**Installing JDK on Linux/Ubuntu**

Generally, we use apt package manager to install anything in Ubuntu. But, it doesn’t have the latest JDK packages. The current version is Java 13 but the command apt list -a | grep openjdk shows only available OpenJDK versions are 8 and 11.

So, we will install JDK using binaries and setting some required [environment variables](https://www.journaldev.com/30868/linux-environment-variables).

**Step 1: Download the JDK Binaries**

Go to the URL: <https://jdk.java.net/13/>

Copy the download link for Linux/x64 build. Then use the below command to download and extract it.

$ wget https://download.java.net/java/GA/jdk13.0.1/cec27d702aa74d5a8630c65ae61e4305/9/GPL/openjdk-13.0.1\_linux-x64\_bin.tar.gz

$ tar -xvf openjdk-13.0.1\_linux-x64\_bin.tar.gz

$ mv jdk-13.0.1 /opt/

I have moved JDK to /opt, you can keep it anywhere in the file system.

**Step 2: Setting JAVA\_HOME and Path Environment Variables**

Open .profile file from the home directory and add the following lines to it.

JAVA\_HOME='/opt/jdk-13.0.1'

PATH="$JAVA\_HOME/bin:$PATH"

export PATH

You can relaunch the terminal or execute source .profile command to apply the configuration changes.

**Step 3: Verify the Java Installation**

You can run java -version command to verify the JDK installation.

$ java -version

openjdk version "13.0.1" 2019-10-15

OpenJDK Runtime Environment (build 13.0.1+9)

OpenJDK 64-Bit Server VM (build 13.0.1+9, mixed mode, sharing)

$

**Installing Maven on Linux/Ubuntu**

We will install Maven in a similar way that we have installed JDK in the Linux system.

**Step 1: Download the Maven Binaries**

Go to the URL: <https://maven.apache.org/download.cgi>

Copy the link for the “Binary tar.gz archive” file. Then run the following commands to download and untar it.

$ wget https://mirrors.estointernet.in/apache/maven/maven-3/3.6.3/binaries/apache-maven-3.6.3-bin.tar.gz

$ tar -xvf apache-maven-3.6.3-bin.tar.gz

$ mv apache-maven-3.6.3 /opt/

**Step 2: Setting M2\_HOME and Path Variables**

Add the following lines to the user profile file (.profile).

M2\_HOME='/opt/apache-maven-3.6.3'

PATH="$M2\_HOME/bin:$PATH"

export PATH

Relaunch the terminal or execute source .profile to apply the changes.

**Step 3: Verify the Maven installation**

Execute mvn -version command and it should produce the following output.

$ mvn -version

Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f)

Maven home: /opt/apache-maven-3.6.3

Java version: 13.0.1, vendor: Oracle Corporation, runtime: /opt/jdk-13.0.1

Default locale: en, platform encoding: UTF-8

OS name: "linux", version: "4.15.0-47-generic", arch: "amd64", family: "unix"

$

That’s all. Maven is successfully installed in your Linux system.