10 MAVEN Commands used in Day to Day Automation

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1. mvn clean

mvn clean is a command used in Apache Maven, a build automation tool for Java projects. When you run mvn clean, Maven will delete the target directory, which contains the compiled code and any generated files, and then re-create it. This is often useful when you want to make sure that your project is built from scratch, without using any previously compiled code or generated files that may have been created during previous builds.

2. mvn compile

When you run mvn compile, Maven will compile the source code in your project and create the compiled class files in the target directory.

To use mvn compile, you will need to have Maven installed on your computer and be in the root directory of your Java project. You can then run the command from the command line by typing mvn compile and pressing Enter.

3. mvn testCompile

When you run mvn testCompile, Maven will compile the test source code in your project and create the compiled class files in the target directory.

Test source code is typically stored in a separate directory from the main source code in a Java project. The test source code is used to write unit tests and other types of tests that can be run to ensure that the code is working correctly.

4. mvn package

When you run mvn package, Maven will compile the source code in your project, package it into a JAR or other executable file, and place the file in the target directory.
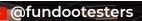
5. mvn install

Maven will compile the source code in your project, package it into a JAR or other executable file, and then install the file in your local Maven repository.
A local Maven repository is a directory on your computer where Maven stores the JAR files for all the dependencies of your project.

6. mvn deploy

mvn deploy is a command that is used to deploy a built Java project to a remote repository. It is a part of Apache Maven, which is a build automation tool for Java projects.

7. mvn validate

mvn validate is a command used in Apache Maven, a build automation tool for Java projects. When you run mvn validate, Maven will check the project to make sure that it is properly structured and that all required information is present.

Maven uses a project object model (POM) to describe the structure of a project and its dependencies. The POM is stored in a file called pom.xml in the root directory of the project. When you run mvn validate, Maven will check the POM to make sure that it is well-formed and contains all the necessary information.

8. mvn archetype

mvn archetype:generate is a command that is used to generate a Maven project from an archetype. An archetype is a Maven project template that provides a predefined structure and set of files for a new project.

9. mvn test

mvn test is a command used in Apache Maven, a build automation tool for Java projects. When you run mvn test, Maven will compile the test source code in your project and run the unit tests and other types of tests that you have written.

Test source code is typically stored in a separate directory from the main source code in a Java project. The test source code is used to write unit tests and other types of tests that can be run to ensure that the code is working correctly.

10. mvn -help

The mvn -help command is used to display a list of all available command line options for Apache Maven.

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