

Installing Java related software's



- ★ Downloading and installing Java 16 software (Java Development Kit – 16)
- ★ Downloading and installing Tomcat 10 software
- ★ Downloading and installing Maven 3.8.1 software
- ★ Setting the Path variables
- ★ Writing and executing the Servlet 4.0 and Jakarta 5.0 programs
- ★ Writing and executing the Spring 5 programs
- ★ Issues with Tomcat 10 or Issues because of move from Java EE to Jakarta EE

NOTE : I am doing this on Windows 10 – 64 Bit Operating System. Please consider this point while doing on your PC.

In case, your operating system is Ubuntu 20 – 64 Bit then you have to download Ubuntu related software's.

Download and install JDK 16



- Open the browser
- Type download jdk 16 → Open Oracle official website → Click on download JDK 16
- Double click on downloaded JDK exe file → Click on next → next → Finish
- Take the jdk installation folder
- Go to,
 - Type Env in the search bar → Click on Edit the system environment variables
 - Click on Environment variables → Click on New... under System variables
 - Enter JAVA_HOME as Variable name and JDK home directory as Variable value and click on Ok → click on Ok → click on Ok
 - Click on Environment variables again → Select Path → Click on Edit...
 - Click on New → Add %JAVA_HOME% \bin → click on Ok → click on Ok → click on Ok

Download and install Apache Tomcat 10



- Open the browser →
- Type download Apache Tomcat 10 → Open Apache official website
- Click on download on Tomcat 10
- Double click on downloaded file → Click on next → next → Finish
- Take the Tomcat installation folder
- Go to,
 - Type Env in the search bar → Click on Edit the system environment variables
 - Click on Environment variables → Click on New... under System variables
 - Enter TOMCAT_HOME as Variable name **and** Tomcat home directory as Variable value **and** click on Ok → click on Ok → click on Ok
 - Click on Environment variables again → Select Path → Click on Edit...
 - Click on New → Add %TOMCAT_HOME% \bin → **and** click on Ok → click on Ok → click on Ok

Download and install Apache Maven 3.8.1



- Open the browser
- Type download Apache Maven 3.8.1 → Open Apache official website
- Click on download on Maven 3.8.1 → Extract Maven 3.8.1 ZIP File
- Go to,
 - Type Env in the search bar → Click on Edit the system environment variables
 - Click on Environment variables → Click on New... under System variables
 - Enter MAVEN_HOME as Variable name **and** Extracted folder of Maven home directory as Variable value and click on Ok → click on Ok → click on Ok
 - Click on Environment variables again → Select Path → Click on Edit...
 - Click on New → Add %MAVEN_HOME% \bin → click on Ok → click on Ok → click on Ok

NOTE : Set the path for M2_HOME as well, like MAVEN_HOME

Download the source code from GIT



Please download the source code from below GIT repository URL :

Enter this URL on browser - <https://github.com/ChandraKodam5/jakartaservletEE5>

Click on **Code** Drop-down → Click on **Download ZIP** → Open eclipse IDE

Goto **File** → **Import** → Existing projects into workspace → **Next** → click on **checkbox (select archive file)** → click on **Browse** → choose the downloaded **Spring5MVCExampleWithAnnotationConfig** and **JakartaServletEE5Project** ZIP files.

OR

Type the below command in git bash

```
$ git clone https://github.com/ChandraKodam5/jakartaservletEE5.git
```

Goto **File** → **Import** → Existing projects into workspace → **Next** → click on **checkbox (select archive file)** → click on **Browse** → choose the downloaded **JakartaServletEE5Project** ZIP file.

Issues with Tomcat 10 & Spring 5



Spring MVC 5 does not run on Tomcat 10 because of the package renaming from javax.* to jakarta.*.

After further research, I was able to find the answer to my question. Spring MVC 5 does NOT currently work on Tomcat 10. This is because Tomcat 10 is based on Jakarta EE 9 where package names for APIs have changed from javax.* to jakarta.*. But, Spring has not changed the packages from javax.* to jakarta.* till the version of Spring 5.3.7.

Please [click here](#) or below for further confirmation,

[spring-mvc-5-on-tomcat-10-deployment-problems](#)

Thank You



GIT Repository URL

<https://github.com/ChandraKodam5/jakartaservletEE5>

References

<https://www.youtube.com/watch?v=Rx8uoPmaVvE>