

# How to Install Maven on Windows

Apache Maven is a build-automation tool designed to provide a comprehensive and easy-to-use way of developing Java applications. It uses a POM (Project Object Model) approach to create a **standardized development environment** for multiple teams.

**In this tutorial, we will show you how to install Apache Maven on a system running Windows.**

## Prerequisites

- A system running Windows.
- A working Internet connection.
- Access to an account with administrator privileges.
- Access to the command prompt.
- A copy of Java installed and ready to use, with the JAVA\_HOME environment variable set up (learn how to set up the JAVA\_HOME environment variable in our **guide to installing Java on Windows**).

## How to Install Maven on Windows

Follow the steps outlined below to install Apache Maven on Windows.

### Step 1: Download Maven Zip File and Extract

1. Visit the **Maven download page** and download the version of Maven you want to install. The *Files* section contains the archives of the latest version. Access earlier versions using the archives link in the *Previous Releases* section.
2. Click on the appropriate link to download the binary zip archive of the latest version of Maven. As of the time of writing this tutorial, that is version 3.8.4.

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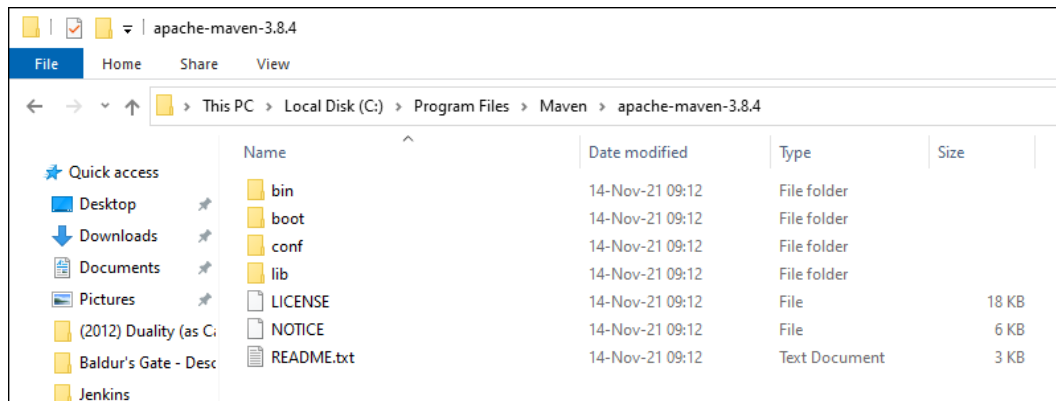
Files

Maven is distributed in several formats for your convenience. Simply pick a ready-made binary distribution archive and follow the [installation instructions](#). Use a source 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 release bundles against the public [KEYS](#) used by the Apache Maven developers.

