

# How to install Maven in Centos 7

In this session, we are going to discuss how to install maven in Centos 7.

## Prerequisites:

Your user must have sudo privileges to be able to install the packages.

## Step 1: Install OpenJDK 8 in CentOS 7

```
[root@ip-172-31-89-37 ~]# sudo yum install java-1.8.0-devel -y
```

## Output:

```
[root@ip-172-31-89-37 ~]# yum install java-1.8.0-openjdk-devel -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
Resolving Dependencies
--> Running transaction check
---> Package java-1.8.0-openjdk-devel.x86_64 1:1.8.0.332.b09-1.amzn2.0.2 will be installed
--> Processing Dependency: java-1.8.0-openjdk(x86-64) = 1:1.8.0.332.b09-1.amzn2.0.2 for package: 1:java-1.8.0-openjdk-devel-1.8.0.332.b09-1.amzn2.0.2.x86_64
--> Processing Dependency: libjvm.so()(64bit) for package: 1:java-1.8.0-openjdk-devel-1.8.0.332.b09-1.amzn2.0.2.x86_64
--> Processing Dependency: libjava.so()(64bit) for package: 1:java-1.8.0-openjdk-devel-1.8.0.332.b09-1.amzn2.0.2.x86_64
--> Processing Dependency: libX11.so.6()(64bit) for package: 1:java-1.8.0-openjdk-devel-1.8.0.332.b09-1.amzn2.0.2.x86_64
--> Running transaction check
---> Package java-1.8.0-openjdk.x86_64 1:1.8.0.332.b09-1.amzn2.0.2 will be installed
```

## Step 1.1: Check whether java is installed or not using the below command.

```
[root@ip-172-31-89-37 ~]# sudo java -version
```

**Output:**

```
[root@ip-172-31-89-37 ~]# java -version
openjdk version "1.8.0_332"
OpenJDK Runtime Environment (build 1.8.0_332-b09)
OpenJDK 64-Bit Server VM (build 25.332-b09, mixed mode)
[root@ip-172-31-89-37 ~]#
```

**Step 2:** Install Apache Maven in CentOS 7

**Step 2.1:** Now Go to the official [Apache Maven download page](https://d1cdn.apache.org/maven/maven-3/3.8.6/binaries/apache-maven-3.8.6-bin.tar.gz) and take the latest version or take a specific version. And then use the wget command to download it under the maven home directory **"/opt"**

```
[root@ip-172-31-89-37 ~]# cd /opt/
[root@ip-172-31-89-37 opt]# pwd
/opt
[root@ip-172-31-89-37 opt]# wget https://d1cdn.apache.org/maven/maven-3/3.8.6/binaries/apache-maven-3.8.6-bin.tar.gz
```

**Output:**

```
[root@ip-172-31-89-37 opt]# pwd
/opt
[root@ip-172-31-89-37 opt]# wget https://d1cdn.apache.org/maven/maven-3/3.8.6/binaries/apache-maven-3.8.6-bin.tar.gz
--2022-08-27 09:10:52-- https://d1cdn.apache.org/maven/maven-3/3.8.6/binaries/apache-maven-3.8.6-bin.tar.gz
Resolving d1cdn.apache.org (d1cdn.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to d1cdn.apache.org (d1cdn.apache.org)|151.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 8676320 (8.3M) [application/x-gzip]
Saving to: 'apache-maven-3.8.6-bin.tar.gz'

100%[=====] 8,676,320  --.-K/s  in 0.04s

2022-08-27 09:10:52 (219 MB/s) - 'apache-maven-3.8.6-bin.tar.gz' saved [8676320/8676320]

[root@ip-172-31-89-37 opt]#
```

**Step 2.2:** Extract the downloaded archive file using following commands.

```
[root@ip-172-31-89-37 opt]# sudo tar -xvf apache-maven-3.8.6-bin.tar.gz
```

