



Installation Guide— Prerequisites

Version Dated: 07.2024

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Required Software

Java SE Development Kit 8u251

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Installation Guide

Java 8





Overview

Visual Studio is the most comprehensive IDE for creating web, cloud, desktop, mobile apps, and games in C# and .NET. It's a free, extensible, and fully-featured solution for developers to create Windows, Android, iOS, and web-based applications.




Installation Version: Java SE Development Kit 8u251

Below are the steps to download and install Java 8 on our system:

Step 1: Click [this](#) link to download the installation file. The download page will display.

Java SE Development Kit 8u251		
This software is licensed under the Oracle Technology Network License Agreement for Oracle Java SE		
Product / File Description	File Size	Download
Linux ARM 32 Hard Float ABI	72.87 MB	 jdk-8u251-linux-arm32-vfp-hflt.tar.gz
Linux ARM 64 Hard Float ABI	69.77 MB	 jdk-8u251-linux-arm64-vfp-hflt.tar.gz
Linux x86 RPM Package	171.71 MB	 jdk-8u251-linux-i586.rpm
Linux x86 Compressed Archive	186.6 MB	

Step 2: Scroll down to the **Windows x64** version and click the corresponding link.


Solaris x64	91.9 MB	 jdk-8u251-solaris-x64.tar.gz
Windows x86	201.17 MB	 jdk-8u251-windows-i586.exe
Windows x64	211.54 MB	 jdk-8u251-windows-x64.exe

Step 3: Click the highlighted link; a pop-up will appear on the screen. Ensure that you have selected the checkbox to accept the agreement. Click the **Download** button to begin the download.

You must accept the [Oracle Technology Network License Agreement for Oracle Java SE](#) to download this software.

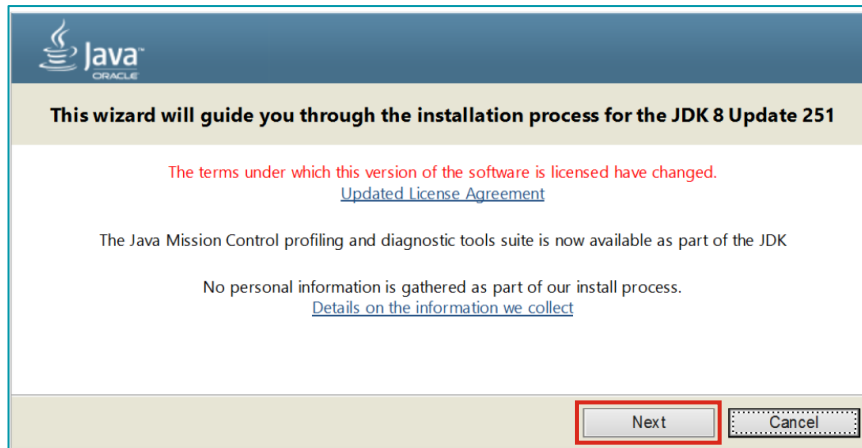
☒ I reviewed and accept the Oracle Technology Network License Agreement for Oracle Java SE

You will be redirected to the login screen in order to download the file.

