

Maven Labs

Installing Microsoft Open JDK on Windows

<https://www.microsoft.com/openjdk>

Open PowerShell as admin:

```
Unset  
winget search Microsoft.OpenJDK  
winget install Microsoft.OpenJDK.17
```

If you get a winget not found error, install from here:

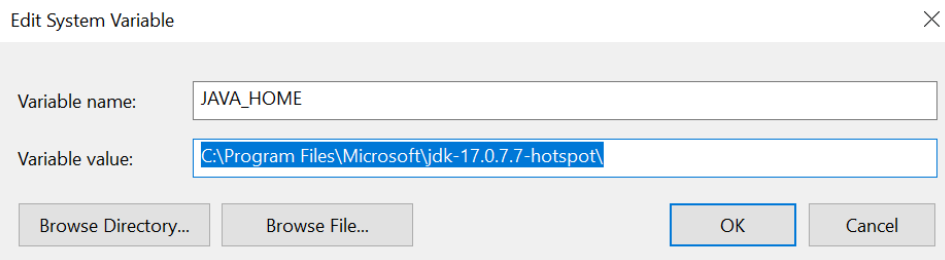
<https://apps.microsoft.com/store/detail/app-installer/9NBLGGH4NNS1?hl=en-in&gl=in&rtc=1>

Find Java version:

```
Unset  
PS C:\Users\ragha> java -version  
openjdk version "17.0.7" 2023-04-18 LTS  
OpenJDK Runtime Environment Microsoft-7626293 (build 17.0.7+7-LTS)  
OpenJDK 64-Bit Server VM Microsoft-7626293 (build 17.0.7+7-LTS, mixed  
mode, sharing)
```

Verify if JAVA_HOME is set:

```
Unset  
$env:JAVA_HOME
```



The screenshot shows a Windows dialog box titled "Edit System Variable". It has a close button (X) in the top right corner. Inside the dialog, there are two input fields: "Variable name:" with the text "JAVA_HOME" and "Variable value:" with the text "C:\Program Files\Microsoft\jdk-17.0.7-hotspot\". Below these fields are three buttons: "Browse Directory...", "Browse File...", and "OK". The "OK" button is highlighted with a blue border. To the right of the "OK" button is a "Cancel" button.

Installing Open JDK on Ubuntu

Unset

```
sudo apt update && sudo apt upgrade
apt-cache search openjdk | grep openjdk-17
sudo apt install openjdk-17-jdk
java --version
```

Verify if JAVA_HOME is set

Unset

```
echo $JAVA_HOME
```

If you dont get any answer, then it is not set.

Set JAVA_HOME:

- Find where Java is installed. Use any one of these methods:

Unset

```
update-java-alternatives -l

java-1.17.0-openjdk-amd64      1711
/usr/lib/jvm/java-1.17.0-openjdk-amd64
```

- In my case the path = /usr/lib/jvm/java-17-openjdk-amd64/bin/java

Now set the JAVA_HOME path for all users in the system:

Unset

```
nano /etc/profile
export JAVA_HOME=/usr/lib/jvm/java-1.17.0-openjdk-amd64
export PATH=$JAVA_HOME/bin:$PATH

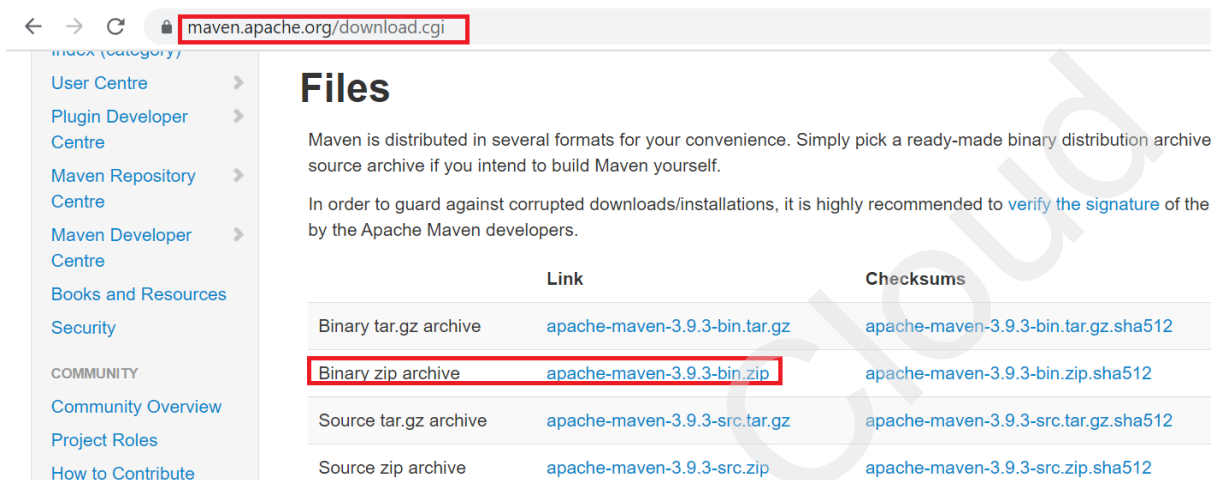
source /etc/profile

-version
/usr/lib/jvm/java-1.17.0-openjdk-amd64
```