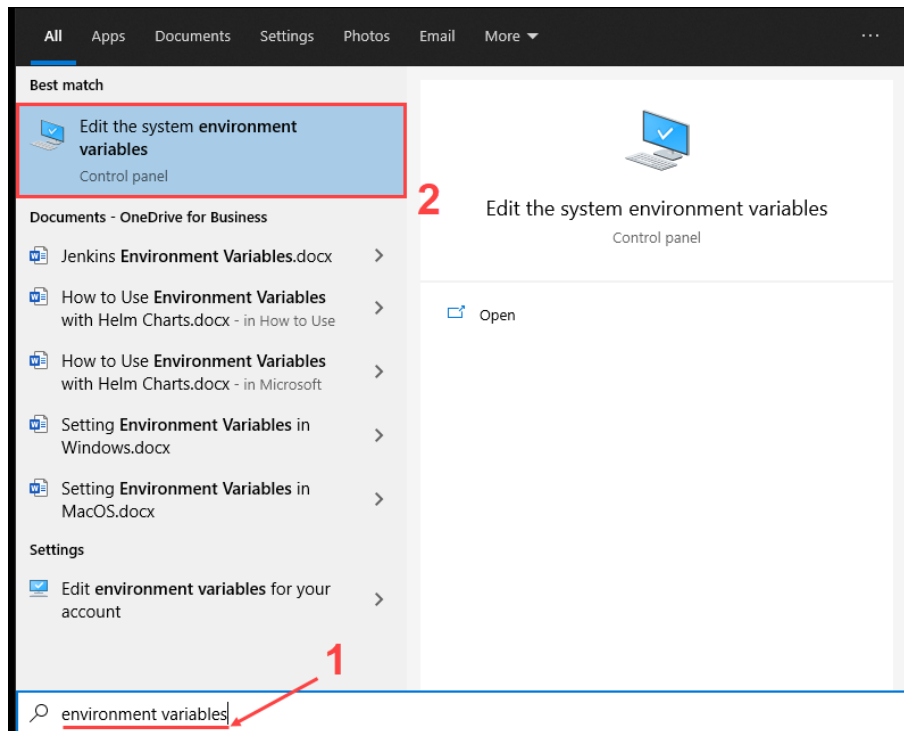
	Link	Checksums	Signature
Binary tar.gz archive	<a href="#">apache-maven-3.8.4-bin.tar.gz</a>	<a href="#">apache-maven-3.8.4-bin.tar.gz.sha512</a>	<a href="#">apache-maven-3.8.4-bin.tar.gz.asc</a>
Binary zip archive	<a href="#">apache-maven-3.8.4-bin.zip</a>	<a href="#">apache-maven-3.8.4-bin.zip.sha512</a>	<a href="#">apache-maven-3.8.4-bin.zip.asc</a>
Source tar.gz archive	<a href="#">apache-maven-3.8.4-src.tar.gz</a>	<a href="#">apache-maven-3.8.4-src.tar.gz.sha512</a>	<a href="#">apache-maven-3.8.4-src.tar.gz.asc</a>
Source zip archive	<a href="#">apache-maven-3.8.4-src.zip</a>	<a href="#">apache-maven-3.8.4-src.zip.sha512</a>	<a href="#">apache-maven-3.8.4-src.zip.asc</a>

3. Since there is no installation process, extract the Maven archive to a directory of your choice once the download is complete. For this tutorial, we are using *C:\Program Files\Maven\apache-maven-3.8.4*.

