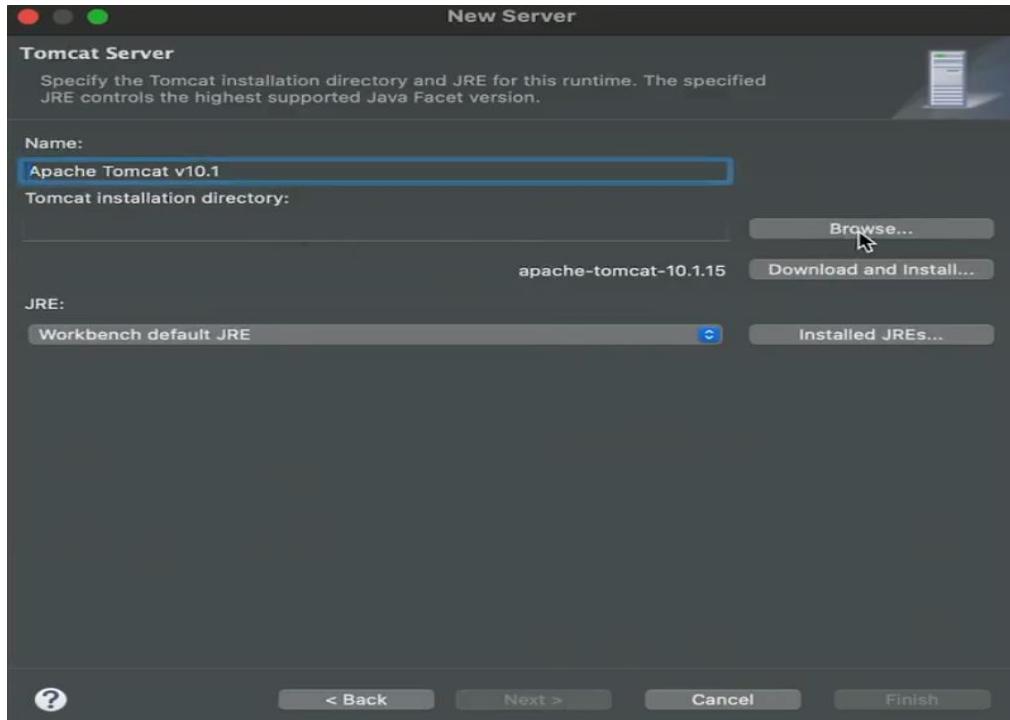
- In the **Define a New Server** dialog, expand the Apache option and select the version of Tomcat that you have downloaded.



- Click Next.

5. Configure Tomcat Installation:

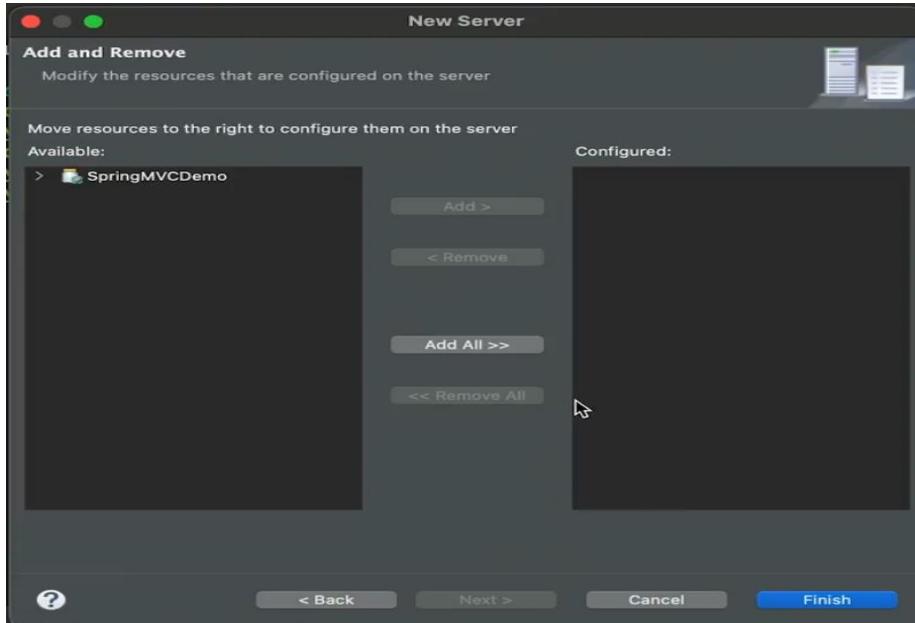
- Click the Browse button and navigate to the folder where you extracted Tomcat.



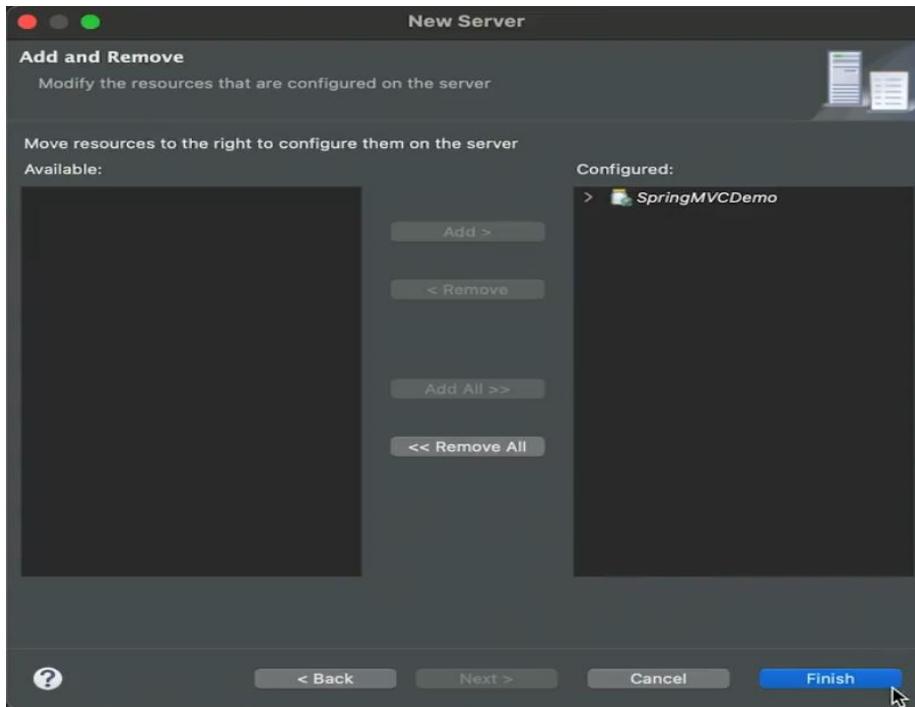
- Select the Tomcat home directory, then click Finish.

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>