



The logo for Apache maven consists of the word "Apache" in a large, black, sans-serif font above the word "maven". The "m" in "maven" is colored orange. A large, colorful, stylized feather graphic, composed of many small segments in shades of red, orange, yellow, and purple, is positioned behind the text. The feather's tip points towards the bottom right.

maven
.com

XML element project attributes :

Attributes	Description
name	The Name of the project. (Optional)
default	The default target for the build script. A project may contain any number of targets. This attribute specifies which target should be considered as the default. (Mandatory)
basedir	The base directory (or) the root folder for the project. (Optional)

Apache Ant Installation on Ubuntu

- `#apt-get update`
- `#apt-get install openjdk-7-jdk -y`
- `#apt-get install tomcat7 -y`
- `#apt-get install git-core -y`
- `#apt-get install ant -y`
- `#ant -version`

Building a Project

Download a Project:

```
#git clone
```

```
https://github.com/sathyadevops/antproj.git
```

```
#cd antproj
```

```
#vi build.xml
```

```
#ant (it generates .war file in /dist dir)
```

```
#cp ./dist/AntExample.war
```

```
 /var/lib/tomcat7/webapps/
```

```
#service tomcat7 restart
```

Open browser <http://ip:8080/AntExample>

```
#vi ~/.profile  
export JAVA_HOME=/opt/jdk1.8.0_121  
export PATH=$JAVA_HOME/bin:$PATH  
export M2_HOME=/opt/apache-maven-3.3.9  
export PATH=$M2_HOME/bin:$PATH  
export CATALINA_HOME=/opt/apache-tomcat-  
8.5.12  
export PATH=$CATALINA_HOME/bin:$PATH  
export ANT_HOME=/opt/apache-ant-1.10.1  
export PATH=$ANT_HOME/bin:$PATH  
#source .profile
```

Maven LifeCycle

Compile ---> compile the given Programs

|
Test ----> apply the test cases

|
Package ---> creates .war (or) .jar files

|
Install ----> install a war in Local repository(.m2)

|
deploy ----> can deploy the application in
Global Repository (or) an App

Server(Tomcat)

Node	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: <i>com.company.bank:consumer-banking:1.0</i> <i>com.company.bank:consumer-banking:1.1.</i>

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`