Installing Maven on Windows

Download the latest maven:

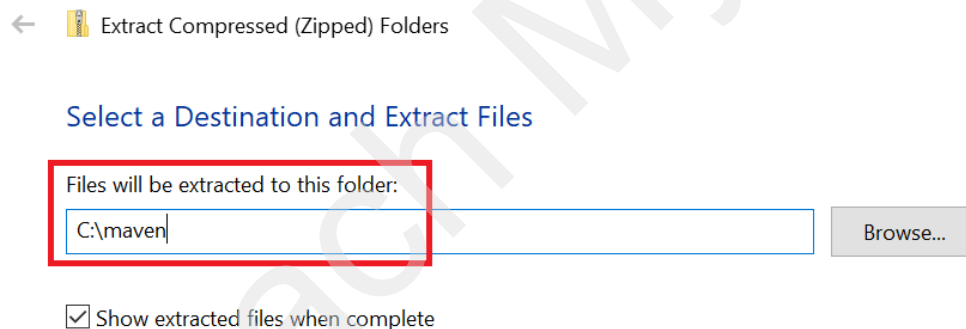
<https://maven.apache.org/download.cgi>



The screenshot shows the Maven download page. The browser address bar highlights `maven.apache.org/download.cgi`. On the left is a navigation menu with links like 'User Centre', 'Plugin Developer Centre', 'Maven Repository Centre', 'Maven Developer Centre', 'Books and Resources', 'Security', 'COMMUNITY', 'Community Overview', 'Project Roles', and 'How to Contribute'. The main content area is titled 'Files' and contains text explaining that Maven is distributed in several formats and that it's recommended to verify the signature. Below this is a table with three columns: 'Link', 'Checksums', and an unlabeled column for the archive type.

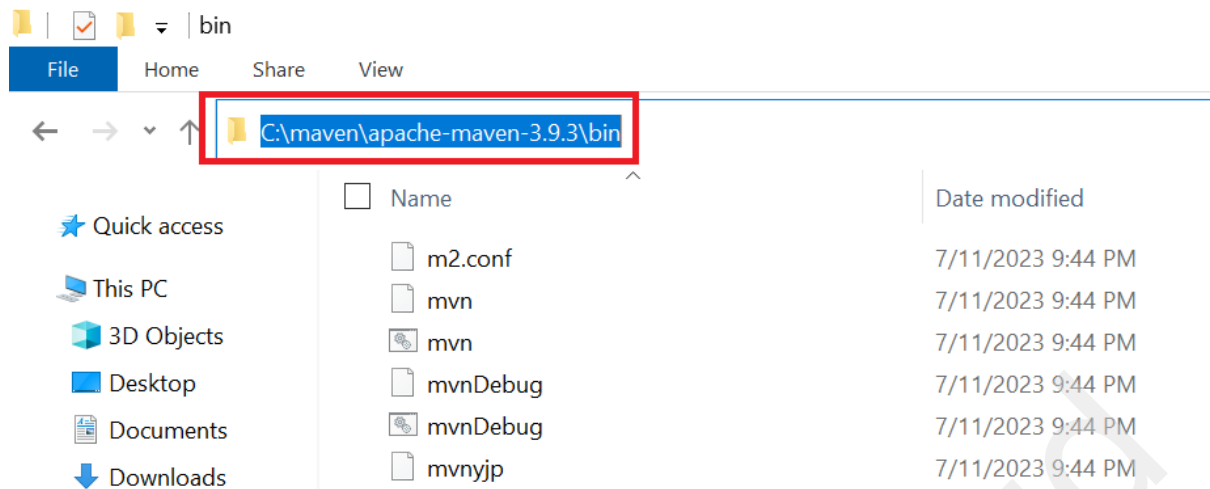
	Link	Checksums
Binary tar.gz archive	apache-maven-3.9.3-bin.tar.gz	apache-maven-3.9.3-bin.tar.gz.sha512
Binary zip archive	apache-maven-3.9.3-bin.zip	apache-maven-3.9.3-bin.zip.sha512
Source tar.gz archive	apache-maven-3.9.3-src.tar.gz	apache-maven-3.9.3-src.tar.gz.sha512
Source zip archive	apache-maven-3.9.3-src.zip	apache-maven-3.9.3-src.zip.sha512

