

Spring Tool Suite (STS) Setup Steps

1. Download STS from the Official Website

- Visit [Spring Tools 4 for Eclipse](https://spring.io/tools) and download the appropriate version for your operating system.

2. Extract the Software

- Locate the downloaded ZIP file and extract it using built-in tools or software like WinRAR/7-Zip.

3. Move the Extracted Folder

- After extraction, rename the folder to `stside`.
- Move the folder to a preferred location:
 - C:\stside (if using the C drive)

4. Create a Desktop Shortcut

- Open the `stside` folder.
- Locate the STS executable file (SpringToolSuite4.exe).
- Right-click on the leaf icon (STS logo) and select Send to → Desktop (Create Shortcut).

5. Fix JRE/JDK Errors (If Any)

- If you encounter a JRE error, the root cause is usually an incorrect or missing JDK setup.
 - Ensure that JDK is installed and matches the required version (e.g., JDK 17,21).
 - Set up the JAVA_HOME and Path environment variables:
 1. Open System Properties → Advanced → Environment Variables.
 2. Under System Variables, find `JAVA_HOME`. If not present, create a new variable:
 - Name: `JAVA_HOME`
 - Value: `C:\Program Files\Java\jdk-17` (or your JDK installation path).
 3. Edit the `Path` variable and add:
 - `%JAVA_HOME%\bin`
 4. Move this entry to the top of the list for better priority.
 5. Click OK and restart your system.

Step-by-Step: Create a New Spring Boot Project in STS

1. Go to File → New → Spring Starter Project

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2. Enter Project Details

- Name: Enter your project name.
- Type: Choose Maven.
- Language: Select Java.
- Java Version: Choose the installed Java version (e.g., 17 or 21).
- Snapshot: This refers to the packaging system. The recommended version is 3.3.10.
- Click Next.

3. Add Dependencies

- Add necessary dependencies based on project requirements.
- Commonly used dependencies:
 - Spring Web (for building web applications)
 - Spring Boot DevTools (for automatic reload during development)

- Type the dependency name in the search bar and add it.
4. Click Finish to generate the project.