

Maven Command Cheat Sheet for Selenium Automation

1. Basic Maven Commands

- mvn -v - Show Maven version and Java details.
- mvn clean - Delete the target/ folder for a fresh build.
- mvn compile - Compile source code.
- mvn test - Run TestNG/Surefire tests.
- mvn package - Package compiled code into JAR/WAR.
- mvn install - Install package to local Maven repo.
- mvn clean install - Clean, compile, test, and install everything.

2. Test Execution Commands

- mvn test -DsuiteXmlFile=testng.xml - Run a specific TestNG suite file.
- mvn test -Dtest=LoginTest - Run only a specific test class.
- mvn test -Dtest=LoginTest#verifyLogin - Run a specific test method.
- mvn test -Dgroups=regression - Run tests by group name.
- mvn test -Denv=qa - Pass environment variable for test execution.

3. Common Combined Commands

- mvn clean test - Clean and run all tests.
- mvn clean package - Clean and build a JAR/WAR after tests.
- mvn clean install -DskipTests - Build project without executing tests.

4. Useful Debug / Info Commands

- mvn -X - Run Maven in debug mode (detailed logs).
- mvn dependency:tree - Display dependency hierarchy.
- mvn help:effective-pom - Show final merged POM.
- mvn versions:display-dependency-updates - Check for newer dependency versions.

5. Typical CI/CD Commands

- mvn clean install -DsuiteXmlFile=testng.xml -Denv=qa - Run automation in CI environment.
- mvn test -Dbrowser=chrome - Run tests in Chrome browser.
- mvn clean verify -Dparallel=methods - Execute tests in parallel mode.