Extract to **C:\maven**

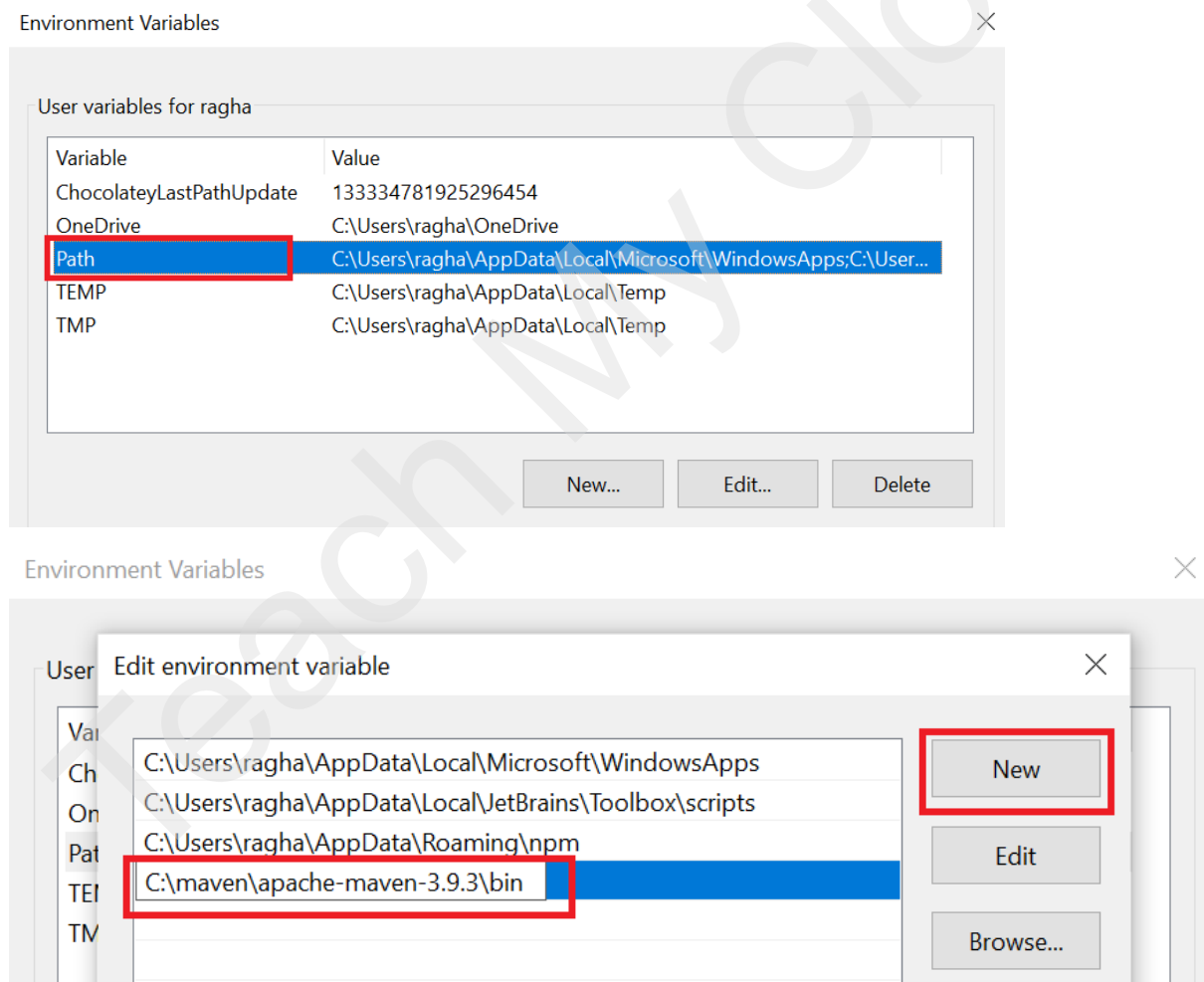


The screenshot shows the 'Extract Compressed (Zipped) Folders' dialog box. The title bar says 'Extract Compressed (Zipped) Folders'. Below the title bar is the text 'Select a Destination and Extract Files'. A text box labeled 'Files will be extracted to this folder:' contains the path `C:\maven`. To the right of the text box is a 'Browse...' button. Below the text box is a checkbox labeled 'Show extracted files when complete' which is checked.

Note the **bin** folder path



Add the **bin** folder path to Environment variable:



Open a New PowerShell run as administrator window and verify maven version:

Unset

`mvn -v`

Apache Maven 3.9.3 (21122926829f1ead511c958d89bd2f672198ae9f)

Maven home: C:\maven\apache-maven-3.9.3

Java version: 17.0.7, vendor: Microsoft, runtime: C:\Program Files\Microsoft\jdk-17.0.7-hotspot

Default locale: en_US, platform encoding: Cp1252

OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"

Maven is now set on Windows for our use.

Installing Maven on Ubuntu

Download the latest Maven:

Files

Maven is distributed in several formats for your convenience. Simply pick a ready-made binary distribution archive if you intend to build Maven yourself.

In order to guard against corrupted downloads/installations, it is highly recommended to [verify the signature](#) of the archive by the Apache Maven developers.

