

## Installing Apache Maven on Mac OS

1. Diawali periksa ketersediaan Java di environment kita

```
[sh-3.2# /usr/libexec/java_home -V
Matching Java Virtual Machines (1):
 17.0.4.1 (x86_64) "Oracle Corporation" - "Java SE 17.0.4.1" /Library/Java/JavaVirtualMachines/jdk-17.0.4.1.jdk/Contents/Home
/Library/Java/JavaVirtualMachines/jdk-17.0.4.1.jdk/Contents/Home
sh-3.2# █]
```

2. Saat menjalankan command `$ mvn -version` yang belum ada hasil tampilan indentifikasinya bisa di lanjut proses instalasi Apache-Maven itu sendiri

- a. Download ➔ <https://maven.apache.org/download.cgi>

 Learn Microservices with Spring Boot ( PDFDrive ).mobi	2,3 MB
 apache-maven-3.8.6-bin.tar.gz	8,7 MB
 db_keu_hris.sql	4 KB
 rbac5.sql	9 KB
 apache-maven-3.8.6-bin.zip	8,8 MB

- b. Pindahkan apache-maven-3.8.6-bin.zip ke \$HOME

```
[(base) mac@Macs-MacBook Downloads % mv ./apache-maven-3.8.6-bin.zip $HOME
[(base) mac@Macs-MacBook Downloads % cd ..
[(base) mac@Macs-MacBook ~ % ls
Applications
Desktop
Documents
Downloads
Hands-On-Microservices-with-Spring-Boot-and-Spring-Cloud
Library
Movies
Music
MyApp
Pictures
Projects
Public
Study
VirtualBox VMs
apache-maven-3.8.6-bin.zip
docker-postgres
(base) mac@Macs-MacBook ~ % █]
```

Lanjutkan proses extract ' \*.bin.zip '

```
inflating: apache-maven-3.8.6/lib/commons-lang3-3.8.1.jar
inflating: apache-maven-3.8.6/lib/maven-core-3.8.6.jar
inflating: apache-maven-3.8.6/lib/maven-repository-metadata-3.8.6.jar
inflating: apache-maven-3.8.6/lib/maven-artifact-3.8.6.jar
inflating: apache-maven-3.8.6/lib/maven-resolver-provider-3.8.6.jar
inflating: apache-maven-3.8.6/lib/maven-resolver-impl-1.6.3.jar
inflating: apache-maven-3.8.6/lib/maven-resolver-spi-1.6.3.jar
inflating: apache-maven-3.8.6/lib/org.eclipse.sisu.inject-0.3.5.jar
inflating: apache-maven-3.8.6/lib/plexus-interpolation-1.26.jar
inflating: apache-maven-3.8.6/lib/plexus-component-annotations-2.1.0.jar
inflating: apache-maven-3.8.6/lib/maven-compact-3.8.6.jar
inflating: apache-maven-3.8.6/lib/wagon-provider-api-3.5.1.jar
inflating: apache-maven-3.8.6/lib/org.eclipse.sisu.plexus-0.3.5.jar
inflating: apache-maven-3.8.6/lib/commons-cli-1.4.jar
inflating: apache-maven-3.8.6/lib/wagon-http-3.5.1-shaded.jar
inflating: apache-maven-3.8.6/lib/jcl-over-slf4j-1.7.36.jar
inflating: apache-maven-3.8.6/lib/wagon-file-3.5.1.jar
inflating: apache-maven-3.8.6/lib/maven-resolver-connector-basic-1.6.3.jar
inflating: apache-maven-3.8.6/lib/maven-resolver-transport-wagon-1.6.3.jar
inflating: apache-maven-3.8.6/lib/maven-slf4j-provider-3.8.6.jar
inflating: apache-maven-3.8.6/lib/jansi-2.4.0.jar
(base) mac@Macs-MacBook ~ % █]
```

Pastikan sudah ada folder 'apache-maven-3,8.6'

```
[(base) mac@Macs-MacBook ~ % rm apache-maven-3.8.6-bin.zip
[(base) mac@Macs-MacBook ~ % cd apache-maven-3.8.6
[(base) mac@Macs-MacBook apache-maven-3.8.6 % ls
LICENSE          README.txt       boot            lib
NOTICE           bin             conf
[(base) mac@Macs-MacBook apache-maven-3.8.6 % █
```

