How to Install Maven on Ubuntu

By Marko Aleksic Published: December 19, 2025

Topics: Maven, Ubuntu

Apache Maven is an **open-source** project management tool primarily used to develop **Java** applications. It uses a POM (Project Object Model) approach, storing project, configuration, and **dependency** information in an XML **file**.

This tutorial explains how to install Maven on Ubuntu using the official repository or the installation file on the Maven website.

Prerequisites

- A system running **Ubuntu**.
- **Command-line** access to the system.
- A user with **administrative privileges**.

Install Maven on Ubuntu with APT

The **apt package manager** is a straightforward way to install Maven on Ubuntu. However, the user is limited to the Maven version currently available in the repository.

Follow these steps to install Maven with APT:

1. Update the local package repository index:

```
sudo apt update
```
Copy

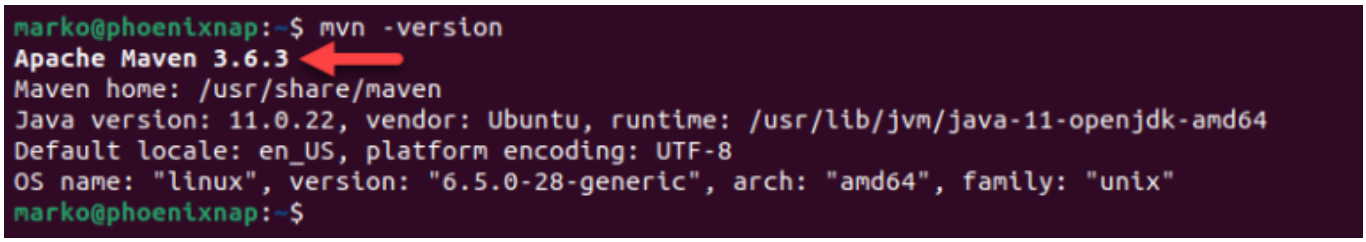
2. Install Maven from the official Ubuntu repository:

```
sudo apt install maven -y
```
Copy

3. Check the current Maven version to verify the installation:

```
mvn -version
```
Copy

If successful, the output shows the **program** version.



Download and Install Maven's Recent Version on Ubuntu

Installing Maven by downloading the installation file from the official website is more complex than using the `apt` command, but it enables users to install the latest available version. Follow the steps below to manually install Maven.

Step 1: Install OpenJDK

OpenJDK is an open-source Java implementation that is a Maven dependency on Ubuntu. Proceed with the following steps to install OpenJDK on the system:

1. Update the system's package repository index:

```
sudo apt update
```
Copy

2. **Install the latest OpenJDK version** by running:

```
sudo apt install default-jdk -y
```