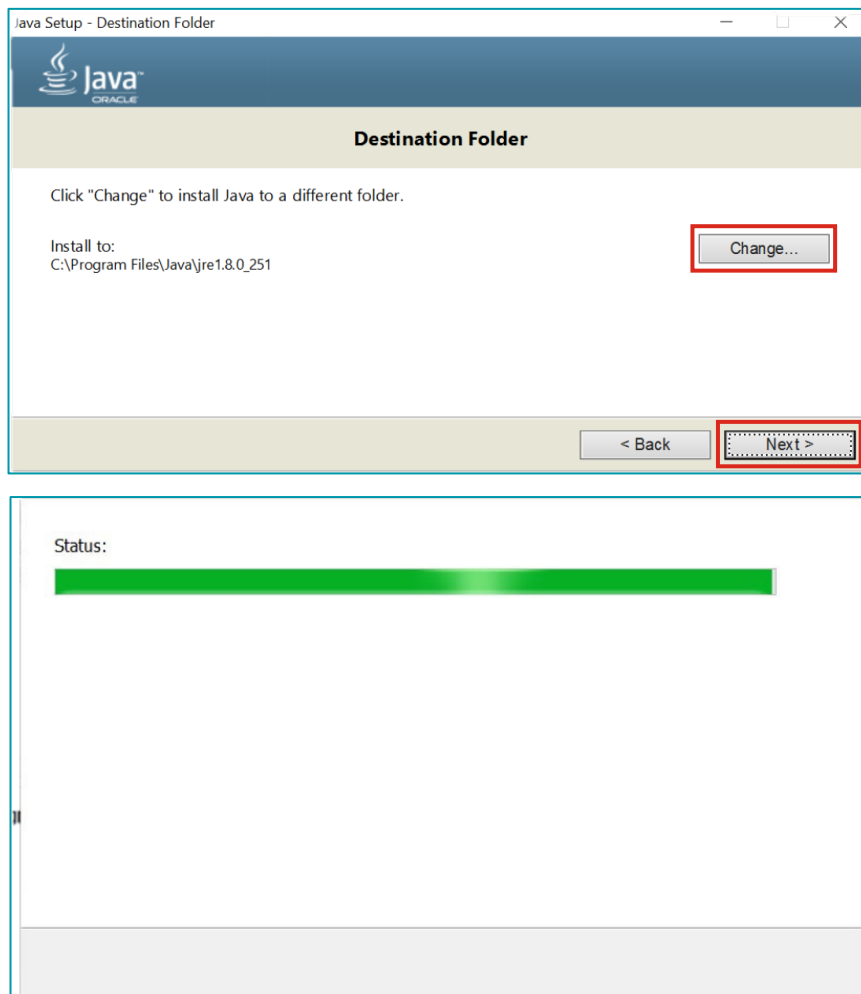
[Download jdk-8u251-windows-x64.exe](#) 

Step 4: Create an Oracle account and sign in to begin the download automatically if you are redirected to the Oracle single sign-on page.

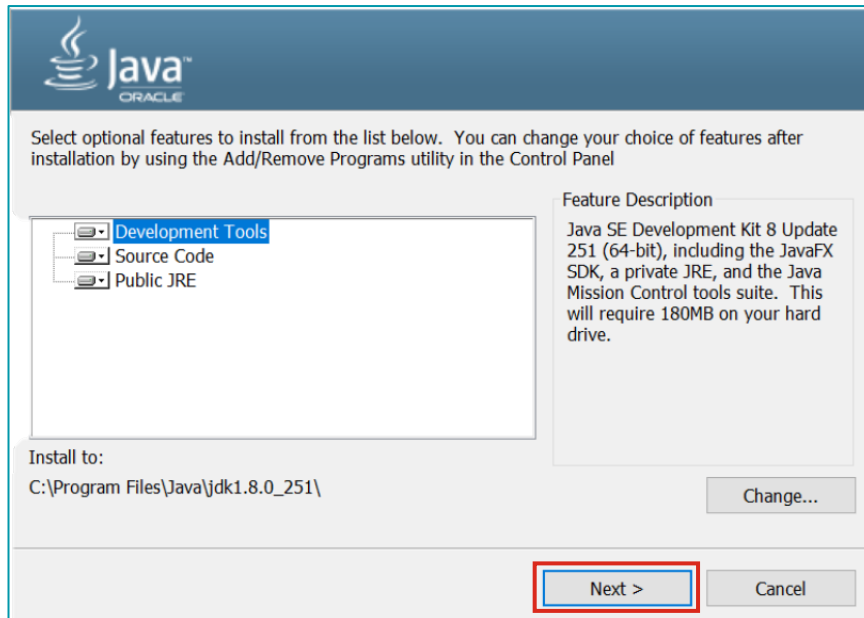
Step 5: Once the download finishes, click the downloaded file; the installation pop-up will display. Click **Next**.



Step 6: Select the destination folder using the **Change...** button and click **Next**.



Step 7: Click **Next** on the optional feature selection page as well.



Step 8: The installation will continue for some time.

