

Maven configuration

What is Maven?

Apache Maven is a software project management and comprehension tool. Based on the concept of a project object model (POM), Maven can manage a project's build, reporting and documentation from a central piece of information.

Guide

The following is the official Maven guide (source: <http://maven.apache.org/download.cgi>).

Installation Instructions

Maven is a Java tool, so you must have [Java](#) installed in order to proceed. More precisely, you need a Java Development Kit (JDK), the Java Runtime Environment (JRE) is not sufficient. Additional optional installation steps are listed after the platform specific instructions.

Windows 2000/XP

1. Unzip the distribution archive, i.e. *apache-maven-3.0.5-bin.zip* to the directory you wish to install Maven 3.0.5. These instructions assume you chose *C:\Program Files\Apache Software Foundation*. The subdirectory *apache-maven-3.0.5* will be created from the archive.
2. Add the `M2_HOME` environment variable by opening up the system properties (WinKey + Pause), selecting the "Advanced" tab, and the "Environment Variables" button, then adding the `M2_HOME` variable in the user variables with the value `C:\Program Files\Apache Software Foundation\apache-maven-3.0.5`. Be sure to omit any quotation marks around the path even if it contains spaces. **Note:** For Maven 2.0.9, also be sure that the `M2_HOME` doesn't have a `\` as last character.
3. In the same dialog, add the `M2` environment variable in the user variables with the value `%M2_HOME%\bin`.
4. **Optional:** In the same dialog, add the `MAVEN_OPTS` environment variable in the user variables to specify JVM properties, e.g. the value `-Xms256m -Xmx512m`. This environment variable can be used to supply extra options to Maven.
5. In the same dialog, update/create the `Path` environment variable in the user variables and prepend the value `%M2%` to add Maven available in the command line.
6. In the same dialog, make sure that `JAVA_HOME` exists in your user variables or in the system variables and it is set to the location of your JDK, e.g. `C:\Program Files\Java\jdk1.5.0_02` and that `%JAVA_HOME%\bin` is in your `Path` environment variable.
7. Open a *new* command prompt (Winkey + R then type `cmd`) and run `mvn --version` to verify that it is correctly installed.

Unix-based Operating Systems (Linux, Solaris and Mac OS X)

1. Extract the distribution archive, i.e. `apache-maven-3.0.5-bin.tar.gz` to the directory you wish to install Maven 3.0.5. These instructions assume you chose `/usr/local/apache-maven`. The subdirectory `apache-maven-3.0.5` will be created from the archive.
2. In a command terminal, add the `M2_HOME` environment variable, e.g. `export M2_HOME=/usr/local/apache-maven/apache-maven-3.0.5`.
3. Add the `M2` environment variable, e.g. `export M2=$M2_HOME/bin`.
4. **Optional:** Add the `MAVEN_OPTS` environment variable to specify JVM properties, e.g. `export MAVEN_OPTS="-Xms256m -Xmx512m"`. This environment variable can be used to supply extra options to Maven.
5. Add `M2` environment variable to your path, e.g. `export PATH=$M2:$PATH`.
6. Make sure that `JAVA_HOME` is set to the location of your JDK, e.g. `export JAVA_HOME=/usr/java/jdk1.5.0_02` and that `$JAVA_HOME/bin` is in your `PATH` environment variable.
7. Run `mvn --version` to verify that it is correctly installed.

System Requirements

JDK	1.5 or above (this is to execute Maven - it still allows you to build against 1.3 and prior JDK's)
Memory	No minimum requirement
Disk	No minimum requirement. Approximately 100MB will be used for your local repository, however this will vary depending on usage and can be removed and redownloaded at any time.
Operating System	No minimum requirement. On Windows, Windows NT and above or Cygwin is required for the startup scripts. Tested on Windows XP, Fedora Core and Mac OS X.