Copy

3. Verify the installation by checking the current OpenJDK version:

```
java -version
```

Copy

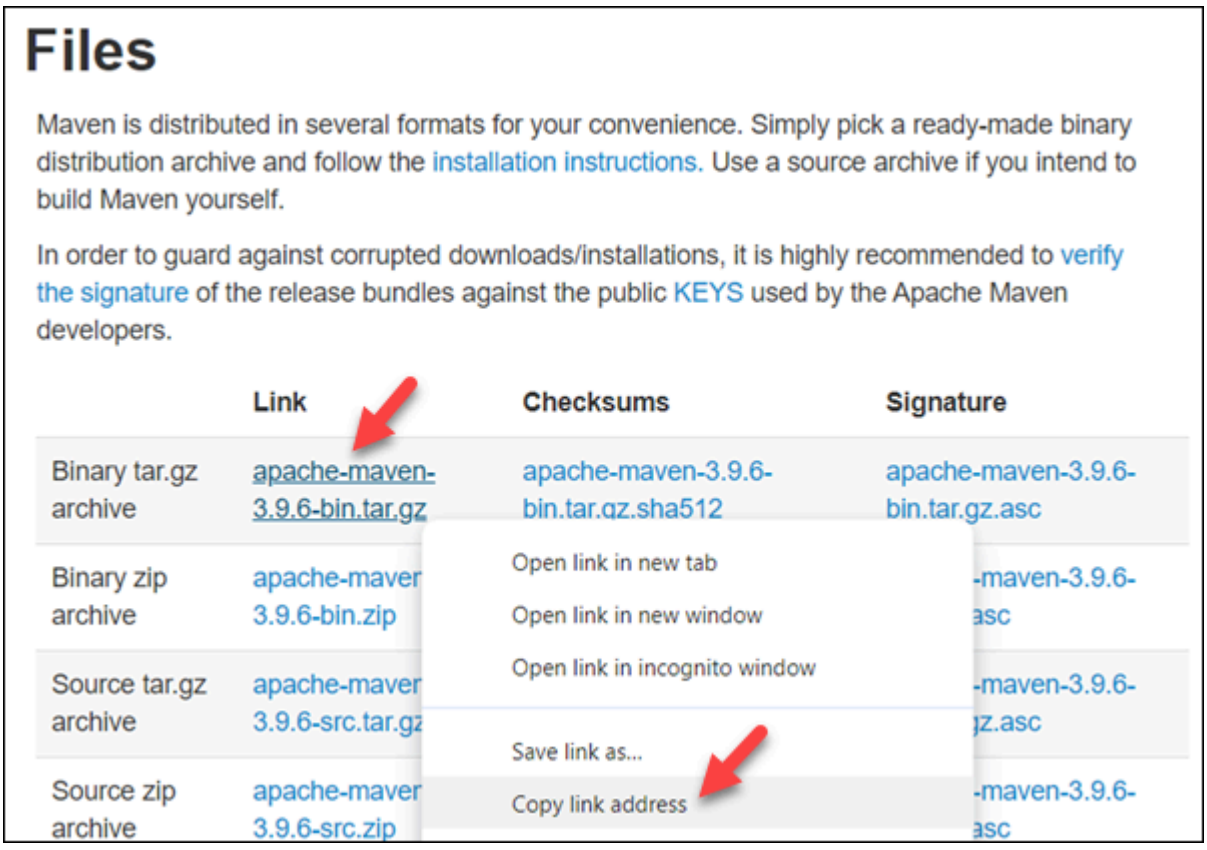
```
marko@phoenixnap:~$ java -version
openjdk version "11.0.22" 2024-01-16
OpenJDK Runtime Environment (build 11.0.22+7-post-Ubuntu-0ubuntu222.04.1)
OpenJDK 64-Bit Server VM (build 11.0.22+7-post-Ubuntu-0ubuntu222.04.1, mixed mode, shari
ng)
marko@phoenixnap:~$
```

Step 2: Download and Install Maven

The latest Maven version is listed in the *Files* section of the official website. Earlier versions are available in the *Previous Releases* section. Follow the procedure below to download and install Maven on an Ubuntu system:

1. Visit the **Maven download page**.

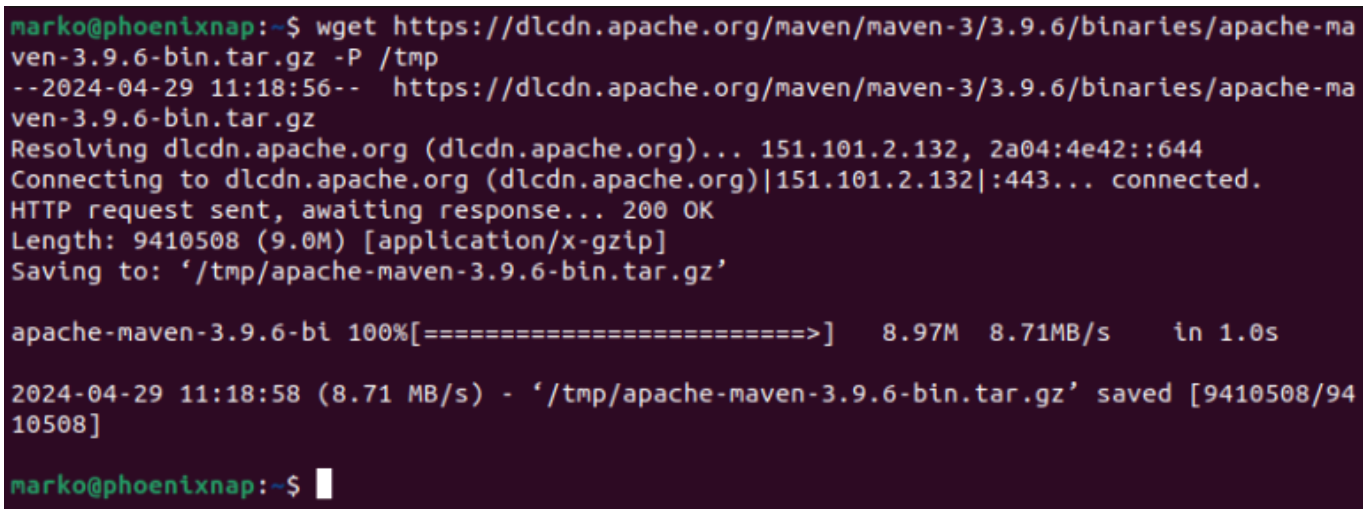
2. Right-click the version of Maven you want to install and copy the link.



