

# Java SE & Spring

## Module 1: Java SE

## 02.Setting Up Development Environment



# JDK Vendors

## → Oracle JDK

After January 2019, Oracle's JDK license policy has changed. You can use Oracle JDK as free for development, testing and prototyping, but for commercial use(in production environment) you need subscription.

## → Open JDK

This is the open-source alternative to Oracle JDK. Lots of vendors release their own build JDK versions. But most populars are, OpenJDK, Redhat OpenJDK. In this course we will use Redhat build OpenJDK. As like in Oracle JDK, Redhat OpenJDK needs subscription in production environments. I will provide a link for Redhat OpenJDK 11 that you can download it.

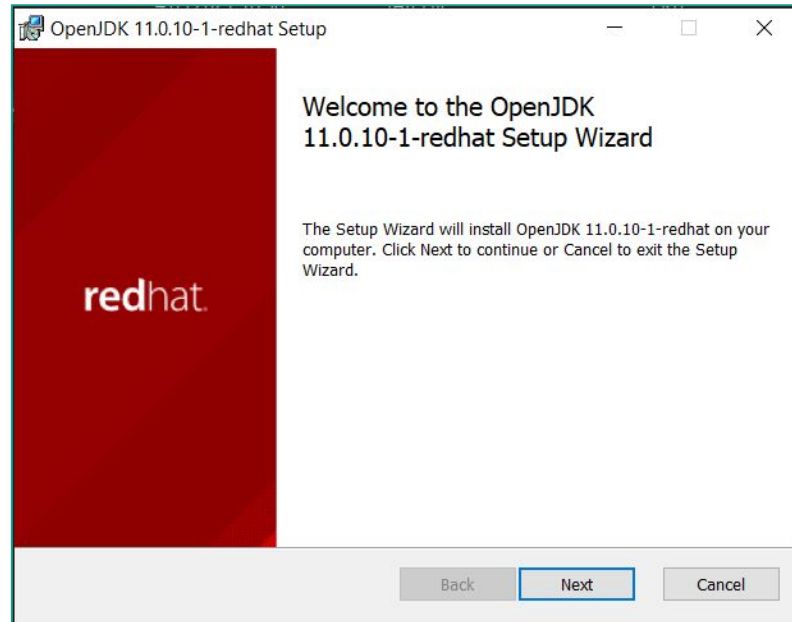
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Further reading: <https://www.oracle.com/tr/java/technologies/javase/jdk-faqs.html>

# Installing JDK

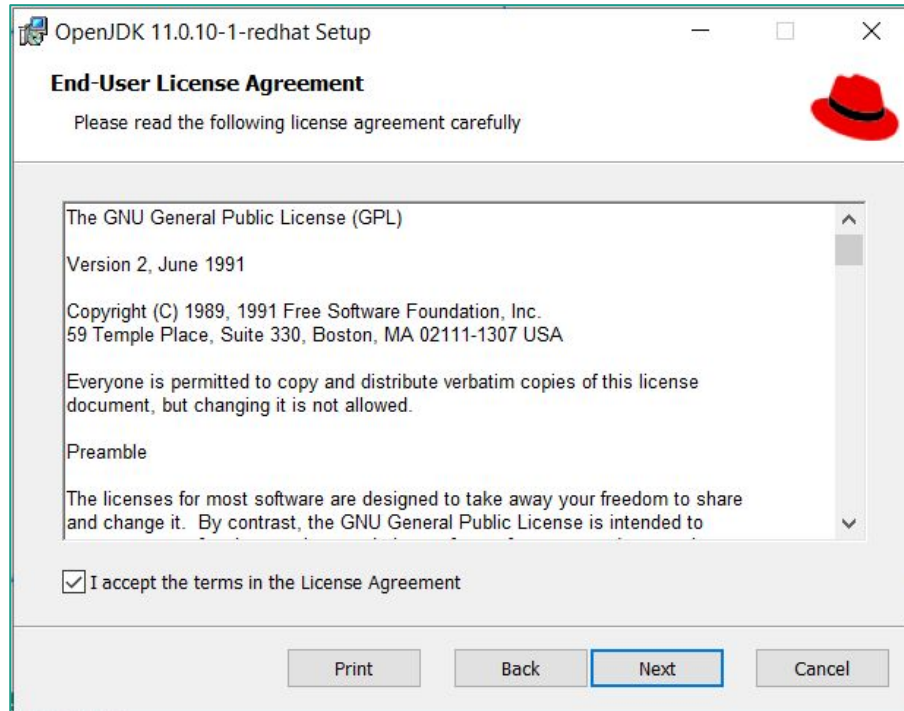
- After you download the executable JDK installer, double-click to file and start installing.