	Link	Checksums
Binary tar.gz archive	apache-maven-3.9.3-bin.tar.gz	apache-maven-3.9.3-bin.tar.gz.sha512
Binary zip archive	apache-maven-3.9.3-bin.zip	apache-maven-3.9.3-bin.zip.sha512
Source tar.gz archive	apache-maven-3.9.3-src.tar.gz	apache-maven-3.9.3-src.tar.gz.sha512
Source zip archive	apache-maven-3.9.3-src.zip	apache-maven-3.9.3-src.zip.sha512

Unset

`wget`
`https://d1cdn.apache.org/maven/maven-3/3.9.4/binaries/apache-maven-3.9.4-bin.tar.gz`
`sudo tar xf apache-maven-*.tar.gz -C /opt`

Create a symbolic link called *maven* leading to the Maven installation directory:

Unset

```
sudo ln -s /opt/apache-maven-3.9.4 /opt/maven
```

Set Up Environment Variables:

Unset

```
sudo nano /etc/profile.d/maven.sh
```

```
export M2_HOME=/opt/maven
export MAVEN_HOME=/opt/maven
export PATH=${M2_HOME}/bin:${PATH}
```

Execute this script:

Unset

```
sudo chmod +x /etc/profile.d/maven.sh
```

```
source /etc/profile.d/maven.sh
```

Find maven version

```
mvn -version
```

```
Apache Maven 3.9.3 (21122926829f1ead511c958d89bd2f672198ae9f)
```

```
Maven home: /opt/maven
```

```
Java version: 17.0.7, vendor: Private Build, runtime:
```

```
/usr/lib/jvm/java-17-openjdk-amd64
```

```
Default locale: en, platform encoding: UTF-8
```

```
OS name: "linux", version: "5.15.0-1041-azure", arch: "amd64",
```

```
family: "unix"
```