In this article, you'll learn the process to install Maven on Windows and Ubuntu.

- Install Maven on Windows
- Install Maven on Ubuntu

Install Mayen on Windows

First, we need JDK (<u>Java</u> development kit) installed in our system, which is then followed by installing Maven on Windows.

Let's begin with opening the chrome browser and searching for "JDK 8 download." There will be a link to Oracle.

Navigating to that page, you'll find the JDK for different platforms and operating systems.

Install the Windows x64 version.



Then, as the login page appears on the screen, log in to your account. As this is being done, you'll see that the .exe file is being downloaded.

While <u>Java is being installed</u>, let's begin with the process to install Maven on Windows:

- Go back to your browser
- Search for "Maven download" or go straight to https://maven.apache.org/download.cgi
- Download using the Apache zip archive link

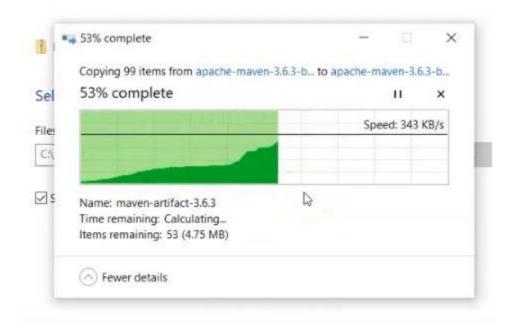
| | Link |
|-----------------------|-------------------------------|
| Binary tar.gz archive | apache-maven-3.6.3-bin.tar.gz |
| Binary zip archive | apache-maven-3.6.3-bin.zip |
| Source tar.gz archive | apache-maven-3.6.3-src.tar.gz |
| Source zip archive | apache-maven-3.6.3-src.zip |

Once both JDK and Apache Maven are downloaded, we'll open the directory where the Java executables are.

Install the complete JDK.



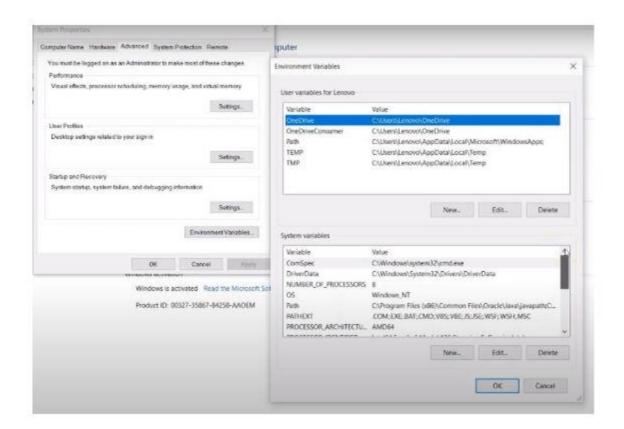
After installing the JDK, we need to go to the Maven directory and extract the files.



The file we get can be renamed and placed in the C drive, and that will be the Maven home path we'll use.

Then do the following:

- Go to the system properties
- In the system properties, go to the advanced system settings option
- In the dialog box that appears, go to the environment variables to set the path



The next step is to open the CMD prompt.

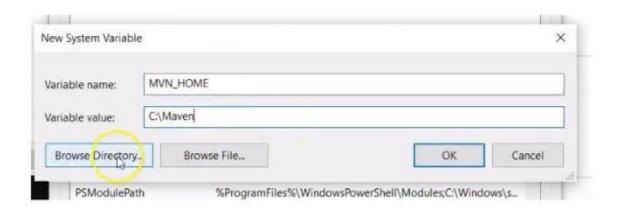
In the command prompt, type the command to check the Java version:

java -version

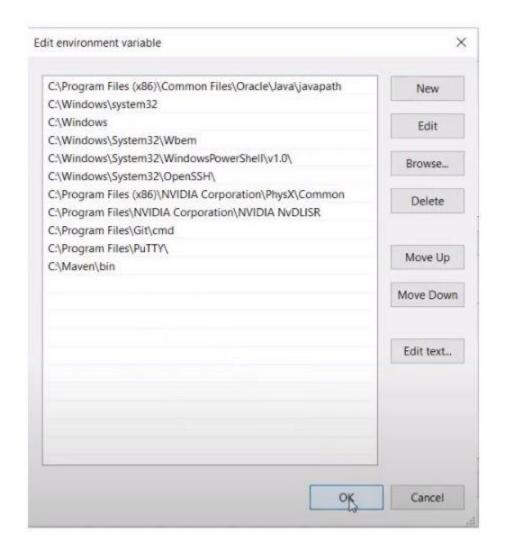
The version of Java appears on the screen.

