

Download and install the STS IDE (Spring Tool Suite)

Spring Tool Suite is an IDE to develop spring applications.

1. Download Spring Tool Suite from <https://spring.io/tools3/sts/all>. Click on the platform which you are using

Spring Tools 4 for Eclipse

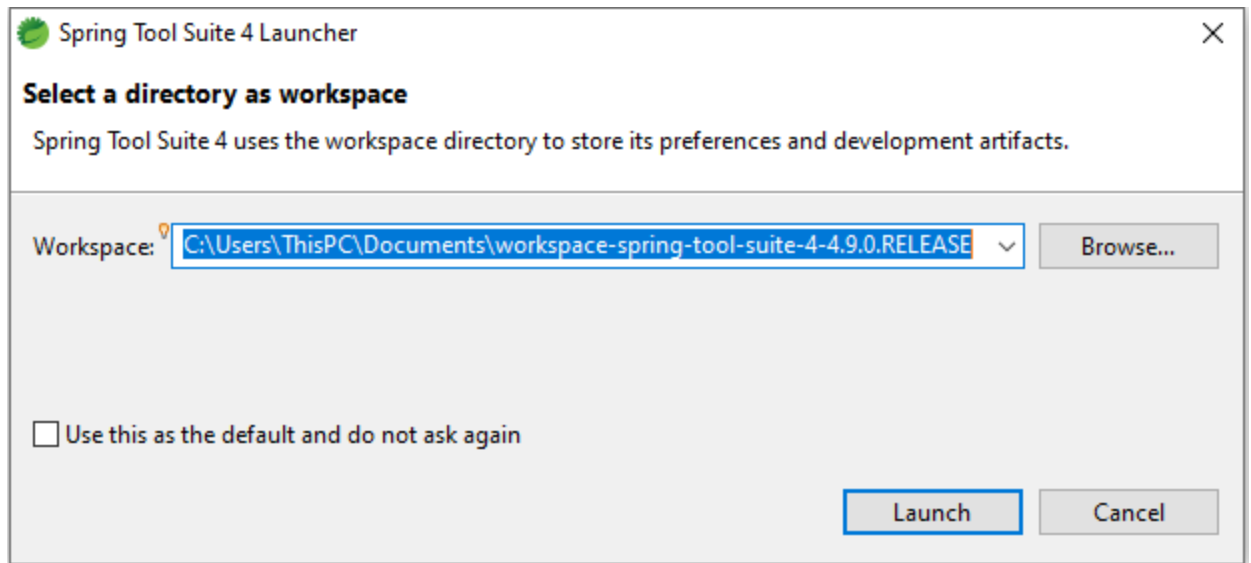
The all-new Spring Tool Suite 4.
Free. Open source.

4.9.0 - LINUX 64-BIT

4.9.0 - MACOS 64-BIT

4.9.0 - WINDOWS 64-BIT

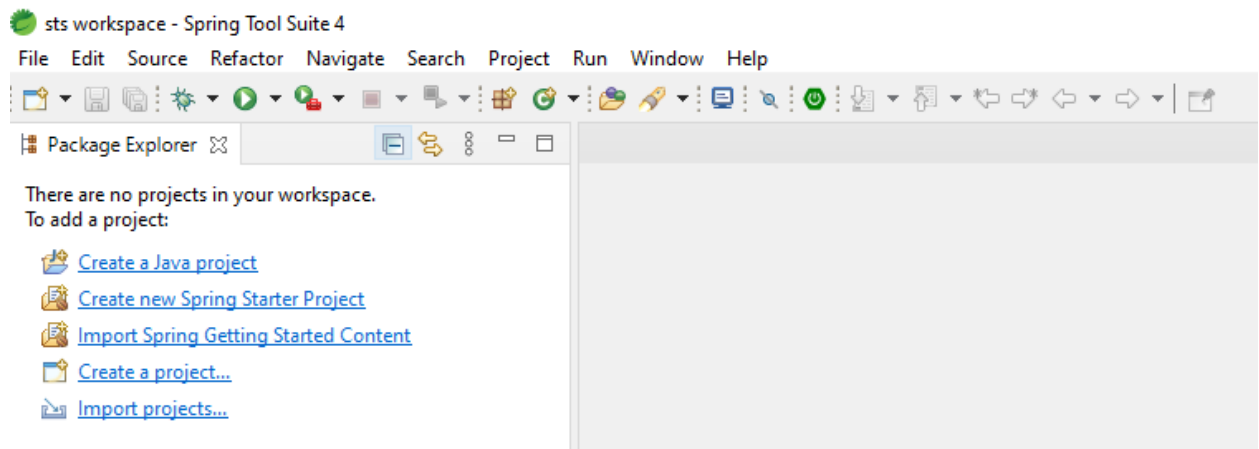
2. Select the windows 64 bit option
3. Go to download folder location, then double click on that file or Right click on file-> unzip it.
4. Go to sts-4.9.0.RELEASE folder.
5. Double click on SpringToolSuite4.exe file.
6. Spring too suite launcher box appears on screen as



7. Set the workspace location as default or if you want you can change it.

Note- The best way is always create the workspace on any drive except c drive. Due to some system issue or virus you need to immediately format the c drive.

