

Maven

- * Apache maven is a slw project management & comprehensi-
tool. Based on the concept of a project object Model (pom)
- * Maven can manage a project's build, reporting & document-
tion from a central piece of information.
- * Maven makes life of developer easy while creating reports,
checks, build & testing automation setups.

Pom.xml

- * Maven project structure & contents are declared in
an xml file, pom.xml referred as pom. which is the
fundamental unit of the entire maven system
- * The pom contains information about the project &
various configuration detail used by maven to build
the projects.
- * pom also contains the goals & plugins. while executing
a task or goal. Maven looks for the pom in the current
directory. It reads the POM, gets the needed configuratio

* It should be noted ~~that~~ there should be a single pom file for each project

* All pom files require the project element and three mandatory fields

groupId

artifactId

version

* Project's notation in repository is

groupId:artifactId:version

* Root element of POM.xml is project & it has three major sub-nodes.

Maven Life Cycle

Compile → compile the given programs

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Test → apply the test cases

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packages → creates war(or).jar files

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Install → install a war or jar file in local repository

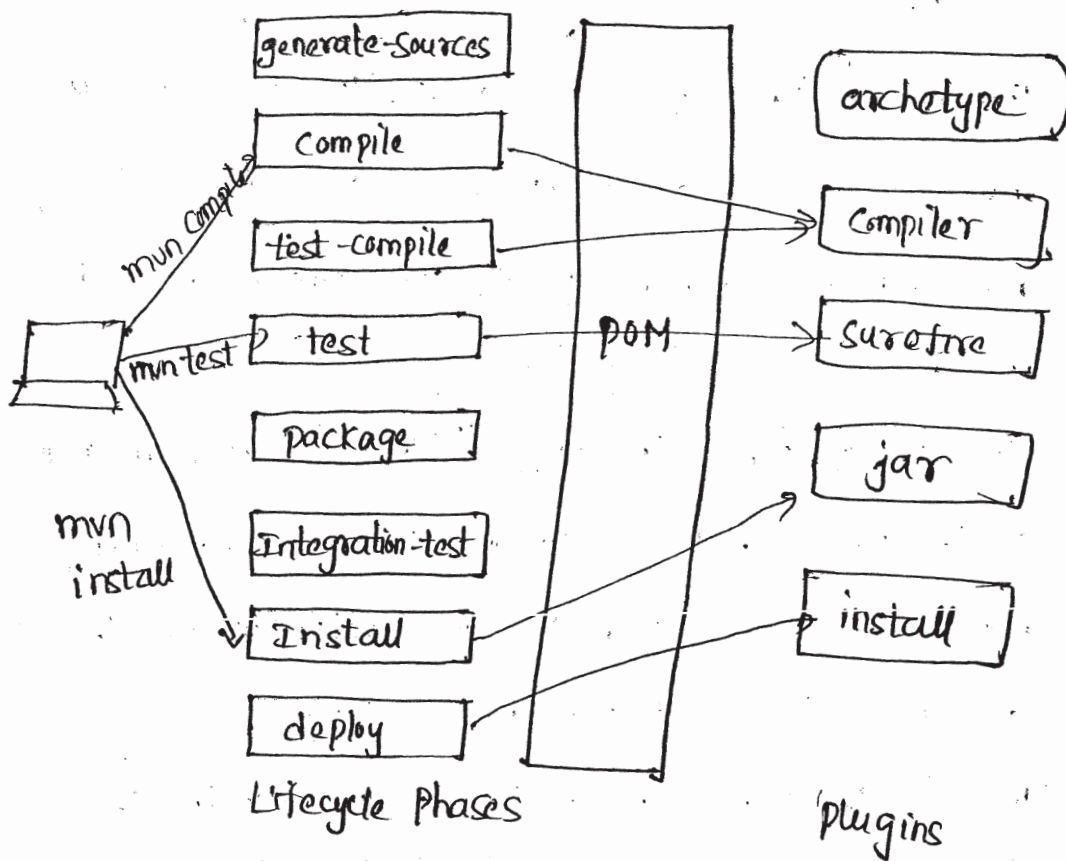
|
deploy → can deploy the application in Global Repository
or an app

Server (Tomcat)

Note	Description
groupid	This is an id of project's group. This is generally unique amongst an organization or a project. For example, a banking group com.company.bank has all bank related projects.
artifactid	This is an id of the project. This is generally name of the project. For example, consumer-banking. Along with the groupid, the artifactid defines the artifact's location within the repository.
version	This is the version of the project. Along with the groupid, it is used within an artifact's repository to separate versions from each other. For example: com.company.bank:consumer-banking-1.0 com.company.bank:consumer-banking-1.1

Maven Install

```
#apt-get update
#apt-get install openjdk-7-jdk-y
#apt-get install tomcat7-y
#apt-get install maven-y (or)
#apt-get install maven2-y
#maven-version
```



Ansible

Introduction

- * configuration management systems are designed to make controlling large number of servers easy for administrators & operation teams.
- * They allow you to control many different systems in an automated way from one central location.
- * Ansible is a radically simple IT automation tool that makes your system easier to deploy.