Installing Apache Maven on Windows

Follow the instructions below to set up Apache Maven.

Step 1. Check Java

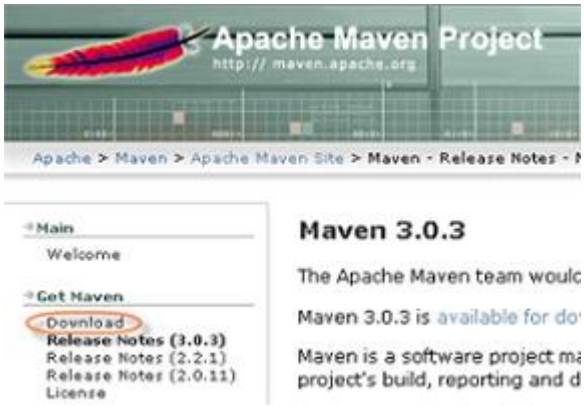
Make sure you have a JDK installed on your system. Refer to Apache Maven System Requirements for details.

Step 2. Download Apache Maven

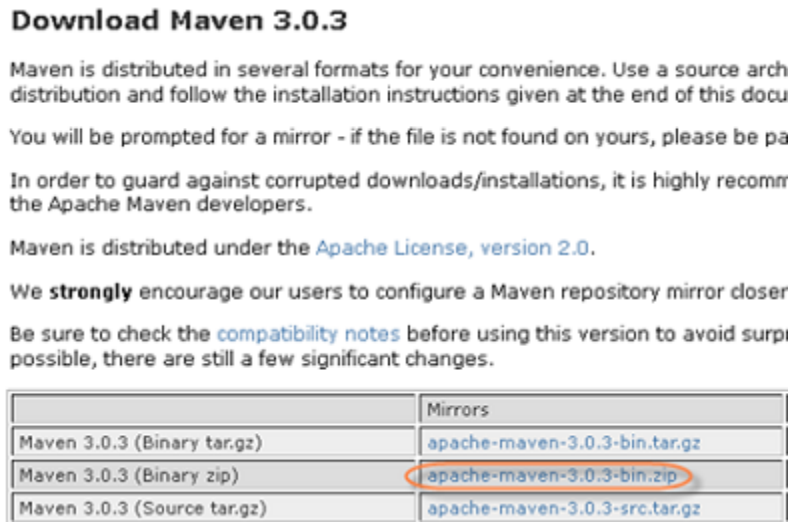
1. Open a Web browser and access the following URL:

```
http://maven.apache.org
```