8. Click on launch button and it takes some time.
9. STS looks like



Spring Boot-

What is the Spring Boot?

Spring Boot is a spring framework module which provides RAD (Rapid Application Development) feature to the spring framework.

Features of spring boot

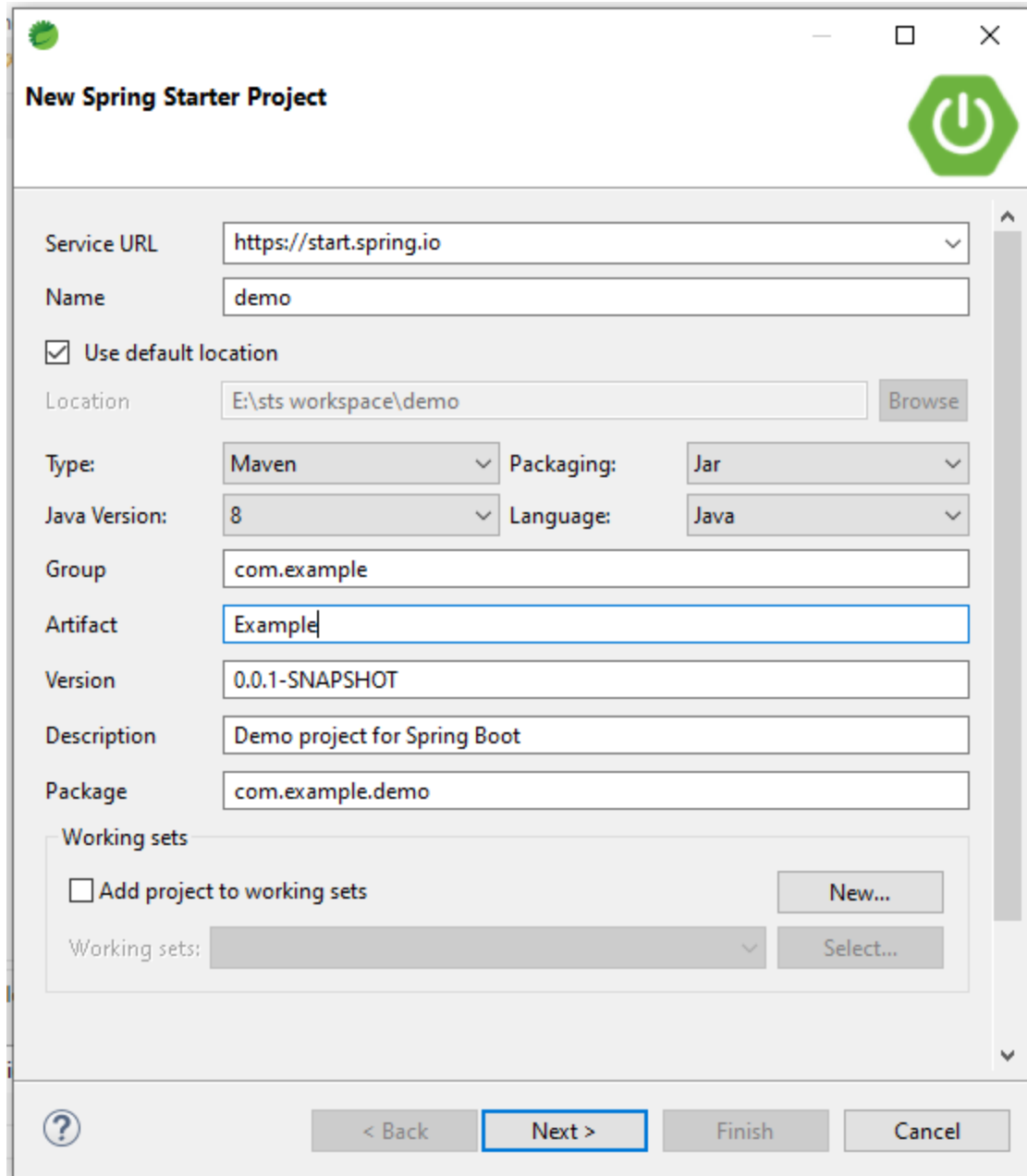
1. It allows avoiding heavy configuration of XML which is present in spring. in spring boot everything is auto-configured. We just need to use proper configuration for utilizing a particular functionality.
2. It includes embedded Tomcat-server, no need to add it manually.
3. Deployment is very easy, war and jar file can be easily deployed in the tomcat server.
4. Spring Application helps in the lazy initialization of the Spring applications. After enabling the lazy initialization, beans are created as per the requirement rather than during the application startup, which results in faster execution of the application. When enabling lazy initialization in a web application, some web-related beans are not initialized until an HTTP request is received.