The dialog screen will be opened below, click Next button



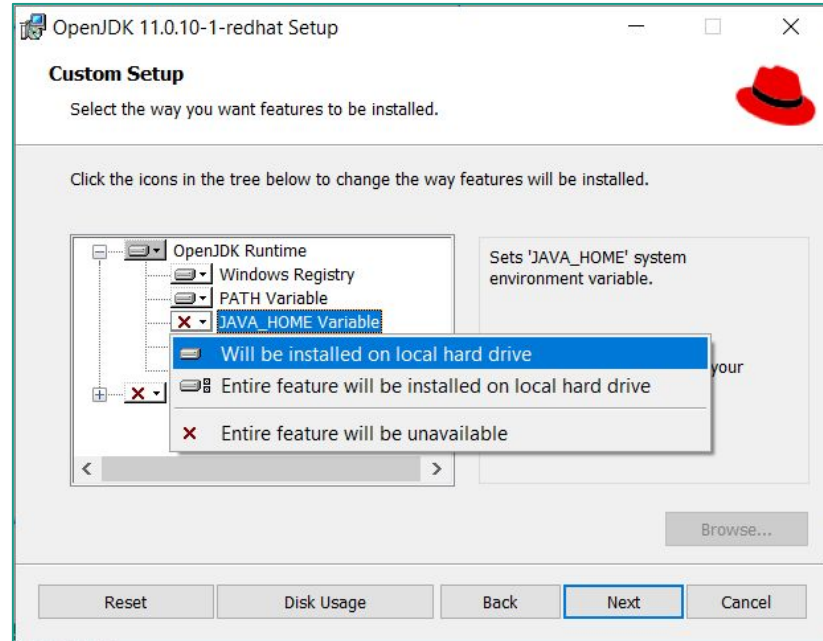
# Installing JDK

- Then check the license agreement checkbox.



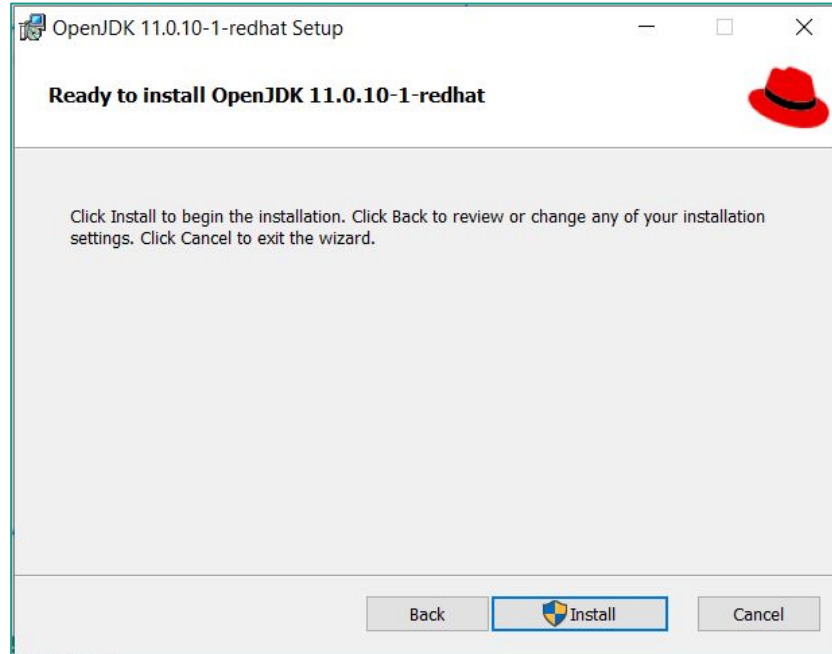
# Installing JDK

- Next, open the OpenJDK Runtime and, set JAVA\_HOME Variable to “Will be installed on local hard drive” option. If this step is skipped, then you need to configure JAVA\_HOME variable in Environment variables.



