Comprehensive process: Download and installation of OpenJava

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Check for Java

- 1.1. Launch the Command Prompt:
 - 1.1.1. Find the Windows search bar at the bottom left of your screen.
 - 1.1.2. Enter "CMD" into the search bar.
 - 1.1.3. Click "Command Prompt" in the search results to open it.
- 1.2. Execute the Java Version Command:
 - 1.2.1. In the Command Prompt window, type the following command: java -version
 - 1.2.2. Press the "Enter" key on your keyboard.
- 1.3. If the Command Prompt displays the following information, proceed to step 3 (Download and install Java).

Here's an example of what you might see:

'java' is not recognized as an internal or external command, operable program or batch file.

- 1.4. Review the Java Version Information:
 - 1.4.1. Command Prompt will display information about your Java installation.
 - 1.4.2. Look for lines that show the "java version," "Java (TM) SE Runtime Environment," and "Java HotSpot (TM) 64-Bit Server VM."

Here's an example of what you might see:

java version "23.0.2" 2025-01-21

Java(TM) SE Runtime Environment (build 23.0.2+7-58)

Java HotSpot(TM) 64-Bit Server VM (build 23.0.2+7-58, mixed mode, sharing)

- 1.5. Execute the Java Compiler Version Command:
 - 1.5.1. In the Command Prompt window, type the following command: javac -version
 - 1.5.2. Press the "Enter" key on your keyboard.

 Here's an example of what you might see:
 javac 23.0.2

Determine if Java is Up to Date:

- 1.6. If the version numbers match or are higher than the example above (23.0.2), your Java installation is current, and you do not need to install a new version.
- 1.7. If the version numbers are lower or mismatched without a valid business reason compared to the example, you may need to uninstall the current version of Java and install a newer one.
 - 1.7.1. Uninstall Java (If Necessary):
 - 1.7.1.1. Windows Settings
 - 1.7.1.1.1. Access "Settings"
 - 1.7.1.1.2. Click "Apps"
 - 1.7.1.1.3. Scroll down to find Java™ SE Development Kit
 - 1.7.1.1.4. Click the 3 dot (...) next to the file size
 - 1.7.1.1.5. Click "Uninstall"
 - 1.7.1.2. Access Java Uninstall Instructions:
 - 1.7.1.2.1. Open your web browser.
 - 1.7.1.2.2. Visit the official Java uninstall instructions page:

https://www.java.com/en/uninstall/uninstall instructions.html

- 1.7.1.2.3. Follow the steps provided on that page to uninstall your current version of Java.
- 1.7.1.3. Alternatively, use the Java Uninstall Tool:
 - 1.7.1.3.1. Visit the Java Uninstall Tool download page: https://www.java.com/en/download/uninstalltool.jsp
 - 1.7.1.3.2. Download the "JavaUninstallTool.exe" file.
 - 1.7.1.3.3. Run the downloaded tool and follow the on-screen instructions to uninstall Java.

Download and install Java:

The free and open-source version of Java under the GNU General Public License, version 2, with the Classpath Exception.

Option 1 – OpenJDK from Microsoft – winget install:

- 1. Open PowerShell
- 2. Type the command winget -v
- 3. If you see v1.10.340
- 4. Type the command winget search Microsoft.OpenJDK
- 5. Type the command winget install Microsoft.OpenJDK.21

Here's an example of what you might see:

Found Microsoft Build of OpenJDK 21 [Microsoft.OpenJDK.21]

This application is licensed to you by its owner.

Microsoft is not responsible for, nor does it grant any licences to, third-party packages.

Downloading https://aka.ms/download-jdk/microsoft-jdk-21.0.0-windows-x64.msi

160 MB / 160 MB

Successfully verified installer hash

Starting package install...

Successfully installed

- 6. Restart the system.
- 7. Once the system is back online, check the Java version described in step 1.