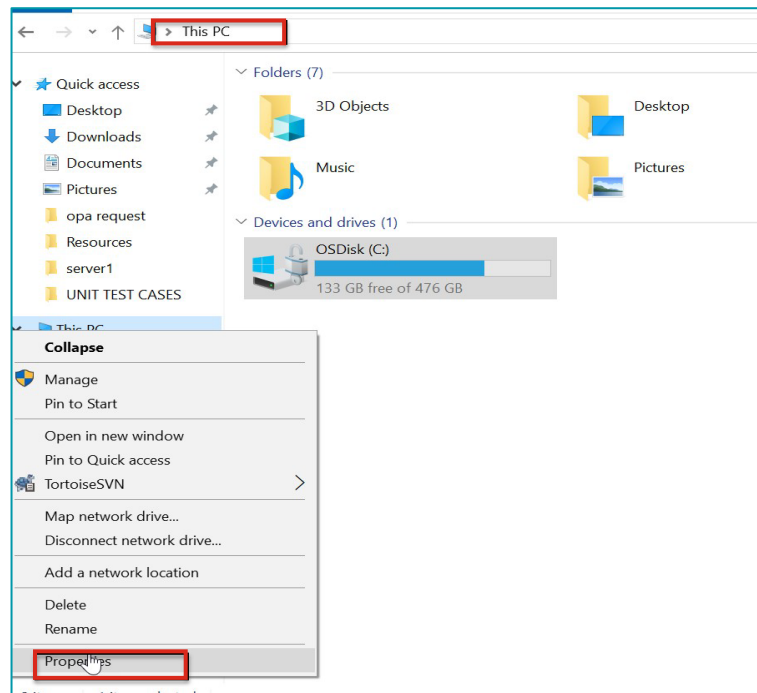


Step 9: Once the installation is complete, the following screen will appear. Java 8 is now successfully installed in your system.