Pre-requisites

- Java 1.8
- Maven 3.0+
- An IDE (Spring Tool Suite) is recommended.

How to create the Spring Boot Maven Project-

File->New-> Spring Starter Project-> dialog appears as



The image shows a 'New Spring Starter Project' dialog box. It has a title bar with a green icon on the left and standard window controls on the right. A green power button icon is in the top right corner. The dialog contains several input fields and checkboxes. The 'Service URL' is a dropdown menu set to 'https://start.spring.io'. The 'Name' field contains 'demo'. There is a checked checkbox for 'Use default location'. The 'Location' field contains 'E:\sts workspace\demo' with a 'Browse' button to its right. Below these are two rows of dropdown menus: 'Type:' (Maven), 'Packaging:' (Jar), 'Java Version:' (8), and 'Language:' (Java). The 'Group' field contains 'com.example', the 'Artifact' field contains 'Example', the 'Version' field contains '0.0.1-SNAPSHOT', the 'Description' field contains 'Demo project for Spring Boot', and the 'Package' field contains 'com.example.demo'. A 'Working sets' section at the bottom has an unchecked checkbox 'Add project to working sets', a 'New...' button, and a 'Working sets:' dropdown menu with a 'Select...' button. At the very bottom are four buttons: a help icon (?), '< Back', 'Next >' (highlighted with a blue border), 'Finish', and 'Cancel'.

New Spring Starter Project

Service URL:

Name:

☒ Use default location

Location:

Type: Packaging:

Java Version: Language:

Group:

Artifact:

Version:

Description:

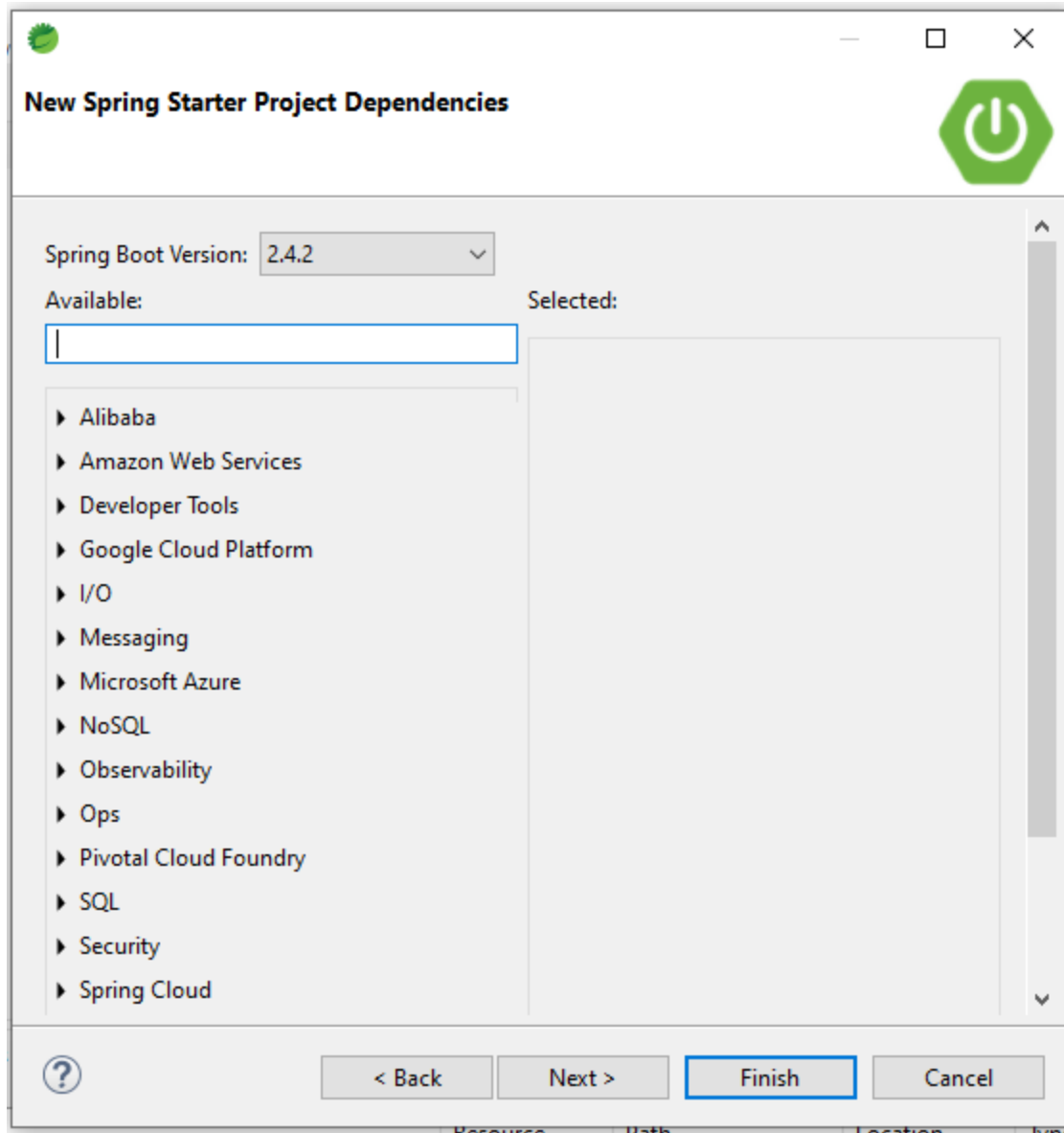
Package:

