

Maven: For build automation

Setting Up Maven in Eclipse



▼ 1. Installing Maven in Eclipse:

- Eclipse IDE for Java Developers typically comes with Maven preinstalled. If not:
 - 1. Open Eclipse.
 - 2. Go to Help \rightarrow Eclipse Marketplace.
 - 3. Search for Maven Integration for Eclipse and install it.

▼ 2. Creating a Maven Project in Eclipse:

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New Maven project					
Select an Archetype					
Catalogy All Catalogy		Configure			
Catalog: All Catalogs		• Conligure			
Filter:		×			
Group Id	Artifact Id	Version ^			
org.apache.maven.archetypes	maven-archetype-portlet	RELEASE			
org anache mayen archetynes	maven-archetyne-profiles	RELEASE			
org.apache.maven.archetypes	maven-archetype-quickstart	RELEASE			
org.apacne.maven.arcnetypes	maven-arcnetype-site	RELEASE			
org.apache.maven.archetypes	maven-archetype-site-simple	RELEASE			
org.apache.maven.archetypes	maven-archetype-webapp	RELEASE			
org.apache.maven.archetypes	softeu-archetype-jsf	RELEASE 🗸			
		~			
		~			
Show the last version of Archetype only	Include snapshot archetypes	Add Archetype			
Advanced					
Auvanceu					
(?)	Back Next > Finish	Cancel			
Ŭ					

- 1. File \rightarrow New \rightarrow Other \rightarrow Select Maven Project.
- 2. Check **Create a simple project** (skip the archetype selection), then click **Next**.
- 3. Provide **Group Id** (e.g., **com.example**) and **Artifact Id** (e.g., **musicFinder**), and click **Finish**.
- 4. A pom.xml file will be generated. This file manages dependencies and build instructions for Maven.

▼ 3. Importing an Existing Maven Project:

- 1. File \rightarrow Import \rightarrow Existing Maven Projects.
- 2. Browse and select the folder containing the project, then click **Finish**.

▼ 4. Running a Maven Project in Eclipse:

	Edit Configuration					
Edit configuration and launch. Maven - mvn clean install Configuration Steps in Eclipse IDE						
Name: CrunchifySpringMVCTutorial						
The main IRE of Refresh by Source Reference Environment Common						
Base directory:						
/Users/appshah/Documents/Blogs/crunchify-workspace/CrunchifySpringMVCTutorial						
Step-1 - provide goal Browse Workspace Browse File System Variables						
Goals:	mvn clean install					
Profiles:						
User settings:	: /Users/appshah/.m2/crunchify-settings.xml File					
	Offline Update Snapshots					
	Debug Output Skip Tests Non-recursive					
	C Resolve Workspace artifacts Step-2 Skip tests Threads					
	Revert Apply					
	Step-3 Apply and click Run					
crunchify.c	Close Run					

- 1. Right-click the project in the **Project Explorer**.
- 2. Run As \rightarrow Maven Build.
- 3. Enter **clean install** as the build goal to clean and install the project.

Setting Up Maven in VS Code



▼ 1. Installing Maven Extension in VS Code:



- Open VS Code and go to the Extensions marketplace (or press ctrl + shift + x).
- 2. Search for and install the Maven for Java extension.
- 3. Optionally, install Java Extension Pack for better Java support.
- ▼ 2. Creating a Maven Project in VS Code:

Select the project type



- 1. Press **F1** to open the command palette, then type **Maven: Create Maven Project**.
- 2. Select the desired **archetype** or skip for a simple project.
- 3. Provide **Group Id** (e.g., **com.example**) and **Artifact Id** (e.g., **musicFinder**), then select the directory to create the project.
- 4. A pom.xml file will be generated to manage dependencies.

▼ 3. Importing an Existing Maven Project:

- 1. Open VS Code, click on File \rightarrow Open Folder.
- Select the folder with the Maven project (pom.xml will be automatically detected).

▼ 4. Running a Maven Project in VS Code:

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 >	New Java Class		
> 🖻 src/test/java 💷	New Раскаде		
> 🖻 JRE System Libra	Reveal in Explorer	Shift+Alt+R	
> 🛱 Maven Depende	Copy Path	Shift+Alt+C	
	Copy Relative Path	Ctrl+K Ctrl+Shift+C	
	Rebuild All		
	Rebuild Project		
	Run		Reload Project
	Debug		Open POM file
	Maven	>	Run Maven Commands

- 1. Open the **Terminal** (ctrl +) and navigate to the project directory.
- 2. Run the following Maven command:

mvn clean install

3. Alternatively, use the **Run button** on top of the pom.xml file in VS Code to run the project.