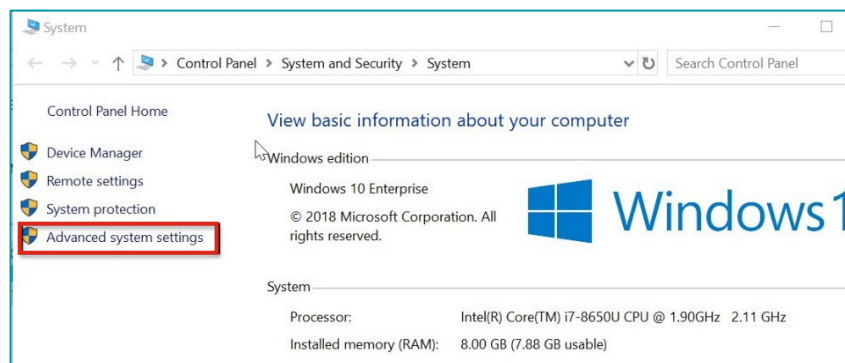


Environment Variable Configuration

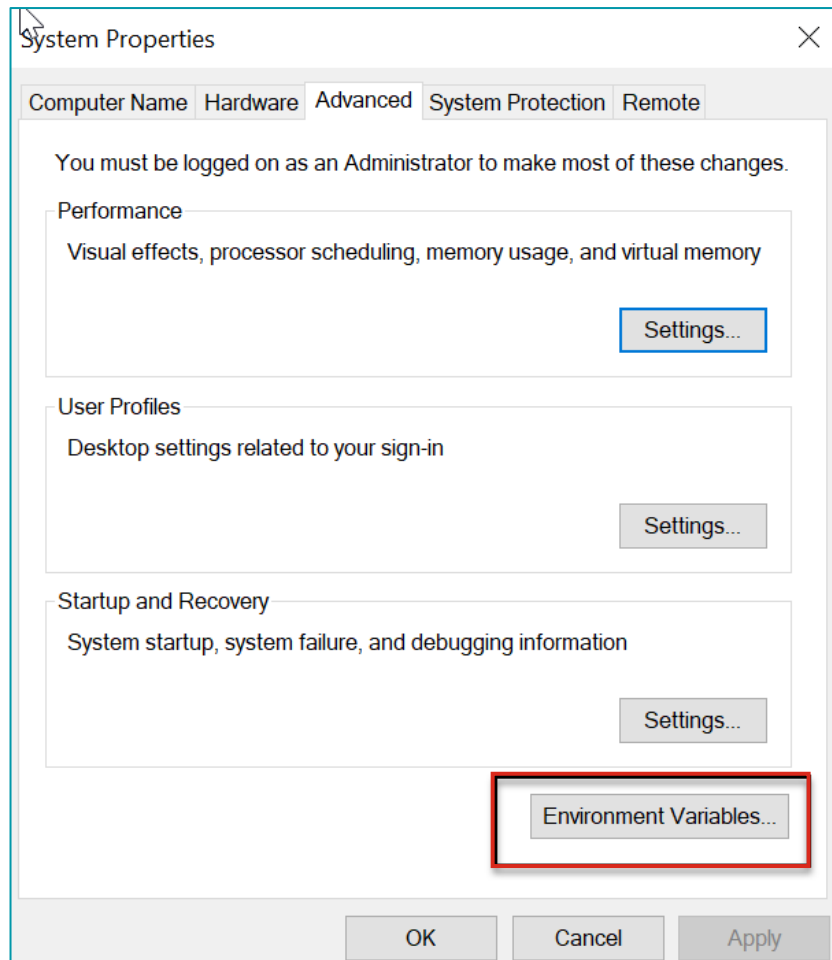
Step 1: Set up the environment variables: Open any folder, right-click **This PC** and select **Properties**.



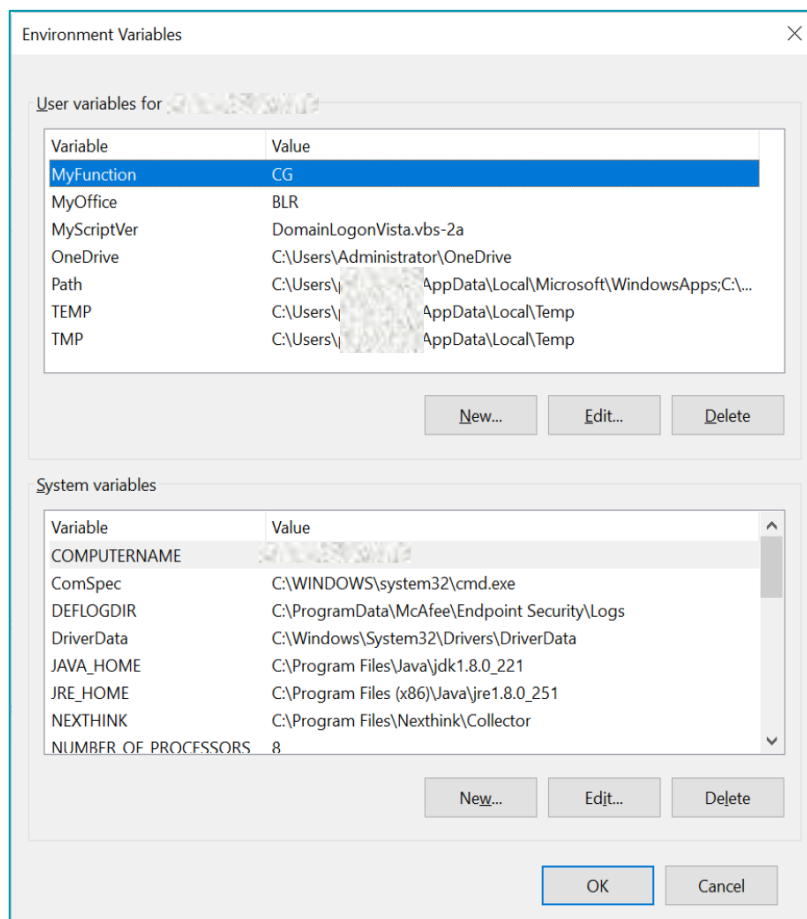
Step 2: Click **Advanced System Settings** from the left pane.



