

# RAJAT VERMA

# SOFTWARE TESTING

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## SOFTWARES SETUP | OS | MAC

# JAVA



<https://github.com/rajatt95>

<https://www.youtube.com/@rajatt95>



# What is Java JDK?

1. Java Development Kit (JDK)
  - a. It is a cross-platform software development environment that
    - i. offers a collection of tools and libraries necessary for
      1. developing Java-based software applications.
2. **JDK=JRE+Development Tools**



# How to download Java JDK?

1. Go to URL:
  - a. <https://www.oracle.com/in/java/technologies/downloads/archive/>
  - b. Example
    - i. Jdk-15.0.2 osx-x64 bin.dmg
2. MAC -
  - a. .dmg file



macOS Installer

175.93 MB



[jdk-15.0.2\\_osx-x64\\_bin.dmg](#)



<https://github.com/rajatt95>

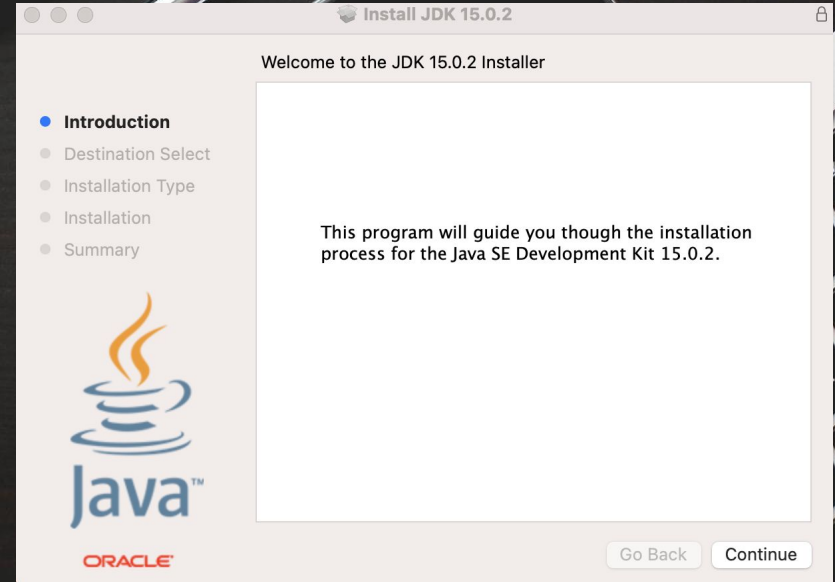
<https://www.youtube.com/@rajatt95>





# How to install Java JDK?

1. Once the dmg file is downloaded
2. Open the file and
  - a. Setup wizard will come
  - b. Install with default settings



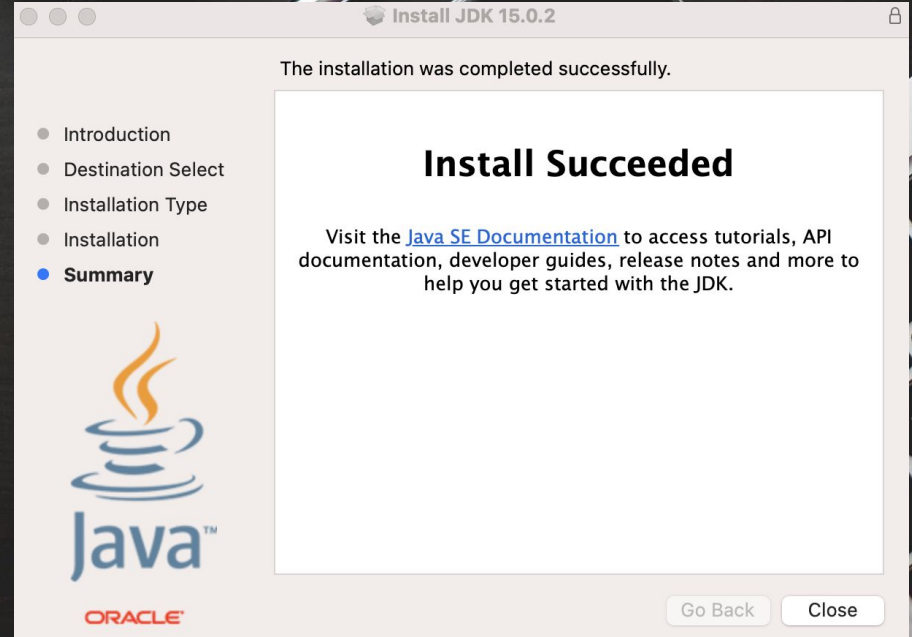
<https://github.com/rajatt95>

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# How to verify that Java JDK is installed or not?