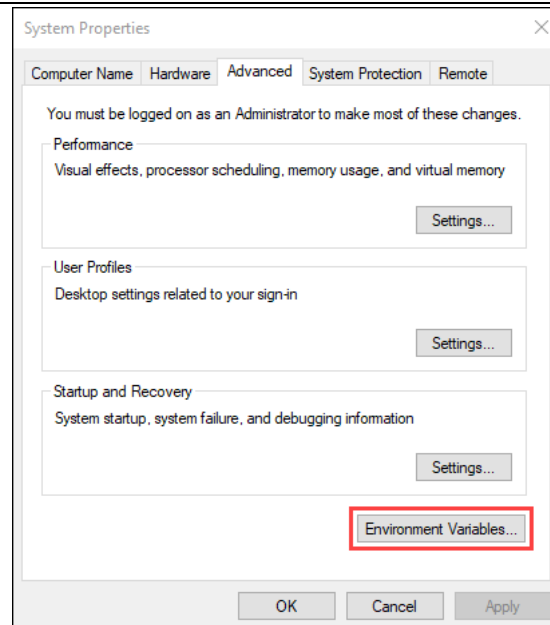


## Step 2: Add MAVEN\_HOME System Variable

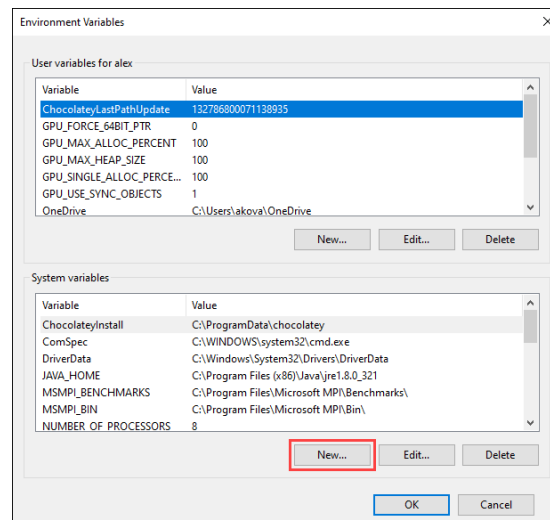
1. Open the Start menu and search for environment variables.
2. Click the **Edit the system environment variables** result.



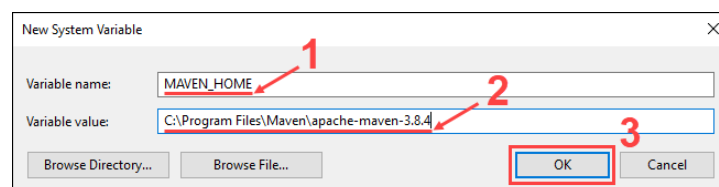
3. Under the *Advanced tab* in the *System Properties* window, click **Environment Variables**.



4. Click the **New** button under the *System variables* section to add a new system environment variable.

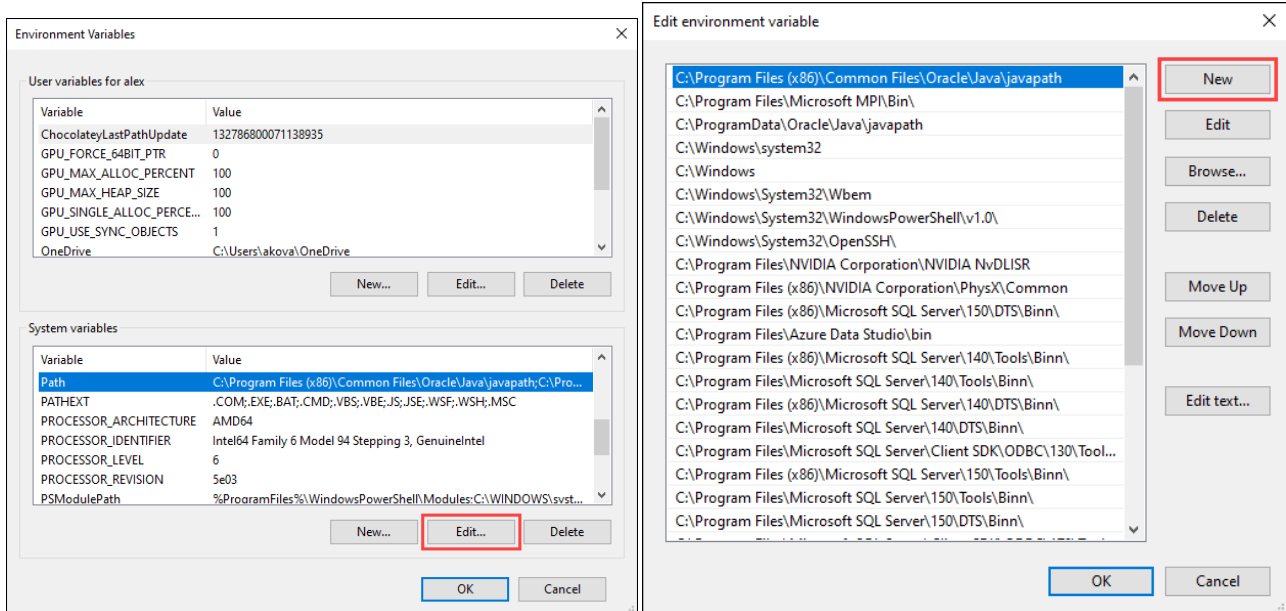


5. Enter **MAVEN\_HOME** as the variable name and the path to the Maven directory as the variable value. Click **OK** to save the new system variable.