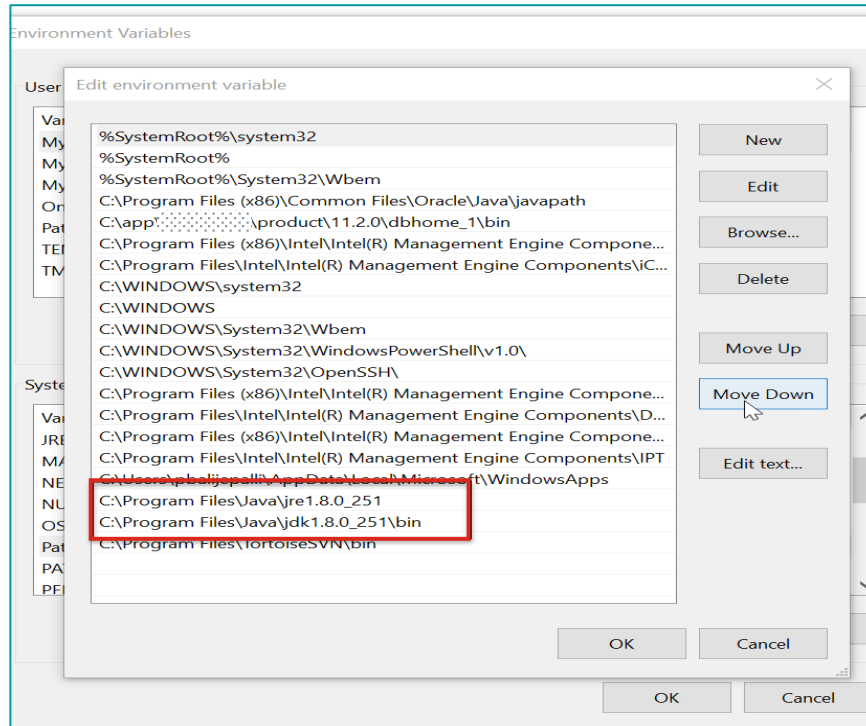
Step 3: On the **System Properties** pop-up, select the **Advanced** tab and click the **Environment Variables...** button.



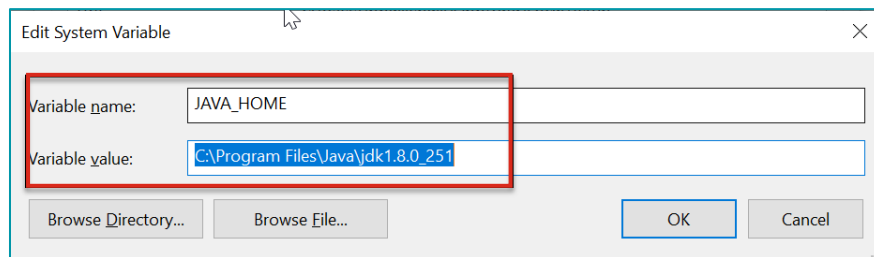
Step 4: The **Environment Variables** window is displayed.



Step 5: The environment variables mentioned below should be present in the environment variables tab that opens. If they are not present, please add and configure them with the values shown below.



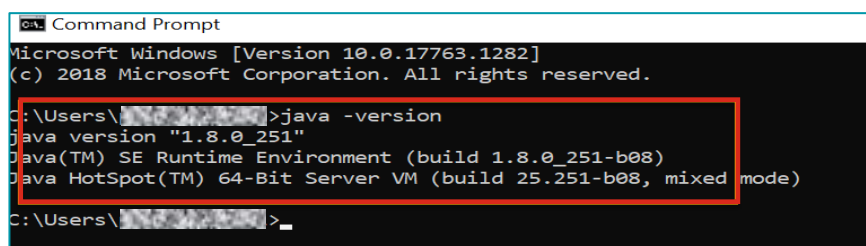
1. JAVA_HOME: This points to where the JDK software is located.



2. PATH: Edit the 'Path' variable (present in both System Variables and User Variables) and verify if the JDK path is listed correctly. If the path variable is not present, it can be added by clicking 'NEW' and giving the value as the JDK home directory folder.

Java Verification

Step 1: From the Command Prompt, type the command: **java -version**. This will display the installed Java version on the screen. Once the Java version is shown correctly, Java 8 is successfully installed and running.



