MAVEN

Pom.xml

Build tool

Project management tool

Local repo { build machine pom.xml } Remote repo

Local repo pulls plugins and builds

Maven default lifecycle:

Generate-sources/resources

Compile

Test

Package

Integration-test (pre and post)

Install

Deploy

Parent proj dir:

Src:

-main

-java

-resources

-assembly

-config

-test

-java

- resources

- filters

-pom.xl

PROJECT NAME ( GAV )

groupId - arbitrary project grouping identifier

artifactId “ name of project

version: version of project

syntax g:a:v

build plugins: execute during build plugins

reporting plugins: execute during site generation

STRUCTURE

project

plugins parent

plugin child

groupid

architectId

ver

executions

execution

phase. Compile. /Phase

goals

goal test /goal

/goals

<configuration>

</configuration>

/execution

/executions

/plugins

/project

Exec plugin

Profiles

Profile

Id /id

Profile

Profiles

argument

/argument

Snapshot 1.2.3 major minor patch

Snapshot - project under development

And it indicates current version of project

Multi Module project:

Each module has pom.xml file and src files

Once we run package it creates target folder in where we get jar file(snapshot)

For too many modules project :

We don’t need src file and just pom.xml file

Parent pom takes care of everything

And in packaging we write pom instead of jar or war

And

modules

Module 1 /module inside each module include GAV in parent dir

Module 2. /module

/modules

If module a is dependent on b give the gav of b in a in pom.xml file

We use

Dependencies

Dependency

G

A

V

Dependency

/dependencies

If any file is missing we use mvn install

Update version:

Mvn versions:set -DnewVersion=newversion

Mvn versions:commit

Mvn versions:revert

Settings.xml file

Mvn compile target folder will be created

Mvn test-compile test classes in target

Mvn clean. Del target dir

Mvn tests

War

Jar

Ear

Transitive dependency ,,,, we can check it by dependency hierarchy

We include <exclusions> if we don’t want certain dependency

Effective pom = pom+parent pom