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**How to Install Apache Maven on Ubuntu 20.04**

Apache Maven is an open-source project management and comprehension tool used primarily for Java projects. Maven uses a Project Object Model (POM), which is essentially an XML file containing information about the project, configuration details, the project’s dependencies, and more.

In this tutorial, we will show you two different ways to install Apache Maven on Ubuntu 20.04.

The official Ubuntu repositories contain Maven packages that can be installed with the apt package manager. This is the easiest way to install Maven on Ubuntu. However, the version included in the repositories may lag behind the latest version of Maven.

To install the latest version of Maven, follow the instructions provided in the second part of this article that shows how to download the binary distribution archive from their official website.

Choose the installation method that is most appropriate for your setup and environment.

**Prerequisites**

The instructions assume that you are logged in as root or [user with sudo privileges](https://linuxize.com/post/how-to-create-a-sudo-user-on-ubuntu/) .

**Installing Apache Maven on Ubuntu 20.04 with apt**

Installing Maven on Ubuntu using apt is a simple, straightforward process.

Update the package index and install Maven by entering the following commands:

**sudo apt updatesudo apt install mavenCopyCopy**

To verify the installation, run mvn -version:

**mvn -versionCopy**

The output should look something like this:

Apache Maven 3.6.3

Maven home: /usr/share/maven

Java version: 11.0.7, vendor: Ubuntu, runtime: /usr/lib/jvm/java-11-openjdk-amd64

Default locale: en\_US, platform encoding: UTF-8

OS name: "linux", version: "5.4.0-26-generic", arch: "amd64", family: "unix"

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That’s it. Maven is now installed on your system, and you can start using it.

**Installing the Latest Release of Apache Maven**

In this section, we’ll provide a step by step instructions about how to download and install the latest Apache Maven version on Ubuntu 20.04.

**1. Install OpenJDK**

Maven 3.3+ requires JDK 1.7 or above to be installed.

[Install OpenJDK 11](https://linuxize.com/post/install-java-on-ubuntu-20-04/) , by typing:

**sudo apt updatesudo apt install default-jdkCopyCopy**

Verify the installation by running the following command:

**java -versionCopy**

The output should look something like this:

openjdk version "11.0.7" 2020-04-14

OpenJDK Runtime Environment (build 11.0.7+10-post-Ubuntu-3ubuntu1)

OpenJDK 64-Bit Server VM (build 11.0.7+10-post-Ubuntu-3ubuntu1, mixed mode, sharing)

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**2. Downloading Apache Maven**

At the time of writing this article, the latest version of Apache Maven is 3.6.3. Before continuing with the next step, visit the [Maven download page](https://maven.apache.org/download.cgi) to see if a newer version is available.

Download the Apache Maven in the /tmp directory:

**wget https://www-us.apache.org/dist/maven/maven-3/3.6.3/binaries/apache-maven-3.6.3-bin.tar.gz -P /tmp**

Once the download is completed, [extract the archive](https://linuxize.com/post/how-to-create-and-extract-archives-using-the-tar-command-in-linux/) in the /opt directory:

**sudo tar xf /tmp/apache-maven-\*.tar.gz -C /opt**

To have more control over Maven versions and updates, we will [create a symbolic link](https://linuxize.com/post/how-to-create-symbolic-links-in-linux-using-the-ln-command/) maven that will point to the Maven installation directory:

**sudo ln -s /opt/apache-maven-3.6.3 /opt/maven**

When a new version is released, you can upgrade your Maven installation, by unpacking the newer version and change the [symlink](https://linuxize.com/post/how-to-create-symbolic-links-in-linux-using-the-ln-command/) to point to it.

**3. Setup environment variables**

Next, we’ll need to set up the environment variables. To do so, open your [text editor](https://linuxize.com/post/how-to-install-sublime-text-3-on-ubuntu-18-04/) and create a new file named mavenenv.sh in the /etc/profile.d/ directory.

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

Paste the following code:

/etc/profile.d/maven.sh

export JAVA\_HOME=/usr/lib/jvm/default-java

export M2\_HOME=/opt/maven

export MAVEN\_HOME=/opt/maven

export PATH=*${*M2\_HOME*}*/bin:*${*PATH*}*

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Save and close the file. This script will be sourced at shell startup.

Make the script executable with [chmod](https://linuxize.com/post/chmod-command-in-linux/) :

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

Finally, load the environment variables using the [source](https://linuxize.com/post/bash-source-command/) command:

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

**4. Verify the installation**

To verify that Maven is installed, use the mvn -version command which will print the Maven version:

mvn -version

You should see something like the following:

Maven home: /opt/maven

Java version: 11.0.7, vendor: Ubuntu, runtime: /usr/lib/jvm/java-11-openjdk-amd64

Default locale: en\_US, platform encoding: UTF-8

OS name: "linux", version: "5.4.0-26-generic", arch: "amd64", family: "unix"

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That’s it. The latest version of Maven is now installed on your Ubuntu system.

**Conclusion**

We have shown you how to install Apache Maven on Ubuntu 20.04. You should now visit the official [Apache Maven Documentation](https://maven.apache.org/guides/index.html) page and learn how to get started with Maven.