Step 2: Check the output of the **javac** command.

```
Microsoft Windows [Version 10.0.17763.1339]  
(c) 2018 Microsoft Corporation. All rights reserved.  
  
C:\Users\[REDACTED]>javac -version  
javac 1.8.0_251  
  
C:\Users\[REDACTED]>
```

Eclipse IDE

Overview

Eclipse IDE is an integrated Java development environment where the applications can be developed from scratch.

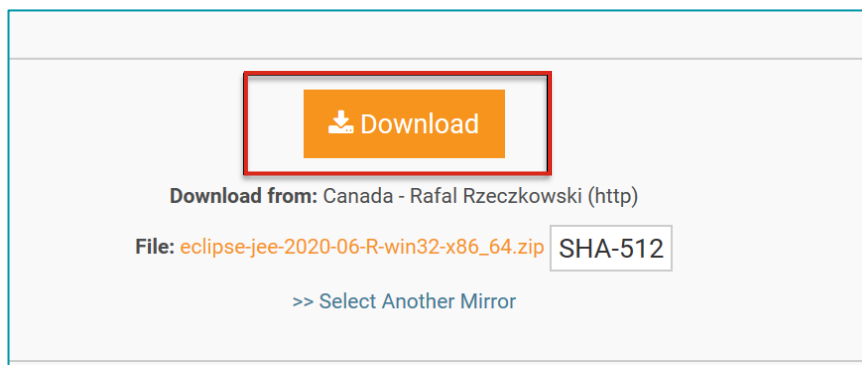
Installation Version: 2020-06

Below are the steps to download and install version 2020-06:

Step 1: Please click [this](#) link to download Eclipse IDE; you will be taken to the following page. Click the link, **Windows 64-bit** as displayed in the screenshot below.



Step 2: On the following screen, click the **Download** button.



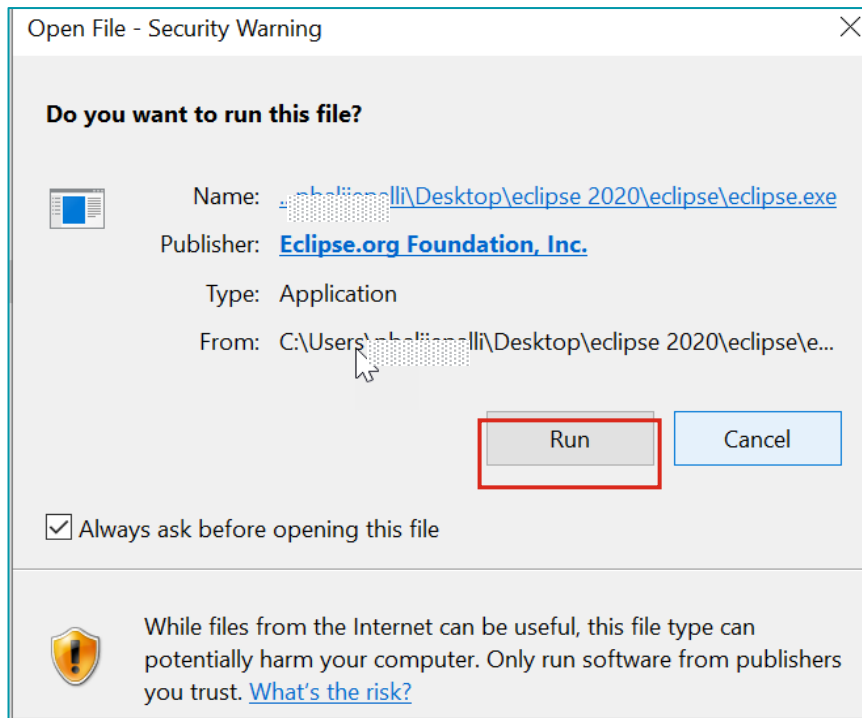
Step 3: The setup file will be downloaded.