1. Open Terminal
2. To verify that Java JDK setup
3. Command
  - a. `java -version`



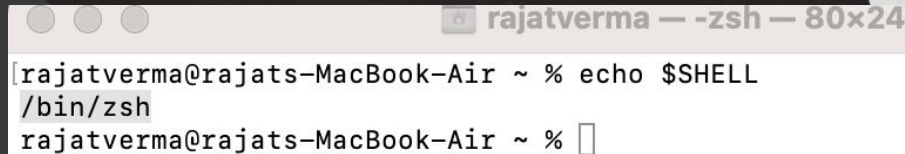
<https://github.com/rajatt95>

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# Setup Environment Variable

1. Open Terminal
2. Commands
  - a. To find which shell your mac OS is using
    - i. **echo \$SHELL**

A screenshot of a macOS Terminal window. The title bar shows 'rajatverma — zsh — 80x24'. The window has three red, yellow, and green window control buttons in the top-left corner. The terminal text shows the command 'echo \$SHELL' being executed, with the output '/bin/zsh' displayed on the next line. The prompt 'rajatverma@rajats-MacBook-Air ~ %' is visible at the end of the line.

```
rajatverma@rajats-MacBook-Air ~ % echo $SHELL
/bin/zsh
rajatverma@rajats-MacBook-Air ~ %
```





# Setup Environment Variable

..... (2)

## 1. Commands

a. To list out all the versions of Java installed in your machine

i. `/usr/libexec/java_home -V`



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```
rajatverma — zsh — 80x24

[rajatverma@rajats-MacBook-Air ~ % /usr/libexec/java_home -V]
Matching Java Virtual Machines (5):
  17.0.4 (arm64) "Amazon.com Inc." - "Amazon Corretto 17" /Users/rajatverma/Library/Java/JavaVirtualMachines/corretto-17.0.4.1/Contents/Home
  15.0.2 (x86_64) "Oracle Corporation" - "Java SE 15.0.2" /Library/Java/JavaVirtualMachines/jdk-15.0.2.jdk/Contents/Home
  11.0.13 (x86_64) "Oracle Corporation" - "Java SE 11.0.13" /Library/Java/JavaVirtualMachines/jdk-11.0.13.jdk/Contents/Home
  1.8.341.10 (x86_64) "Oracle Corporation" - "Java" /Library/Internet Plug-Ins/JavaAppletPlugin.plugin/Contents/Home
  1.8.0_311 (x86_64) "Oracle Corporation" - "Java SE 8" /Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home
/Users/rajatverma/Library/Java/JavaVirtualMachines/corretto-17.0.4.1/Contents/Home
rajatverma@rajats-MacBook-Air ~ %
```

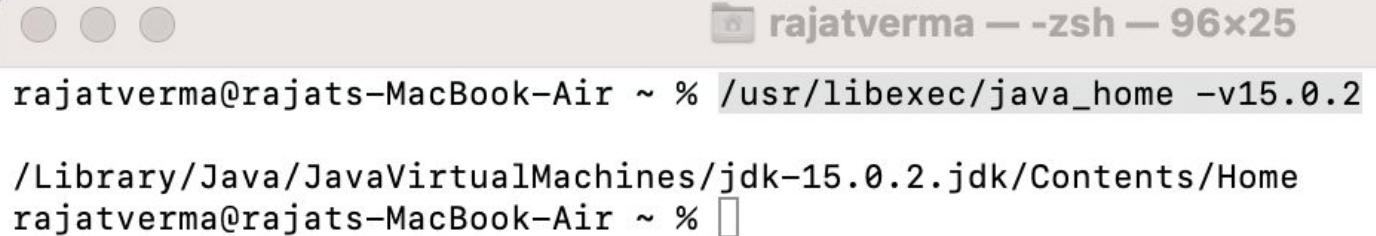
# Setup Environment Variable

..... (3)

## 1. Commands

a. To run a specified JDK command

i. `/usr/libexec/java_home -v15.0.2`



A terminal window titled 'rajatverma — -zsh — 96x25' is shown. The prompt is 'rajatverma@rajats-MacBook-Air ~ %'. The command '/usr/libexec/java\_home -v15.0.2' is entered and executed. The output is '/Library/Java/JavaVirtualMachines/jdk-15.0.2.jdk/Contents/Home'. The prompt returns to 'rajatverma@rajats-MacBook-Air ~ %'.

