

RAJAT VERMA

SOFTWARE TESTING

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SOFTWARES SETUP | OS | MAC

JAVA



<https://github.com/rajatt95>

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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](#)



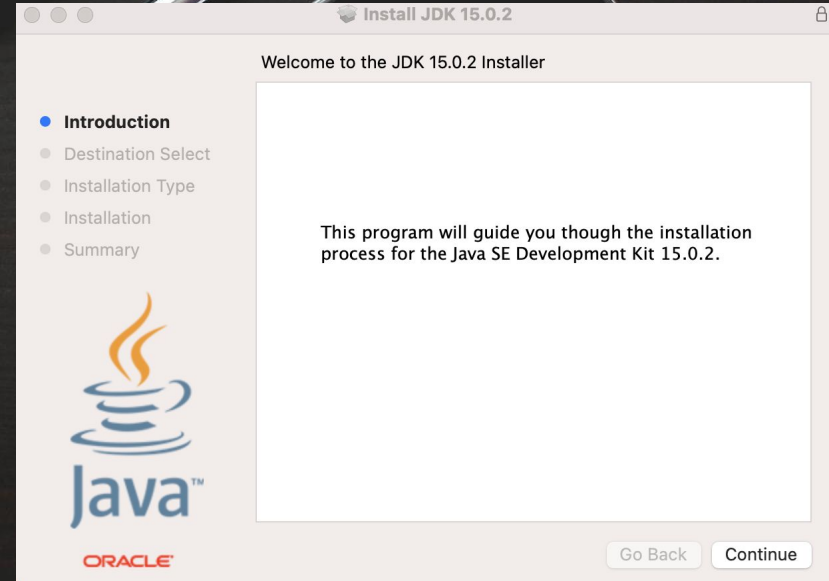
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How to install Java JDK?

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



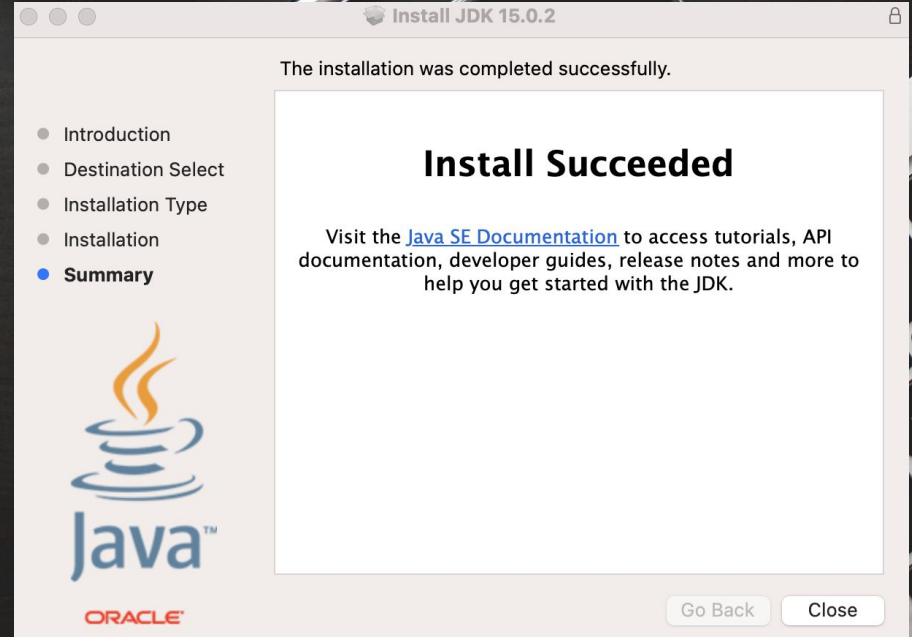
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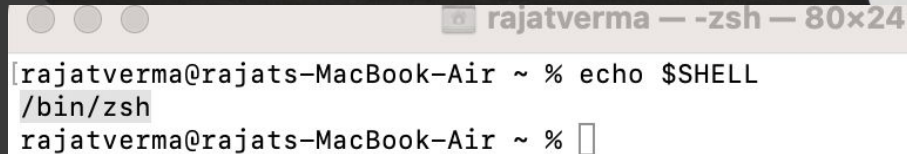
How to verify that Java JDK is installed or not?

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



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 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`



```
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 ~ %
```



<https://github.com/rajatt95>

Setup Environment Variable

..... (3)

1. Commands

a. To run a specified JDK command

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



```
rajatverma — -zsh — 96x25
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
.
..
.DS_Store
.Trash
.android
.anydesk
.appium
.bash_profile
.cache
.config
.cups
.docker
.eclipse
.emulator_console_auth_token
.gem
.gitconfig
.gradle
.groovy
.jenkins
.katalon
.lemminx
.lessht
.m2
.npm
.oracle_jre_usage
.p2
.sonarlint
.swiftpm
.vmware
.vscode
.zprofile
.zprofile.pysave
.zsh_history
.zsh_sessions
.zshrc
Applications
Desktop
Documents
Downloads
Library
Movies
Music
OneDrive
Pictures
Postman
Public
java_error_in_idea.hprof
rajatverma@rajats-MacBook-Air ~ %
```



<https://github.com/rajatt95>

Setup Environment Variable

..... (5)

1. Commands

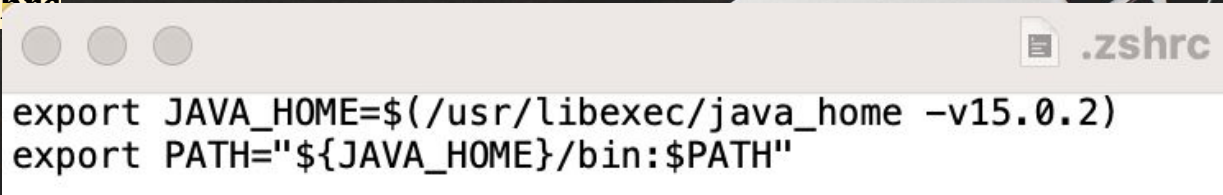
a. To open `.zshrc` file

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)



RAJAT VERMA

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