Name	Date modified	Type	Size
eclipse-jee-2020-06-R-win32-x86_64.zip	8/28/2020 4:09 PM	WinZip File	400,223 KB

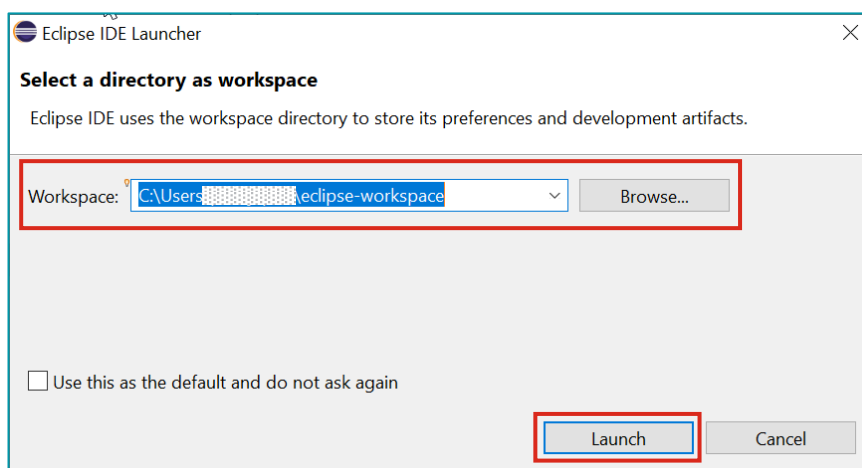
Step 4: Unzip the file and click the **eclipse.exe** file.

Name	Date modified	Type	Size
configuration	7/26/2020 5:15 PM	File folder	
dropins	6/15/2020 7:44 AM	File folder	
features	7/26/2020 5:14 PM	File folder	
p2	7/26/2020 5:14 PM	File folder	
plugins	7/26/2020 5:14 PM	File folder	
readme	7/26/2020 5:15 PM	File folder	
.eclipseproduct	6/4/2020 9:56 AM	ECLIPSEPRODUCT File	1 KB
artifacts.xml	6/15/2020 7:44 AM	XML File	118 KB
eclipse.exe	6/15/2020 7:45 AM	Application	417 KB
eclipse.ini	6/15/2020 7:44 AM	Configuration settings	1 KB
eclipsesec.exe	6/15/2020 7:45 AM	Application	129 KB

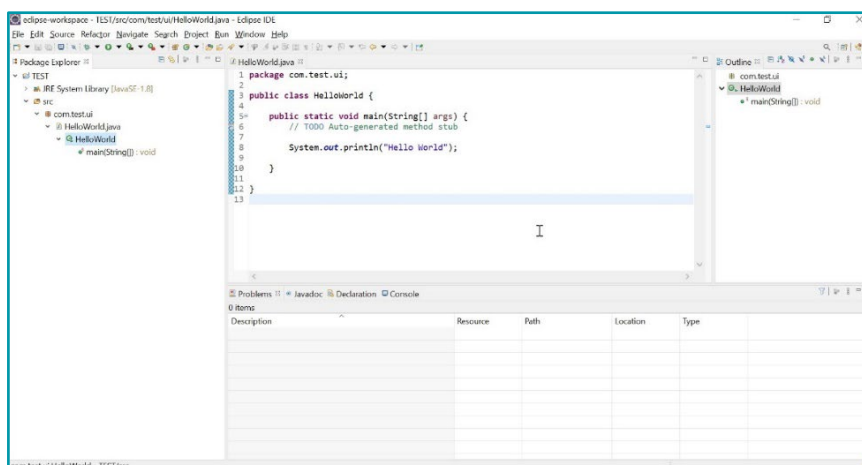
Step 5: The **Open File** pop-up displays. Click **Run**.



Step 6: On the Eclipse IDE Launcher window, select the appropriate workspace directory and click **Launch**.



Step 7: Eclipse is now successfully installed. The screen below will display.