2. Apache Maven home page opens. Click the "Download" link in the "Get Maven" section.

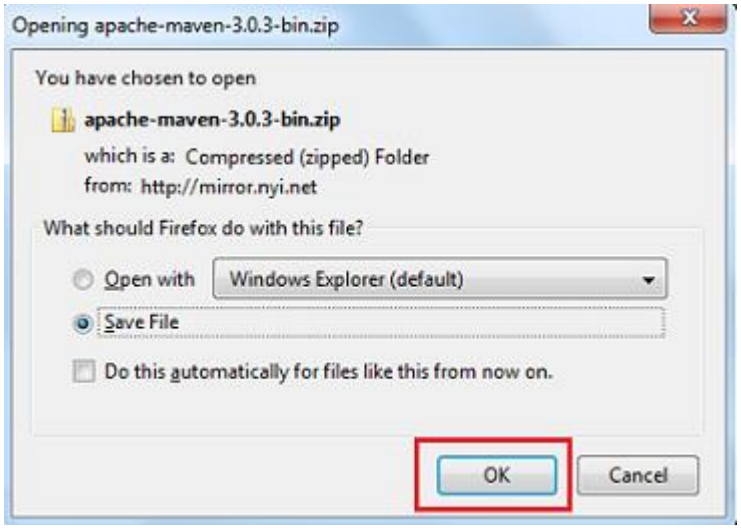


3. The link redirects to the storage page of different download pack versions. Choose the version suitable for Windows.



4. The link redirects to the page suggesting a mirror site for the download. Follow the link on the page.

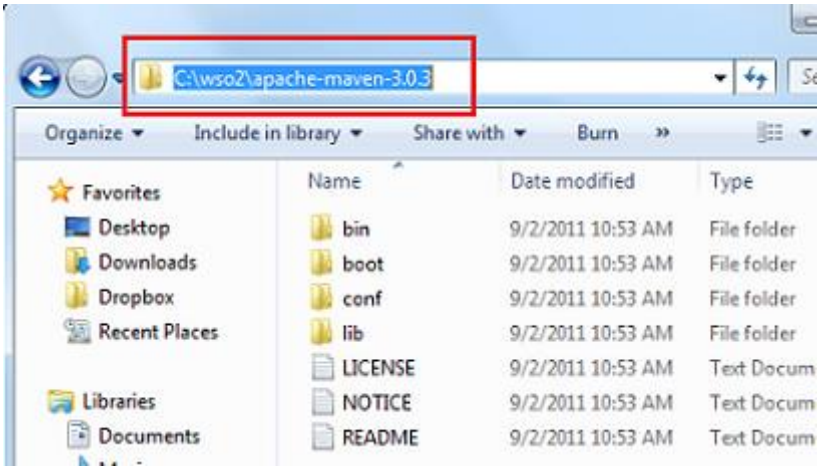
5. The download Save dialog box opens. Click "OK."



6. The download starts.

Step 3. Extract the Archive

After the download is complete, extract installation files to the user-defined folder. For example, `c:\wso2\apache-maven-3.0.3`.



Step 4. Set up M2_HOME

In order to run Apache Maven, it is necessary to set up `M2_HOME` environment variable, and add "bin" to `PATH` variable. The variable points to the directory where Apache Maven is installed on the computer.

Reference

Environment variables are global system variables accessible by all the processes running under the operating system.

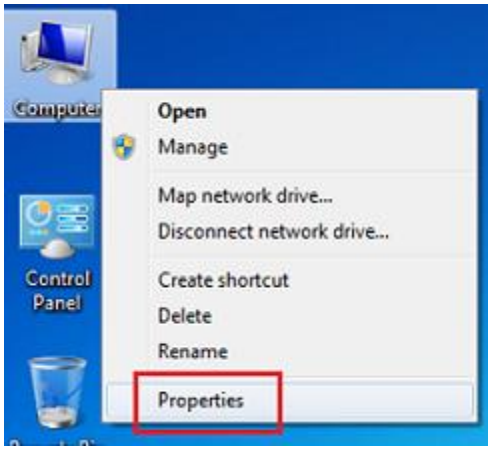
Locating the Apache Maven Installation Folder

In order to set the variable, it is necessary to know the Maven installation folder. Using a browser (e.g. Total Commander) open the user-defined directory to which Apache Maven archive was extracted (See Step 2). This is the path to Apache Maven installation folder.