Working sets

☐ Add project to working sets

Working sets:

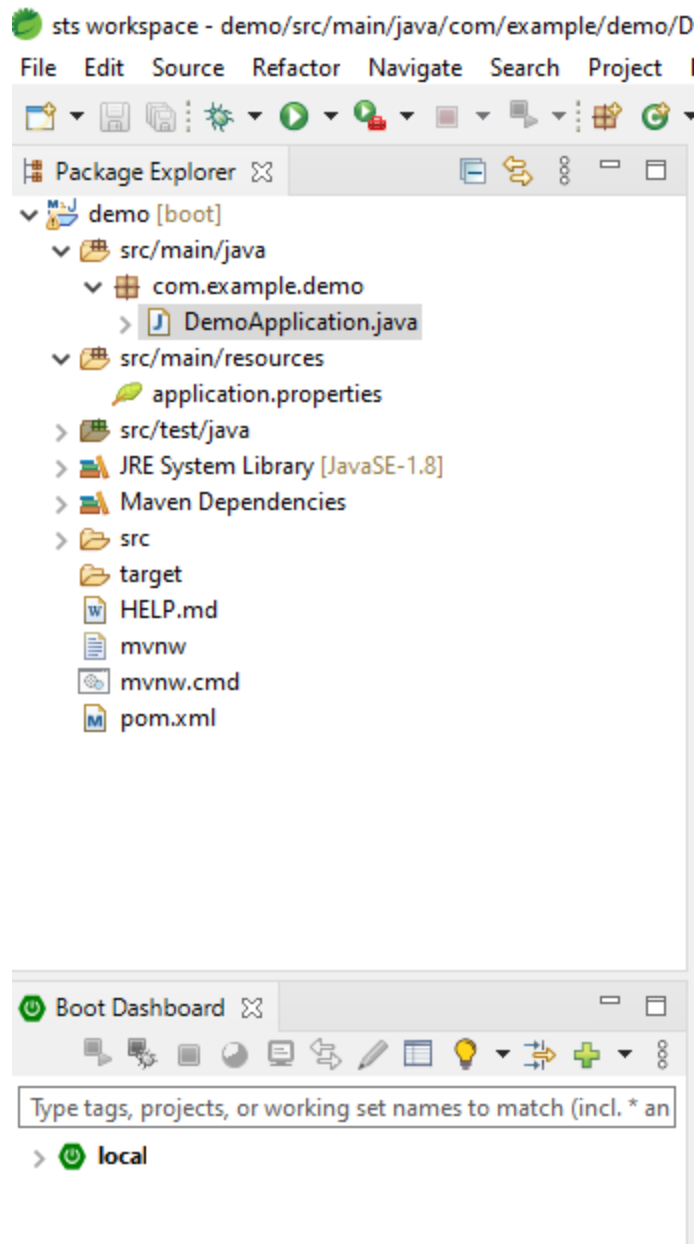
Enter the group id and artifact id and click on Next button.



If you want, you can select the dependencies otherwise click on finish button.

Then

Project structure looks like as



Note- @SpringBootApplication this annotation is equivalent to @Configuration, @ComponentScan, @EnableAutoConfiguration

