Maven

**Prerequisites:**

Maven Guide:

<http://maven.apache.org/guides/>

Supplementary references:

<https://examples.javacodegeeks.com/enterprise-java/maven/maven-settings-xml-example/>

## Lecture 1

### Lecture is divided into 2 parts:

* Overview, theory, demonstration (Corporate Nexus, building app, real project)
* Intellij Idea Maven support (goals, phases)

**Maven Content:**

**Central repo**

**Nexus repo**

1. **settings.xml**

Example: (<https://github.com/apache/maven/blob/master/apache-maven/src/conf/settings.xml> ):

Maven installation: $M2\_HOME/conf/settings.xml (unix notation), where M2\_HOME is the maven install directory.

User directory: ${user.home}/.m2/settings.xml (unix notation), where user.home is the user home directory

**Define:**

Mirrors servers (with passwords) proxies profiles...

1. **>**mvn archetype:generate -DgroupId=com.mycompany.app -DartifactId=my-app -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false

**mvn package**

mvn clean

mvn build

mvn install

java -cp target/my-app-1.0-SNAPSHOT.jar com.mycompany.app.App

1. Phases, Goals, Plugins

* Demonstrate pom settings for phases and goals
* Add tomcat plugin and generate war archive

1. Maven plugin and profiles

> mvn -PactiveProfileId install:install

<profiles>

<!-- NOTE: The release profile will be removed from future versions of the super POM -->

<profile>

<id>release-profile</id>

<!-- Tomcat plugin -->

<!-- mvn org.apache.tomcat.maven:tomcat7-maven-plugin:2.2:run -->

<build>

<pluginManagement>

<plugins>

<plugin>

<groupId>org.apache.tomcat.maven</groupId>

<artifactId>tomcat7-maven-plugin</artifactId>

<version>2.2</version>

<configuration>

<url>http://localhost:8080/manager/text</url>

</configuration>

</plugin>

</plugins>

</pluginManagement>

</build>

<!-- NOTE: The release profile will be removed from future versions of the super POM -->

</profile>

</profiles>

Look into the pom.xml in the repo:

my-app/pom.xml