```
rajatverma@rajats-MacBook-Air ~ % /usr/libexec/java_home -v15.0.2
/Library/Java/JavaVirtualMachines/jdk-15.0.2.jdk/Contents/Home
rajatverma@rajats-MacBook-Air ~ %
```





# Setup Environment Variable

..... (4)

## 1. Commands

a. To go to Home Path

i. `cd ~/`

b. To check .zshrc file exists or not

i. `ls -a`

c. If it is not created

i. `touch .zshrc`

```
rajatverma — zsh — 96x25
[rajatverma@rajats-MacBook-Air ~ % ls -a
.                  .zsh_history
..                 .zsh_sessions
..                 .zshrc
.DS_Store          Applications
.Trash              Desktop
.android            Documents
.anydesk            Downloads
.appium             Library
.bash_profile       Movies
.cache              Music
.config             OneDrive
.cups               Pictures
.docker             Postman
.eclipse            Public
.emulator_console_auth_token  java_error_in_idea.hprof
.gem
.gitconfig          .zprofile
.gitconfig           .zprofile.pysave
rajatverma@rajats-MacBook-Air ~ %
```



<https://github.com/rajatt95>

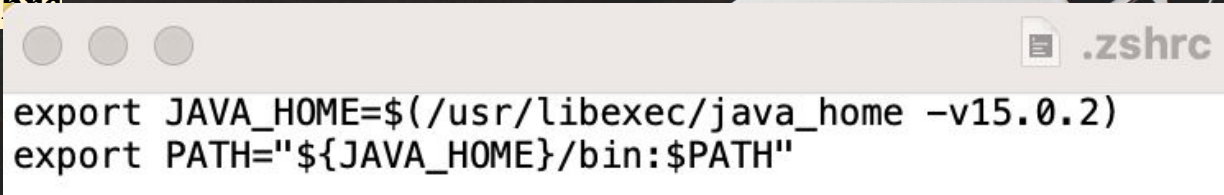
# Setup Environment Variable

..... (5)

## 1. Commands

a. To open `.zshrc` file

- i. `cd ~/`
- ii. `open -e .zshrc`
- iii. `export JAVA_HOME=$(/usr/libexec/java_home -v15.0.2)`  
`export PATH="${JAVA_HOME}/bin:$PATH"`
- iv. `source .zshrc`



```
export JAVA_HOME=$(/usr/libexec/java_home -v15.0.2)
export PATH="${JAVA_HOME}/bin:$PATH"
```



# Setup Environment Variable

..... (6)

## 1. Commands

a. To open file- **Other way**

i. **nano .zshrc**

1. **export JAVA\_HOME=\$(/usr/libexec/java\_home)**

a. **Ctrl+O**

b. **Press RETURN key**

c. **Ctrl+X**

ii. **export JAVA\_HOME=\$(/usr/libexec/java\_home -v15.0.2)**

iii. **source ~/.zshenv**

rajatverma — nano ~/.zshenv — 96x25

UW PICO 5.09

File: /Users/rajatverma/.zshenv

```
export JAVA_HOME=$(/usr/libexec/java_home -v15.0.2)
```



..... (7)





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