Then come back to the dialog box and click on new, to set up a new environment variable.

In the name, enter MVN_HOME. In the variable value, paste the Maven directory location in the C drive.



Then, in the path variable, we have to add the bin directory.



Press OK on all the dialog boxes.

The Maven installation is done. To confirm that Maven is installed, go back to the command prompt window.

Check the Java version:

```
java -version
```

Followed by the Maven version:

```
mvn -version
```

Here, we can see both JDK and Maven installed on our system.

Install Maven on Ubuntu

In this process, we'll install both JDK and Maven on Ubuntu.

Open the terminal

- Log in to the root id to install packages
- After the above process is done, run the app update command
- Next, install the latest package of Java

install oracle -java14 -installer

```
rootSanujsharma48]ye:-f apt install oracle-javal4-installer
Reading package lists... Done
Building dependency free
Reading state Informatios... Done
The following additional packages will be installed:
    gsfonts gifonts xii oracle-javal4-set-default
Suggested packages:
    binfet-support visualve tif-backmuk| tif-unfents| tif-unfents.core tif-kochi-gothic| tif-sazanami-gothic tif-kochi-mincho| tif-sazanami-mincho
tif-argini uming
The following MNV packages will be installed:
    gsfonts gifonts-xii oracle-javal4-installer oracle-javal4-set-default
    Dupproded, 4 mewly installed, 0 to remove and 107 not upgraded.
    Meed to get 3,417 &B of archives.
    After this operation, 5,113 &B of additional disk space will be used.
    Dup you want to continue fif/e)
    Set: 1 http://azure.archive.ubuntu.com/ubuntu xemial/universe amd04 gsfonts-xii all 0.24 [7,314 B]

    Waiting for headers:
```

While this happens, let's download Maven.

- Go back to your browser
- Search for "Maven download" or go straight to https://maven.apache.org/download.cgi
- Go to the Binary tar.gz archive
- Copy the link of the Binary tar.gz archive



Let's go back to the terminal and check on the Java download.

After the installation is done, open a new terminal to install Maven.

In the new terminal, go to the opt directory

cd /opt

Then run the wget command along with the link copied above.

wget *link of tar.gz archive*

When the Maven tar file is downloaded, extract that file.

tar -xvzf *tar file name*

```
root@anujsharma401ya:/opt# tar -xvzf apache-maven-3.6.3-bin.tar.gz
```

After the extraction has finished, we can see the Apache Maven directory.

Now, rename the directory. To rename it, use the move command to go to the actual folder.

mv *apache-maven folder*

Now let's go to the Maven directory.

cd maven/

```
Apache-maves 3.6.3/llb/jcl-over-slf4) 1.7.29.jar

Apache-maves 3.6.3/llb/suppor file-3.3.4.jar

Apache-maves 3.6.3/llb/suppor file-3.3.4.jar

Apache-maves 3.6.3/llb/supor resolver-transport -mages 1.4.1.jar

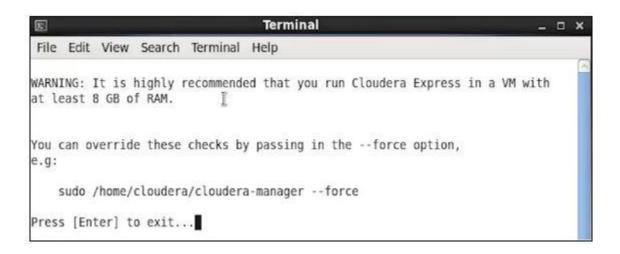
Apache-maves 3.6.3/llb/supor slf4) provider 3.6.3.jar

Apache-maves 3.6.3/llb/supor slf4)

Apache-maves 3.6.3/llb/supor slf4)
```