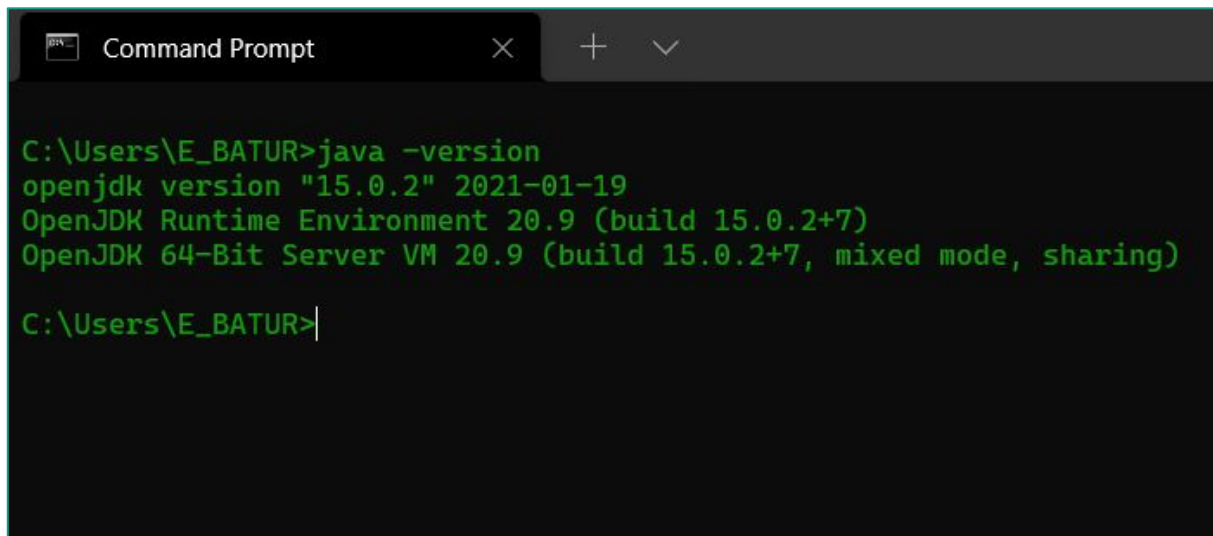
# Installing JDK

- Finally, click “Install” to finish the setup.



# Installing JDK

If the setup finished correctly, then you should check whether Java is installed properly or not. For this reason, open the terminal and write “java -version” and press Enter, this gives info about installed Java. If you’re not able to run java command, probably something went wrong. In this case, you can notify me so we handle this together.

A screenshot of a Windows Command Prompt window. The title bar shows 'Command Prompt' with standard window controls. The command prompt shows the command 'C:\Users\E\_BATUR>java -version' and its output: 'openjdk version "15.0.2" 2021-01-19', 'OpenJDK Runtime Environment 20.9 (build 15.0.2+7)', and 'OpenJDK 64-Bit Server VM 20.9 (build 15.0.2+7, mixed mode, sharing)'. The prompt is currently at 'C:\Users\E\_BATUR>'.

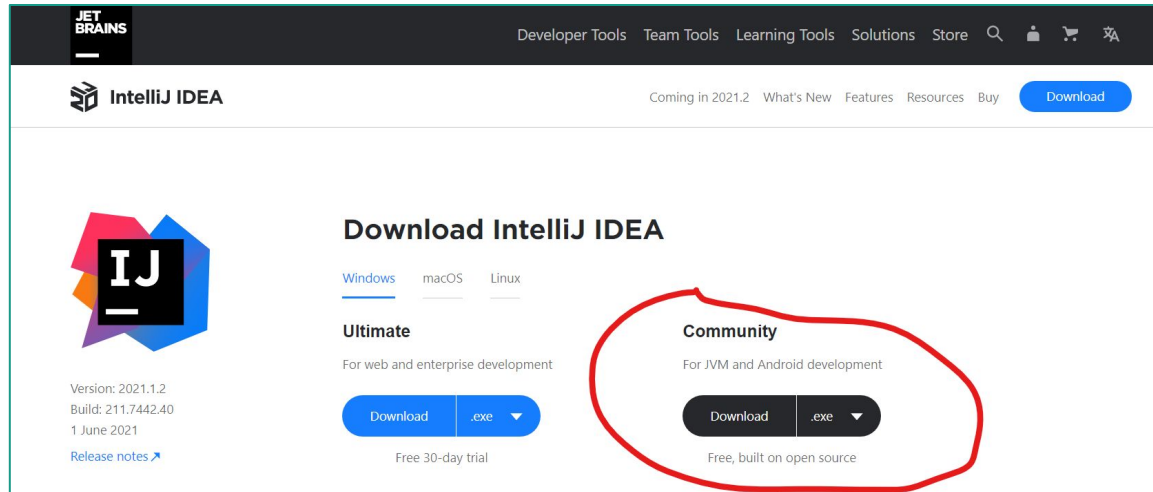
```
C:\Users\E_BATUR>java -version
openjdk version "15.0.2" 2021-01-19
OpenJDK Runtime Environment 20.9 (build 15.0.2+7)
OpenJDK 64-Bit Server VM 20.9 (build 15.0.2+7, mixed mode, sharing)

C:\Users\E_BATUR>
```



# Integrated Development Environment (IDE)

In Java ecosystem, you have different choices for IDE. Most popular of them are, Eclipse, NetBeans and IntelliJIDEA. In this course we will use IntelliJIDEA Community Edition which is free. If you have a student mail address with extension .edu or .edu.tr, you can use IntelliJIDEA Ultimate as free. Both versions of the IntelliJ is suitable for this course. You can use any of them. You can download IntelliJIDEA from <https://www.jetbrains.com/idea/download/>





# Questions ?



**Next: Data Types, Variables and Scope**