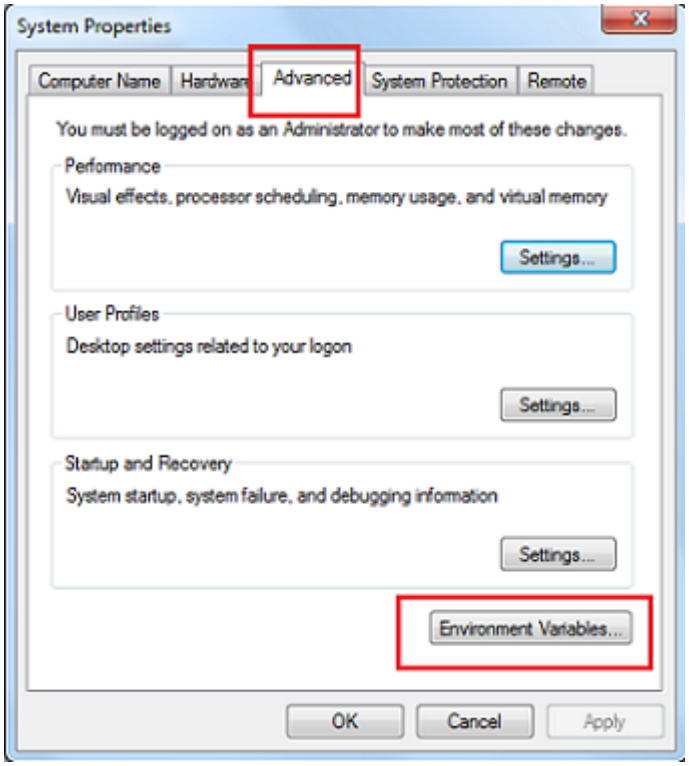
Setting M2_HOME

Follow the instructions below.

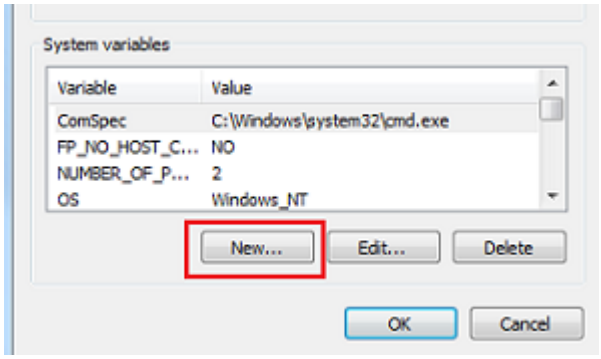
1. Right-click the "My Computer" icon on the desktop and select "Properties" from the pop-up menu.



2. In the "System Properties" window, go to the "Advanced" tab and click "Environment Variables".

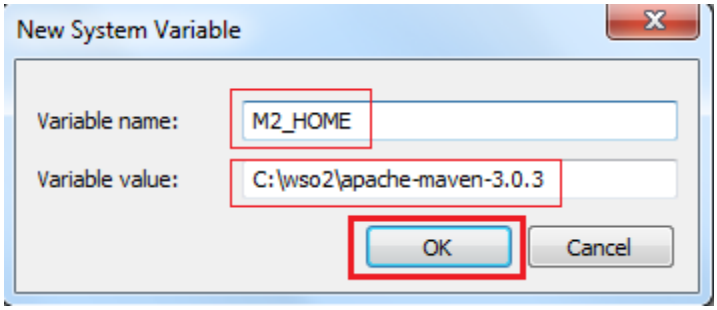


3. The "Environment variables" window opens. Click the "New" button under "System variables."

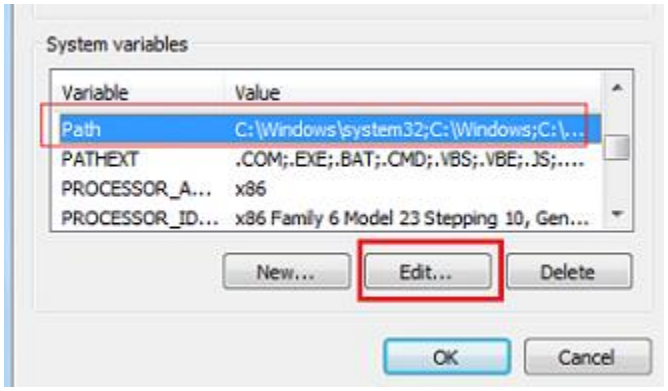


4. The "New system variable" input box opens. Type "variable name": M2_HOME, and "variable value": Maven installation directory.

For example, c:\wso2\apache-maven-3.0.3. Click "OK."



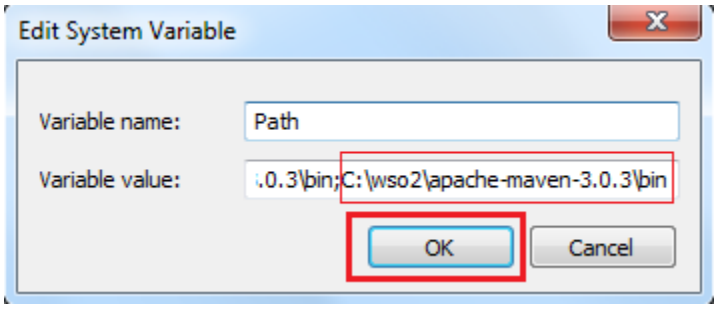
5. In the "System variables" field select "PATH" and click on the "Edit" button.