Option 2- OpenJDK from Microsoft - MSI install:

- 1. Open your web browser (like Chrome, Firefox, or Edge).
- 2. Visit the official OpenJDK website: https://learn.microsoft.com/en-us/java/openjdk/download
- 3. Click the microsoft-jdk-21.0.6-windows-x64.msi file from the list.
- 4. Download and save the file to the Downloads folder.
- 5. Double-click on the file to start the installation process.
- 6. Click the "Next" button on the Welcome screen
- 7. Check mark the box "I accept the terms in the License Agreement" once reading and comprehending.
- 8. Click the "Next" button on the End-User License Agreement screen.
- 9. Select "Install for all users of the machine" and click the "Next" button.
- 10. Click the dropdown arrow next to "Microsoft Build of OpenJDK and select the "Entire feature will be installed on local hard drive" option from the Custom Setup screen.
- 11. Click the "Install" button.
- 12. Click the "Finish" button to complete the installation.
- 13. Restart the system.
- 14. Once the system is back online, check the Java version described in step 1.

Option 3 – OpenJDK from https://jdk.java.net/:

- Access the OpenJDK Download Page:
 - 1.1. Open your web browser (like Chrome, Firefox, or Edge).

1.2. Visit the official OpenJDK website: https://jdk.java.net/

2. Select the Latest JDK Version:

- 2.1. On the webpage, you will see a section labeled "Ready for use:".
- 2.2. Locate and click on the most recent JDK version (e.g., "JDK 23"). (This action directs you to the specific download page.)

3. Choose Your Operating System:

- 3.1. Find the "Builds" section on the JDK download page.
- 3.2. Select the build that matches your computer's operating system. For example, if you use a 64-bit Windows computer, click "Windows/x64".
- 3.3. This will provide a zipped file link.
- 3.4. Click on the zipped file link (e.g., openjdk-23.0.2 windows-x64 bin.zip)

4. Save the Downloaded File:

- 4.1. Your browser will prompt you to save the file.
- 4.2. Choose a location on your computer where you can easily find it, such as your "Downloads" folder (e.g., C:\Users\[YourUsername]\Downloads).
- 4.3. Wait for the download to be completed.

5. Extract the Zipped File:

- 5.1. Once the download is finished, navigate to where you saved the zipped file.
- 5.2. Right-click on the zipped file (e.g., openjdk-23.0.2 windows-x64 bin.zip).
- 5.3. Select "Extract All..." from the context menu.
- 5.4. A window will pop up asking where to extract the files.
- 5.5. Change the destination to C:\Users\[YourUsername]\Downloads\openjdk-23.0.2_windows-x64_bin\.
- 5.6. Click "Extract".

6. Move the JDK Folder:

- 6.1. Navigate to the extracted folder in your downloads folder.
- 6.2. Right-click on the jdk-23.0.2 folder and select "Cut".
- 6.3. Open your "Program Files" folder (usually at C:\Program Files).
- 6.4. Create a new folder inside "Program Files" and name it "Java" (e.g., C:\Program Files\Java).
- 6.5. Open the "Java" folder and right-click, then select "Paste" to move the JDK folder into it.

7. Rename the JDK Folder:

- 7.1. Inside the "Java" folder, right-click on the jdk-23.0.2 folder.
- 7.2. Select "Rename".

- 7.3. Change the folder's name to "jdk-23" for simplicity (e.g., C:\Program Files\Java\jdk-23).
- 8. Copy the JDK's "bin" Folder Path:
 - 8.1. Open the "jdk-23" folder.
 - 8.2. Open the "bin" folder inside the "jdk-23" folder (e.g., C:\Program Files\Java\jdk-23\bin).
 - 8.3. Click on the address bar at the top of the File Explorer window to highlight the folder's path.
 - 8.4. Right-click and select "Copy" to copy the path.
- 9. Add the JDK to Your System's Path:
 - 9.1. Right-click on "This PC" (or "My Computer") on your desktop or in File Explorer.
 - 9.2. Select "Properties".
 - 9.3. Click on "Advanced system settings".
 - 9.4. In the "System Properties" window, click the "Environment Variables..." button.
 - 9.5. In the "Environment Variables" window, under "System variables", find the variable named "Path" and select it.
 - 9.6. Click the "Edit..." button.
 - 9.7. Click "New"
 - 9.8. Paste the path you copied earlier (e.g., C:\Program Files\Java\jdk-23\bin).
 - 9.9. Click "OK" on all open windows to save the changes.

10. Create JAVA HOME

- 10.1. Click the "New..." button under "System variables",
- 10.2. For "Variable name:" type JAVA HOME
- 10.3. For "Variable value:" paste the path C:\Program Files\Java\jdk-23
- 10.4. Click "OK" on all open windows to save the changes.
- 10.5. Restart the system.
- 10.6. Once the system is back online, check the Java version described in step

1.