



Maven Build Life Cycle

mvn clean : to clean local repo.

mvn compile : to compile the code

mvn test : to apply test cases

mvn package : to prepare a Package

mvn install : to Install a file Local Repo. [.m2]

mvn deploy : to deploy a file remote server /
Global repos (nexus)

Example POM

```
<project xmlns=http://maven.apache.org/POM/4.0.0  
  xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance  
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0  
    http://maven.apache.org/xsd/maven-4.0.0.xsd">  
  <modelVersion>4.0.0</modelVersion>  
  <groupId>com.companyname.project-group</groupId>  
  <artifactId>project</artifactId>  
  <version>1.0</version>  
</project>
```

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**.
- Projects notation in repository is **groupId:artifactId:version**.
- Root element of POM.xml is **project** and it has three major sub-nodes :

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**
- **#mvn -version**

Distribution Installation



Apache / Maven / Download Apache Maven

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Downloading Apache Maven 3.5.2

Files

Maven is distributed in several formats for your convenience. Simply pick a ready-made binary distribution archive and follow the [installation instructions](#). Use a source archive if you intend to build Maven yourself.

In order to guard against corrupted downloads/installations, it is highly recommended to [verify the signature](#) of the release bundles against the public [KEYS](#) used by the Apache Maven developers.

	Link	Checksum	Signature
Binary tar.gz archive	apache-maven-3.5.2-bin.tar.gz	apache-maven-3.5.2-bin.tar.gz.md5	apache-maven-3.5.2-bin.tar.gz.asc
Binary zip archive	apache-maven-3.5.2-bin.zip	apache-maven-3.5.2-bin.zip.md5	apache-maven-3.5.2-bin.zip.asc
Source tar.gz archive	apache-maven-3.5.2-src.tar.gz	apache-maven-3.5.2-src.tar.gz.md5	apache-maven-3.5.2-src.tar.gz.asc
Source zip archive	apache-maven-3.5.2-src.zip	apache-maven-3.5.2-src.zip.md5	apache-maven-3.5.2-src.zip.asc

Distribution Installation

```
#vi ~/.profile (or) #vi ~/.bashrc
```

```
export JAVA_HOME="/opt/jdk1.8.0_151"
```

```
export PATH=$JAVA_HOME/bin:$PATH
```

```
export CATALINA_HOME="/opt/apache-tomcat-9.0.2"
```

```
export PATH=$CATALINA_HOME/bin:$PATH
```

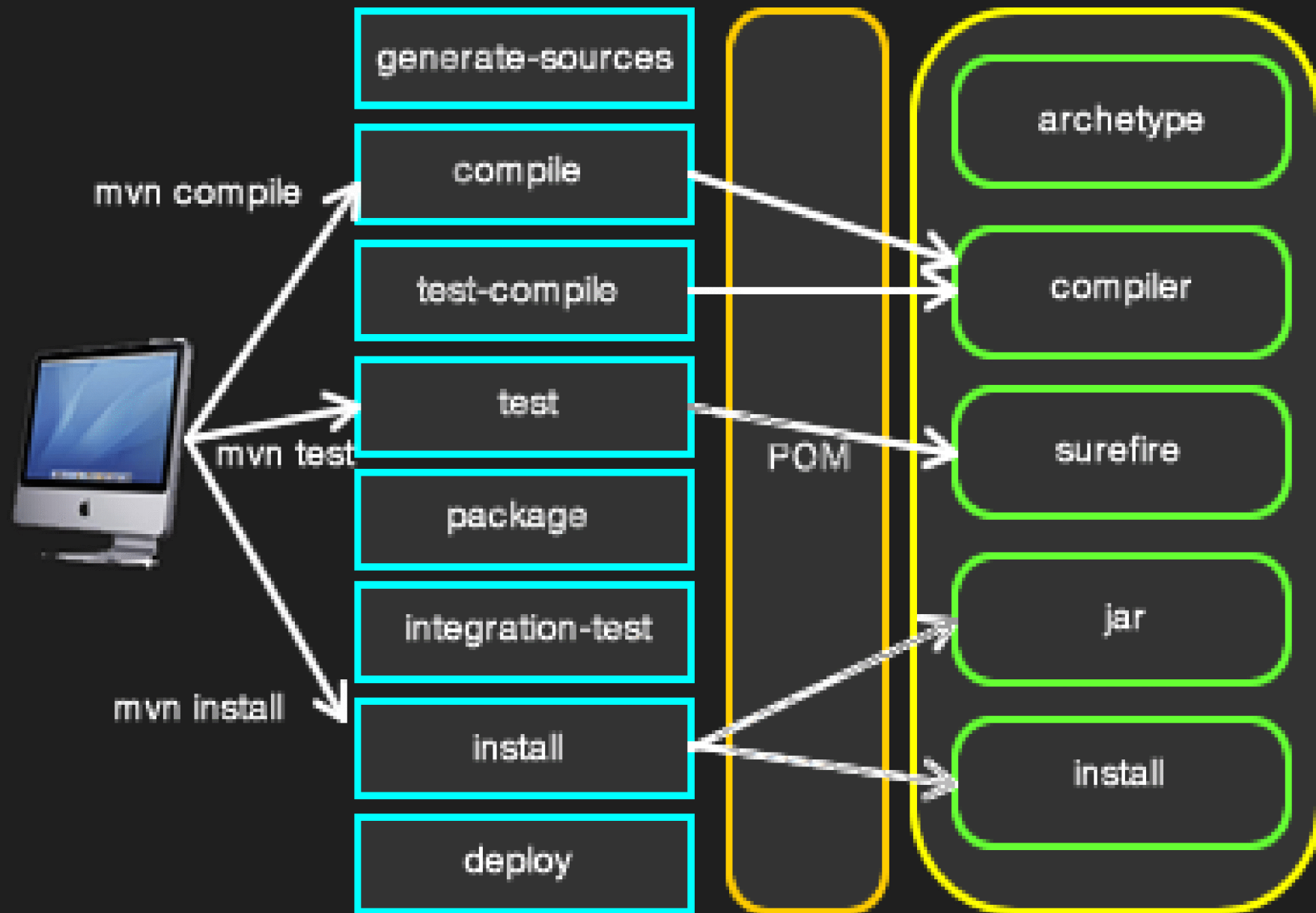
```
export M2_HOME="/opt/apache-maven-3.5.2"
```

```
export PATH=$M2_HOME/bin:$PATH
```

```
export ANT_HOME="/opt/apache-ant-1.10.1"
```

```
export PATH=$ANT_HOME/bin:$PATH
```

```
# source .profile
```



Lifecycle Phases

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Plugins