Now go back to terminal 1 and check the Java version.

java -version



Coming back to terminal 2:

```
cd/ etc/ profile.d/
    root@anujsharma40lya:/opt/maven#
    root@anujsharma401ya:/opt/maven# cd /etc/profile.d/
    root@anujsharma40lya:/etc/profile.d# ls -alrt
    total 52
     -rw-r--r-- 1 root root 1003 Dec 29 2015 cedilla-portuguese.sh
-rw-r--r-- 1 root root 1557 Apr 14 2016 Z97<sup>1</sup> byobu.sh
    -rw-r--r-- 1 root root 185 Apr 29 2016 gtk-accessibility.sh
-rw-r--r-- 1 root root 663 May 18 2016 bash completion.sh
-rw-r--r-- 1 root root 825 Aug 20 2019 apps-bin-path.sh
     -rwxr-xr-x 1 root root 3417 Oct 4 2019 299-cloud-locale-test.sh

-rwxr-xr-x 1 root root 873 Oct 4 2019 299-cloudinit-warnings.sh

-rwxr-xr-x 1 root root 268 Mar 18 09:25 jdk.csh

-rwxr-xr-x 1 root root 266 Mar 18 09:25 jdk.sh
                                                             2019 Z99-cloudinit-warnings.sh
    drwxr-xr-x 130 root root 12288 Jun 8 05:24 ...
    drwxr-xr-x 2 root root 4096 Jun 8 05:24
    root@anujsharma40lya:/etc/profile.d# cat jdk.sh
export J2SDKDIR=/usr/lib/jvm/java-14-oracle
    export J2REDIR=/usr/lib/jvm/java-14-oracle
    export PATH=$PATH:/usr/lib/jvm/java-14-oracle/bin:/usr/lib/jvm/java-14-oracle/db/bin
    export JAVA HOME=/usr/lib/jvm/java-14-oracle
    export DERBY_HOME=/usr/lib/jvm/java-14-oracle/db
    root@anujsharma401ya:/etc/profile.d#
```

We can see all the path variables here.

To add some more parameters, use the echo command so the path variables can be copied:

echo *path copied* /opt/maven/bin >>maven.sh export J2REDIR=/usr/lib/jvm/java-14-oracle
export PATH=SPATH:/usr/lib/jvm/java-14-oracle/bin:/usr/lib/jvm/java-14-oracle/db/bin
export JAVA_HOME=/usr/lib/jvm/java-14-oracle export DERBY_HOME=/usr/lib/jvm/java-14-oracle/db root@anujsharma401ya:/etc/profile.d# echo "export PATH=\$PATH: Now, export MVN_HOME here. echo "export MVN HOME=/opt/maven" >>maven.sh root@anujsharma4@iya:/etc/profile.d# echo "export PATH=SPATH:/opt/maven/bin/" >> maven.sh
root@anujsharma4@iya:/etc/profile.d# echo "export MVN_HOME=/opt/maven" >> maven.sh
root@anujsharma4@iya:/etc/profile.d# cat maven.sh
export PATH=/usr/local/abin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/opt/maven/bin/
export MVN_HOME=/opt/maven
root@anujsharma4@iya:/etc/profile.d# | In the end, we'll give executable permissions to this file. chmod +x maven.sh The last step is to run the source command:

After this command, we can run the Maven version command:

source /etc/profile.d/maven.sh

mvn -version

```
Terminal-root@anujsharma40lya:-

File Edit View Terminal Tabs Help

root@anujsharma40lya:-# source /etc/profile.d/maven.sh

root@anujsharma40lya:-# mvn -version

Apache Maven 3.6.3 (cecedd343002696d0abb50b32b54lb8a6ba2883f)

Maven home: /opt/maven

Java version: 1.8.0 252, vendor: Private Build, runtime: /usr/lib/jvm/java-8-openjdk-amd64/jre

Default locale: en_US, platform encoding: UTF-8

OS name: "linux", version: "4.15.0-1083-azure", arch: "amd64", family: "unix"

root@anujsharma40lya:-#
```

Here, we can check the version of Maven, and this is how we can configure Maven on our Ubuntu virtual machine.