**Output:**

```
[root@ip-172-31-89-37 opt]# pwd
/opt
[root@ip-172-31-89-37 opt]# ls
apache-maven-3.8.6-bin.tar.gz  aws  rh
[root@ip-172-31-89-37 opt]# tar -xvf apache-maven-3.8.6-bin.tar.gz
apache-maven-3.8.6/README.txt
apache-maven-3.8.6/LICENSE
apache-maven-3.8.6/NOTICE
apache-maven-3.8.6/lib/
apache-maven-3.8.6/lib/commons-cli.license
apache-maven-3.8.6/lib/commons-io.license
apache-maven-3.8.6/lib/commons-lang3.license
apache-maven-3.8.6/lib/guava.license
apache-maven-3.8.6/lib/guice.license
apache-maven-3.8.6/lib/jansi.license
apache-maven-3.8.6/lib/javax.annotation-api.license
apache-maven-3.8.6/lib/javax.inject.license
apache-maven-3.8.6/lib/jcl-over-slf4j.license
apache-maven-3.8.6/lib/org.eclipse.sisu.inject.license
apache-maven-3.8.6/lib/org.eclipse.sisu.plexus.license
```

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**Step 2.3:** Now rename the maven folder using below command

```
[root@ip-172-31-89-37 opt]# sudo mv apache-maven-3.8.6 maven
```

**Output:**

```
[root@ip-172-31-89-37 opt]# ll
total 8476
drwxr-xr-x 6 root root    99 Aug 27 09:12 apache-maven-3.8.6
-rw-r--r-- 1 root root 8676320 Jun  6 16:45 apache-maven-3.8.6-bin.tar.gz
drwxr-xr-x 4 root root    33 Aug 15 20:22 aws
drwxr-xr-x 2 root root     6 Aug 16 2018 rh
[root@ip-172-31-89-37 opt]# mv apache-maven-3.8.6 maven
[root@ip-172-31-89-37 opt]# ll
total 8476
-rw-r--r-- 1 root root 8676320 Jun  6 16:45 apache-maven-3.8.6-bin.tar.gz
drwxr-xr-x 4 root root    33 Aug 15 20:22 aws
drwxr-xr-x 6 root root    99 Aug 27 09:12 maven
drwxr-xr-x 2 root root     6 Aug 16 2018 rh
[root@ip-172-31-89-37 opt]#
```

**Step 2.4:** Now configure the Apache Maven Environment

For pre-compiled Apache Maven files on our system, we have to configure the apache maven environments variables. So create the “**maven.sh**” in the “**/etc/profile.d**” directory.

```
[root@ip-172-31-89-37 opt]# cd /etc/profile.d/  
[root@ip-172-31-89-37 profile.d]# pwd  
/etc/profile.d  
[root@ip-172-31-89-37 profile.d]# sudo vim maven.sh
```

Add the below configuration inside the “**maven.sh**” configuration file.

```
# Apache Maven Environment Variables  
# MAVEN_HOME for Maven 1 - M2_HOME for Maven 2  
export M2_HOME=/opt/maven  
export PATH=${M2_HOME}/bin:${PATH}
```

**Output:**

```
[root@ip-172-31-89-37 opt]# cd /etc/profile.d/  
[root@ip-172-31-89-37 profile.d]# pwd  
/etc/profile.d  
[root@ip-172-31-89-37 profile.d]# cat maven.sh  
# Apache Maven Environment Variables  
# MAVEN_HOME for Maven 1 - M2_HOME for Maven 2  
export M2_HOME=/opt/maven  
export PATH=${M2_HOME}/bin:${PATH}  
[root@ip-172-31-89-37 profile.d]#
```

**Step 2.5:** Provide the execute permissions for **maven.sh** configuration using below command

```
[root@ip-172-31-89-37 profile.d]# sudo chmod 777 maven.sh
```