SonarLint

Overview

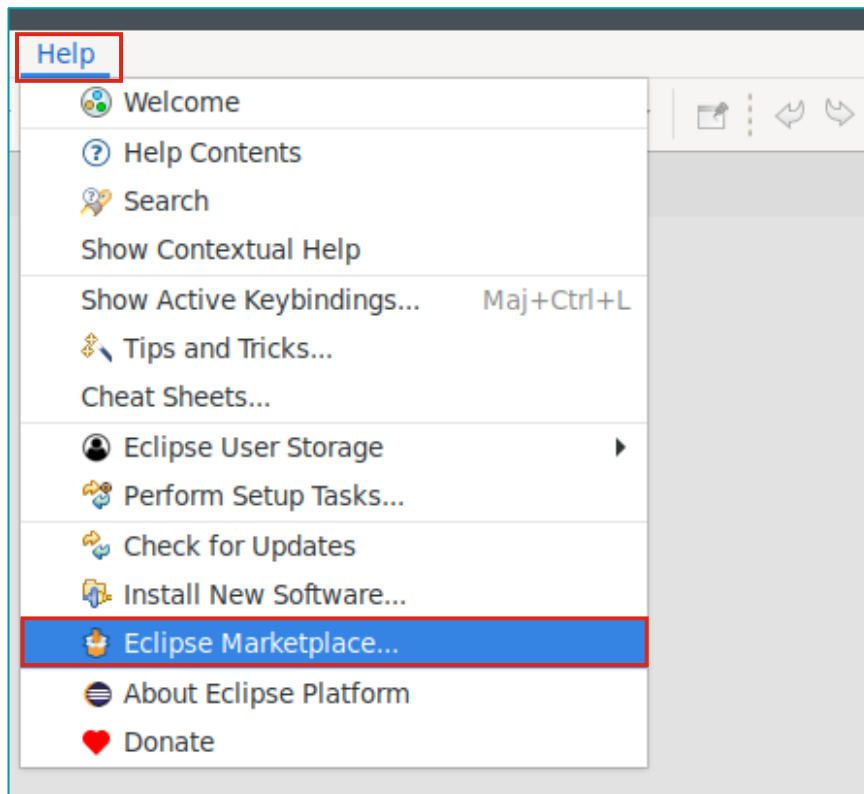
SonarLint is an Eclipse IDE extension used to detect and fix quality-related concerns in real time while writing code in various languages. It can be directly installed for Eclipse IDE using the Eclipse Marketplace.

Installation Version: 5.4.0

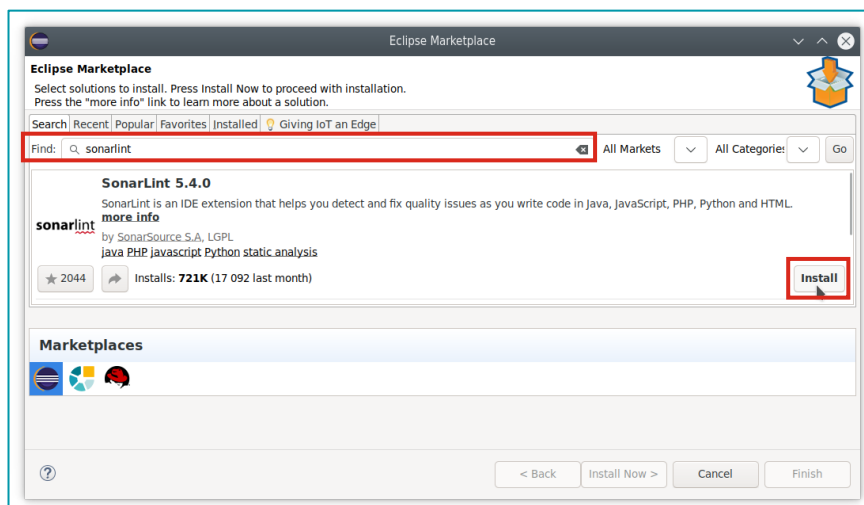
Below are the steps to install SonarLint:

Step 1: Validate the [system requirements](#).

Step 2: Open the Eclipse IDE and navigate to **Help > Eclipse Marketplace...**



Step 3: Search for **SonarLint** and click **Install**.



Step 4: Restart the IDE after the installation is complete.

Resources and Reference Materials

- **Java Programming Language Tutorial:** [Java Tutorial - GeeksforGeeks](#)
- **Eclipse User Guide:** [Help - Eclipse Platform](#)
- **Using SonarLint:** [Investigating issues - Eclipse](#)

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