Kita pindah ke folder '/bin' dalam folder '/apache-maven-3.8.6'

```
[(base) mac@Macs-MacBook / % cd $HOME
[(base) mac@Macs-MacBook ~ % cd apache-maven-3.8.6
[(base) mac@Macs-MacBook apache-maven-3.8.6 % ls
LICENSE          README.txt       boot            lib
NOTICE           bin             conf
[(base) mac@Macs-MacBook apache-maven-3.8.6 % cd bin
[(base) mac@Macs-MacBook bin % ls
m2.conf          mvn.cmd          mvnDebug.cmd
mvn              mvnDebug         mvnypj
[(base) mac@Macs-MacBook bin % █
```

Kita lihat isi file ./mvn :

```
[(base) mac@Macs-MacBook apache-maven-3.8.6 % cd bin
[(base) mac@Macs-MacBook bin % ls
m2.conf          mvn.cmd          mvnDebug.cmd
mvn              mvnDebug         mvnypj
[(base) mac@Macs-MacBook bin % ./mvn
[INFO] Scanning for projects...
[INFO]
[INFO] BUILD FAILURE
[INFO]
[INFO] Total time: 0.111 s
[INFO] Finished at: 2022-12-02T16:41:27+07:00
[INFO]
[ERROR] No goals have been specified for this build. You must specify a valid lifecycle phase or a goal in the format <plug
in-prefix>:<goal> or <plugin-group-id>:<plugin-artifact-id>[:<plugin-version>]:<goal>. Available lifecycle phases are: vali
date, initialize, generate-sources, process-sources, generate-resources, process-resources, compile, process-classes, gener
ate-test-sources, process-test-sources, generate-test-resources, process-test-resources, test-compile, process-test-classes
, test, prepare-package, package, pre-integration-test, integration-test, post-integration-test, verify, install, deploy, p
re-clean, clean, post-clean, pre-site, site, post-site, site-deploy. -> [Help 1]
[ERROR]
[ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.
[ERROR] Re-run Maven using the -X switch to enable full debug logging.
```

- c. Sampai tahap di atas anda sudah terbilang berhasil extract maven di macOS anda dan harus di lanjutkan konfigurasi untuk disesuaikan dengan Environment coding Java kita pindah dulu ke directory apache-maven

```
[(base) mac@Macs-MacBook ~ % ls
Applications      MyApp
Desktop           Pictures
Documents         Projects
Downloads         Public
Hands-On-Microservices-with-Spring-Boot-and-Spring-Cloud  Study
Library           VirtualBox VMs
Movies            apache-maven-3.8.6
Music             docker-postgres

[(base) mac@Macs-MacBook ~ % cd ./apache-maven-3.8.6
[(base) mac@Macs-MacBook apache-maven-3.8.6 % pwd
/Users/mac/apache-maven-3.8.6
[(base) mac@Macs-MacBook apache-maven-3.8.6 % █
```

Kita pindah lagi ke home directory kita '\$HOME' cari file '.bash\_profile' dan lakukan setting environment di sana seperti ini :

```

GNU nano 2.0.6                                     File: .bash_profile

    . "/opt/anaconda3/etc/profile.d/conda.sh"
else
    export PATH="/opt/anaconda3/bin:$PATH"
fi
fi
unset __conda_setup
# <<< conda initialize <<<
export M_HOME=/Users/mac/apache-maven-3.8.6
export PATH=$PATH:$M_HOME/bin

```

- d. Lakukan refresh dan coba identifikasi apakah maven sudah berhasil terintegrasi ke system anda dengan Langkah seperti ini:

```

[Restored 2 Dec 2022 08.16.58]
Last login: Fri Dec  2 07:02:24 on console
(base) mac@Macs-MacBook ~ % source .bash_profile
(base) mac@Macs-MacBook ~ % mvn -version
Apache Maven 3.8.6 (84538c9988a25aec085021c365c560670ad80f63)
Maven home: /Users/mac/apache-maven-3.8.6
Java version: 17.0.4.1, vendor: Oracle Corporation, runtime: /Library/Java/JavaVirtualMachines/jdk-17.0.4.1.jdk/Contents/Home
Default locale: en_ID, platform encoding: UTF-8
OS name: "mac os x", version: "11.0.1", arch: "x86_64", family: "mac"
(base) mac@Macs-MacBook ~ %

```

Sampai tahan identifikasi yg sudah berhasil menunjukkan versi Maven yang terintegrasi dengan JDK maka anda dinyatakan sudah siap berexplorasi lebih lanjut di Java Environment . "Alhamdulillah ala qullihal"