

MAVEN

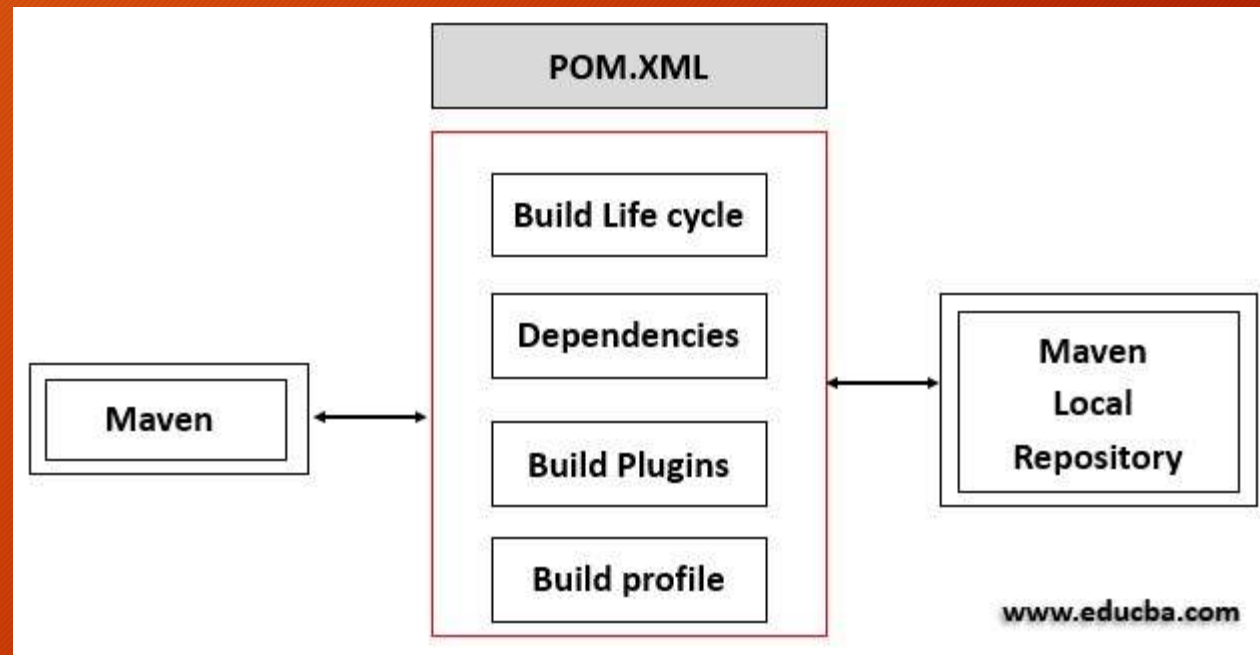
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Maven is a build tool that is mostly used for java projects. It simplifies the build process by managing the dependencies mainly and handling the configuration in a standardized way to make it easier to install in another machine and more manageable in case it needs certain configuration in different machines.

POM.XML

- In this document maven defines the structure of the project. Here in puts the dependencies of the Project that it downloads from a central repository.



Basic Commands

- mvn clean: Cleans the project by removing the target directory.
- mvn compile: Compiles the source code.
- mvn test: Runs the unit tests.
- mvn package: Packages the compiled code into a JAR/WAR file.
- mvn install: Installs the package into the local repository for use in other projects.
- mvn deploy: Deploys the package to a remote repository for sharing with other developers.

Basic Commands

- `mvn clean install`: Executes the clean phase followed by the install phase.
- `mvn clean package`: Executes the clean phase followed by the package phase.
- `mvn site`: Generates a site with project documentation, including reports on code quality, test coverage, and more.
- `mvn help:effective-pom`: Displays the effective POM that results from combining the `pom.xml` with inherited POMs and profiles.
- `mvn dependency:tree`: Displays the project's dependency tree, showing how dependencies are related and their versions.

Basic Commands

- `mvn clean validate package`: Runs clean, validate, and package phases in sequence.
- `mvn versions:display-dependency-updates`: Shows which dependencies have newer versions available.
- `mvn validate`: Validates the project's configuration and setup to ensure it is correct and complete.
- `mvn verify`: Performs any necessary checks to verify the integrity and quality of the project's package.

Conclusions

- Even tho i have been using maven for many of my projects i never went out of my way to get more context for it other that “its the thing i use to get my dependencies in order”, but now i get more insight in many of its commands and the fact that its so good when you want to install to setup a program in another machine and you know how the structure of your proyect is setup.