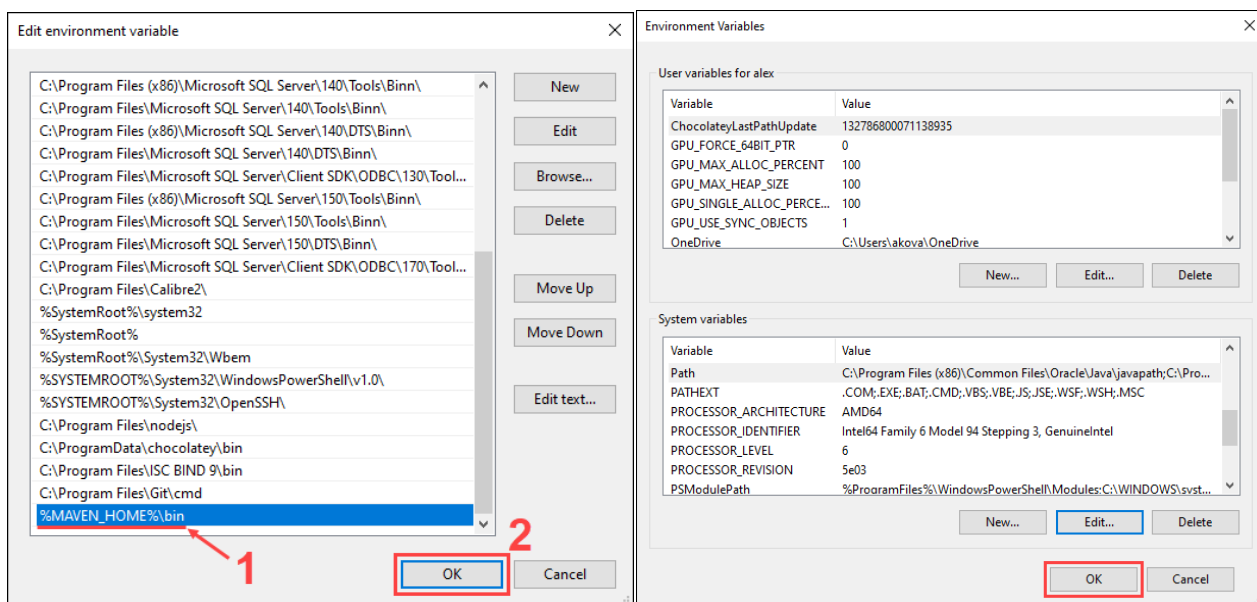
## Step 3: Add MAVEN\_HOME Directory in PATH Variable

1. Select the **Path** variable under the *System variables* section in the *Environment Variables* window. Click the **Edit** button to edit the variable.



2. Click the **New** button in the *Edit environment variable* window.

3. Enter `%MAVEN_HOME%\bin` in the new field. Click **OK** to save changes to the **Path** variable.



**Note:** Not adding the path to the Maven home directory to the **Path** variable causes the `'mvn'` is not recognized as an internal or external command, operable program or batch file error when using the `mvn` command.

4. Click **OK** in the *Environment Variables* window to save the changes to the system variables.

## Step 4: Verify Maven Installation

In the command prompt, use the following command to verify the installation by checking the current version of Maven:

```
mvn -version
```

```
Microsoft Windows [Version 10.0.19044.1526]
(c) Microsoft Corporation. All rights reserved.

C:\Users\akova>mvn -version
Apache Maven 3.8.4 (9b656c72d54e5bacbed989b64718c159fe39b537)
Maven home: C:\Program Files\Maven\apache-maven-3.8.4
Java version: 1.8.0_321, vendor: Oracle Corporation, runtime: C:\Program Files (x86)\Java\jre1.8.0_321
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "x86", family: "windows"

C:\Users\akova>
```

## Conclusion

After reading this tutorial, you should have a copy of Maven installed and ready to use on your Windows system.