

Wikiprint Book

Title: EclipseDevelopment/JavaMavenIntegration

Subject: TracMeteo - EclipseDevelopment/JavaMavenIntegration

Version: 14

Date: 05/25/2022 09:18:49 AM

Table of Contents

1- How to download and install JDK	3
2- Configuration of Java Environment variables in our system (Windows and Linux)	3
3 - Download and configuration of Apache Maven	3
4- Check if your configuration is OK	3
5- Prepare Eclipse to use Maven (m2eclipse plugin)	3

In order to prepare Eclipse for Java Development, it is necessary to install JDK(Java Development Kit) in the system. Eclipse will use it to compile classes, provide an api and execute java apps. The installation also includes the JRE (Java Runtime Environment) and JVM which executes compiled programmes.

1- How to download and install JDK

Choose your system and download the latest JDK Version from this url:

[?http://www.oracle.com/technetwork/java/javase/downloads/java-se-jdk-7-download-432154.html](http://www.oracle.com/technetwork/java/javase/downloads/java-se-jdk-7-download-432154.html)

Linux installation requires some additional steps because Ubuntu repositories don't contain Oracle JDK.

```
tar -xvf jdk-7u3-linux-x64.tar.gz
sudo mkdir -p /usr/lib/jvm/jdk1.7.0
sudo mv jdk1.7.0_03/* /usr/lib/jvm/jdk1.7.0/
sudo update-alternatives --install "/usr/bin/java" "java" "/usr/lib/jvm/jdk1.7.0/bin/java" 1
sudo update-alternatives --install "/usr/bin/javac" "javac" "/usr/lib/jvm/jdk1.7.0/bin/javac" 1
sudo update-alternatives --install "/usr/bin/javaws" "javaws" "/usr/lib/jvm/jdk1.7.0/bin/javaws" 1
sudo update-alternatives --config java (Only if you have an old OpenJdk installation)
```

2- Configuration of Java Environment variables in our system (Windows and Linux)

```
PATH = C:\Program Files\Java\jdk1.7.0\bin (Necessary to exec javac command)
JAVA_HOME = C:\Program Files\Java\jdk1.7.0 (Necessary to be found by Eclipse)
```

3 - Download and configuration of Apache Maven

Download Apache Maven and unzip it where you want:

[?http://apache.rediris.es/maven/maven-3/3.0.4/binaries/apache-maven-3.0.4-bin.zip](http://apache.rediris.es/maven/maven-3/3.0.4/binaries/apache-maven-3.0.4-bin.zip)

Configure environment variables:

```
MAVEN_HOME = C:\Program Files\apache-maven-3.0.4
PATH = C:\Program Files\Java\jdk1.7.0\bin;%MAVEN_HOME%\bin; (Necessary to exec mvn command)
```

4- Check if your configuration is OK

Go to **Start menu > cmd** Type **mvn-version** and you should see something like this:

```
Apache Maven 3.0.4 (r1232337; 2012-01-17 09:44:56+0100)
Maven home: C:\Program Files\apache-maven-3.0.4\bin\..
Java version: 1.7.0, vendor: Oracle Corporation
Java home: C:\Program Files\Java\jdk1.7.0\jre
Default locale: es_ES, platform encoding: Cp1252
OS name: "windows 7", version: "6.1", arch: "amd64", family: "windows"
```

5- Prepare Eclipse to use Maven (m2eclipse plugin)

Go to **Help > Eclipse Marketplace**, type 'Maven integration for Eclipse' and follow the installation wizard.