**Output:**

```
[root@ip-172-31-89-37 profile.d]# chmod 777 maven.sh
[root@ip-172-31-89-37 profile.d]# ll
total 64
-rw-r--r-- 1 root root 771 Jun 29 17:57 256term.csh
-rw-r--r-- 1 root root 841 Jun 29 17:57 256term.sh
-rw-r--r-- 1 root root 660 Oct 18 2017 bash_completion.sh
-rw-r--r-- 1 root root 196 Jul 31 2018 colorgrep.csh
-rw-r--r-- 1 root root 201 Jul 31 2018 colorgrep.sh
-rw-r--r-- 1 root root 1741 Jan 23 2020 colorls.csh
-rw-r--r-- 1 root root 1606 Jan 23 2020 colorls.sh
-rw-r--r-- 1 root root 80 Feb 21 2020 csh.local
-rw-r--r-- 1 root root 1706 Jun 29 17:57 lang.csh
-rw-r--r-- 1 root root 2703 Jun 29 17:57 lang.sh
-rw-r--r-- 1 root root 123 Jul 31 2018 less.csh
-rw-r--r-- 1 root root 121 Jul 31 2018 less.sh
-rwxrwxrwx 1 root root 139 Aug 27 09:01 maven.sh
-rw-r--r-- 1 root root 81 Feb 21 2020 sh.local
-rw-r--r-- 1 root root 164 Aug 1 2018 which2.csh
-rw-r--r-- 1 root root 169 Aug 1 2018 which2.sh
[root@ip-172-31-89-37 profile.d]#
```

**Step 2.6:** Using source command to load the configuration in your system using below command

```
[root@ip-172-31-89-37 profile.d]# sudo source maven.sh
(or)
[root@ip-172-31-89-37 ~]# sudo source /etc/profile.d/maven.sh
```

**Step 2.7:** Now check whether maven is installed or not using below command

```
[root@ip-172-31-89-37 ~]#sudo mvn --version
```

## Output:

```
[root@ip-172-31-89-37 ~]# mvn --version
Apache Maven 3.8.6 (84538c9988a25aec085021c365c560670ad80f63)
Maven home: /opt/maven
Java version: 1.8.0_332, vendor: Red Hat, Inc., runtime: /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.332.b09-1.amzn2.0.2.x86_64/jre
Default locale: en_US, platform encoding: UTF-8
OS name: "linux", version: "5.10.130-118.517.amzn2.x86_64", arch: "amd64", family: "unix"
[root@ip-172-31-89-37 ~]#
[root@ip-172-31-89-37 ~]#
```

## Conclusion:

Congratulations. You have successfully installed Apache Maven 3.8.6 version on your CentOS 7. If you are facing any issues during the installation, please do share with us in the comment section.

**\*\* Thank you for watching this Video. We will see you in the next video. \*\***

# Learn DevOps From Scratch in Telugu- Moole Muralidhara Reddy

**Udemy Course url:** <https://www.udemy.com/course/learn-devops-from-scratch-in-telugu-moole-muralidhara-reddy/>

## About the Author:



### **MOOLE MURALIDHARA REDDY** **Solution Architect / DevOps Consultant**

- I am having rich experience in Devops and Cloud technologies and have done many projects on all varieties of tools which are hot cake in the market.
- I am passionate about learning new technology and teaching.
- My courses focus on providing students with an interactive and hands-on experience in learning new technology that makes learning really interesting.
- I have a wide range of experience in Telecom, Banking, Healthcare, Retail domains.
- I have been training people in newer technologies, like DevOps, AWS, Kubernetes, Terraform, Rancher, etc. and they have settled in MNC's and drawing respectable salaries.
- I have undergone many challenges and changed the entire phase of the projects.
- Certified in AWS, Kubernetes, Terraform, Linux and many to go.

**Please check out my courses and join me with thousands of others who are learning the latest DevOps and Cloud tools!**

**Website Url:** <https://www.techworldwithmurali.com/>

**Linkedin Profile :** <https://www.linkedin.com/in/moole-muralidhara-reddy/>