6. The "Edit system variable" dialog opens. Add "<M2_HOME>\bin" without quotes to Variable value, where <M2_HOME> is the Maven installation directory.

For example, c:\wso2\apache-maven-3.0.3\bin.

Click "OK."



7. Apache Maven set up is complete successfully.
Make sure that the system variable JAVA_HOME is set to the JDK location.

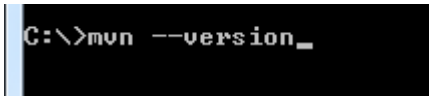
Step 5. Verify Apache Maven Installation

Follow the instructions below to verify that Apache Maven is set up correctly.

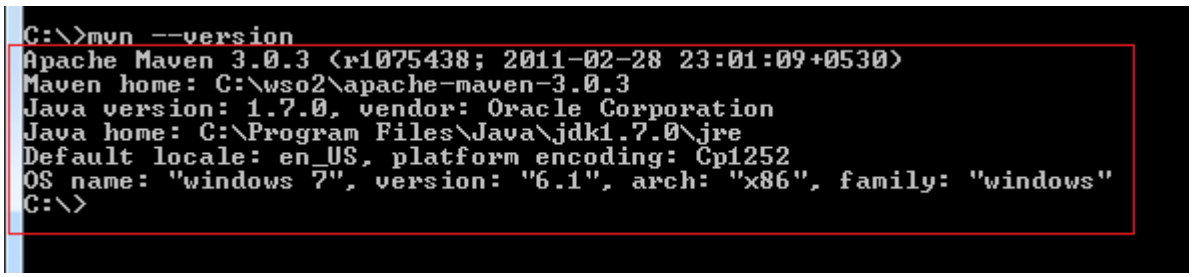
1. Open Windows command prompt (CMD). Click "Start" > "Run" and enter "cmd" without quotes and click "OK" to access CMD.

2. In the opened CMD window, type the following command and press <Enter>:

```
mvn --version
```



3. Information on current version of Apache Maven and M2_HOME location is displayed. For example,



***"System variables"* or *"User variables"*?**
If it is needed to set up variables only for the user currently logged in, JAVA_HOME should be set up in "User Variables" (the same way as in "System variables"). These changes will not affect any other users.

Installing Apache Maven on Unix Based Systems

The installation of Apache Maven is a simple process of extracting the archive and adding the `bin` folder with the `mvn` command to the `PATH`.

Detailed steps are:

- Ensure `JAVA_HOME` environment variable is set and points to your JDK installation
- Extract distribution archive in any directory

```
unzip apache-maven-3.6.1-bin.zip
```

or

```
tar xzvf apache-maven-3.6.1-bin.tar.gz
```

Alternatively use your preferred archive extraction tool.

- Add the `bin` directory of the created directory `apache-maven-3.6.1` to the `PATH` environment variable

- Confirm with `mvn -v` in a new shell. The result should look similar to

```
Apache Maven 3.6.1 (d66c9c0b3152b2e69ee9bac180bb8fcc8e6af555; 2019-04-04T21:00:29+02:00)

Maven home: /opt/apache-maven-3.6.1

Java version: 1.8.0_45, vendor: Oracle Corporation

Java home: /Library/Java/JavaVirtualMachines/jdk1.8.0_45.jdk/Contents/Home/jre

Default locale: en_US, platform encoding: UTF-8

OS name: "mac os x", version: "10.8.5", arch: "x86_64", family: "mac"
```

- Check environment variable value

```
echo $JAVA_HOME

/Library/Java/JavaVirtualMachines/jdk1.8.0_45.jdk/Contents/Home
```

- Adding to `PATH`

```
export PATH=/opt/apache-maven-3.6.1/bin:$PATH
```