3. Download the Maven installation file to the */tmp* **directory** using the **wget command**. The syntax is:

```
wget [link] -P /tmp
```
Copy

Replace **[link]** with the link to the Maven version you copied in the previous step.



4. Once the download is complete, **extract the installation file** to the */opt* directory:

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

5. Create a **symbolic link** leading to the Maven installation directory:

```
sudo ln -s /opt/apache-maven-[version] /opt/maven
```
Copy

Replace **[version]** with the Maven version you downloaded. For example:

```
sudo ln -s /opt/apache-maven-3.9.6 /opt/maven
```
Copy

Step 3: Set Up Environment Variables

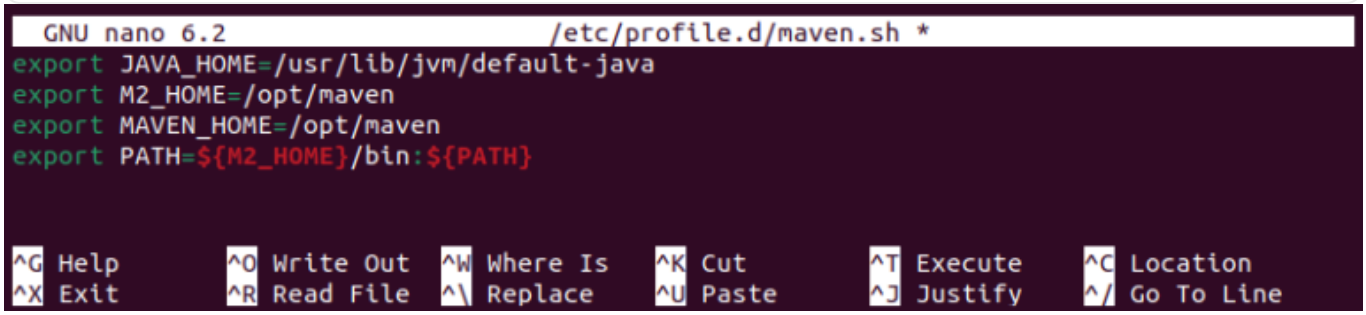
1. Use a **text editor** like **Nano** to create and open the *maven.sh* **script** file in the */etc/profile.d/* directory:

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

2. Add the following lines to the *maven.sh* file:

```
export JAVA_HOME=/usr/lib/jvm/default-java
export M2_HOME=/opt/maven
```
Copy

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



Save the file and exit.

3. Use the **chmod command** to make the *maven.sh* file executable:

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

Copy

4. Execute the *maven.sh* script file with the **source command** to set up the new environment variables:

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

Copy

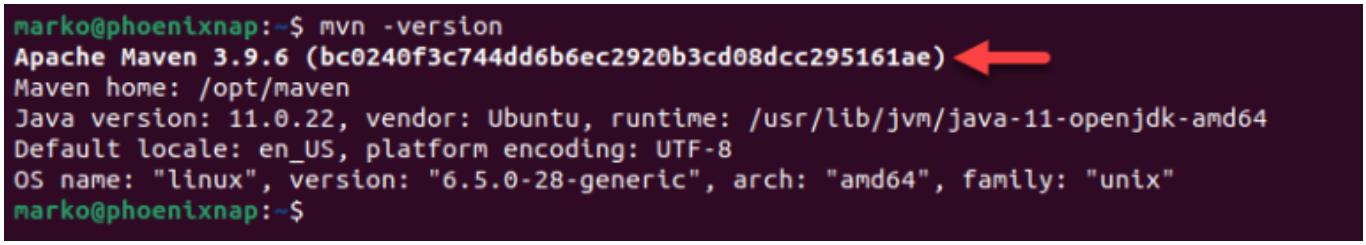
Step 4: Verify Maven Installation

Check the current version of Maven to verify the installation:

```
mvn -version
```

Copy

The example output below shows the **3.9.6** version of Maven installed on the system.



Conclusion

After following this tutorial, you should have Maven installed and ready to use on your Ubuntu system. The article explained the steps for installing Maven via the official Ubuntu APT repository and the official website.

If you want to try Maven in a different environment, check out our guides for **installing Maven on Debian** and **installing Maven on Windows**.

Was this article helpful? Yes No

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