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Guided Lab - 303.1.1A - Installation Guide for JDK

Introduction:

In this lab, we will demonstrate how to install JDK on Windows OS and MacOS.

The Java Development Kit (JDK) is helpful for writing programs in Java. It is also known as the **Java Platform Standard Edition (Java SE)**. JDK is an open-source software provided by Sun Microsystems, now taken over by Oracle for anyone to use freely for programming.

Lab Objective:

By the end of this lab, learners should be able install Install JDK

Installation Prerequisites of JDK

JDK has bare minimum requirements for disk space and RAM for the 64-bit Windows platform. It requires approximately 800 MB disk space to install JDK, as JRE also gets installed along with it.

JDK requires 128 MB of memory space to run successfully. This is the minimum RAM required for running basic and small programs, but as the size of an application increases, the memory requirement also increases for the application to run smoothly.

Instructions

## Install JDK for Windows OS

[Click here for Download Amazon Corretto 8 or later version](#)

1. Download a .msi file from the **Downloads** page.

   For Windows operating systems (64-bit), choose to download the installer program (MSI) for JDK:

Platform	Type	Download Link
Windows x64	JDK	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-windows-jdk.msi
		https://corretto.aws/downloads/latest/amazon-corretto-8-x64-windows-jdk.zip
	JRE	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-windows-jre.zip
Windows x86	JDK	https://corretto.aws/downloads/latest/amazon-corretto-8-x86-windows-jdk.msi
		https://corretto.aws/downloads/latest/amazon-corretto-8-x86-windows-jdk.zip
	JRE	https://corretto.aws/downloads/latest/amazon-corretto-8-x86-windows-jre.zip

2. It will download the **amazon-corretto-VERSION-windows-x64.msi** file. This is the installer program for Windows, which makes the setup process quick and easy.
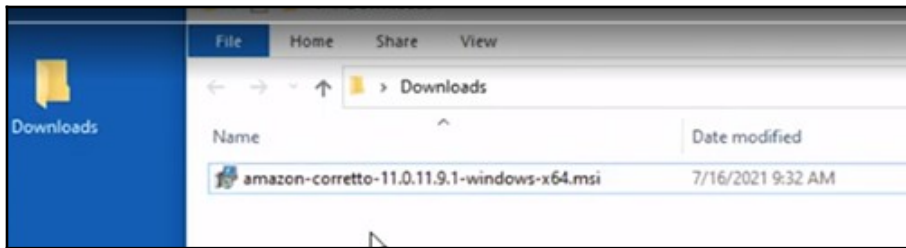
3. Double-click the **.msi** file to start the installation wizard.

4. Click on the **Next button**, and keep the default options presented below:
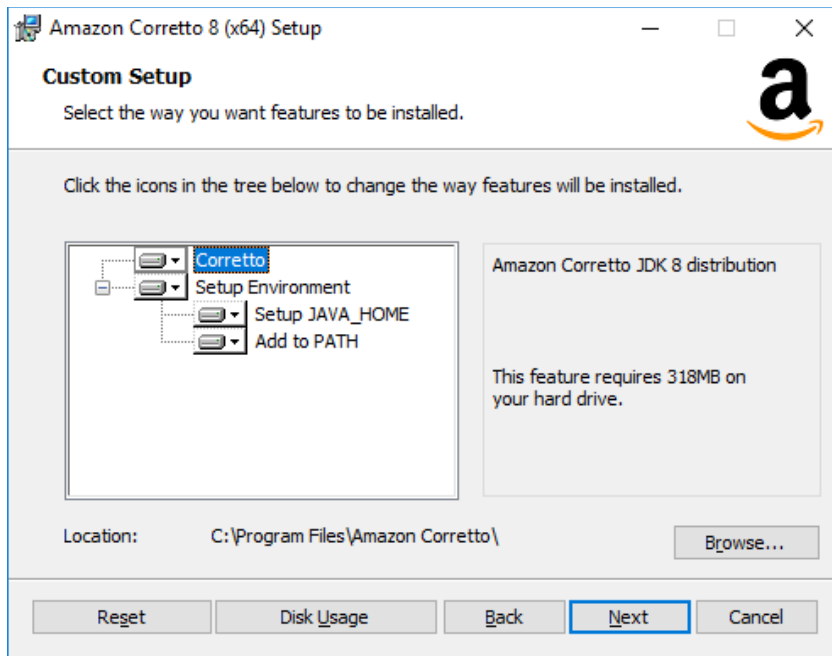
5. Click on the **Install** button.

6: After a successful installation, verify the version of your Java by opening the command prompt. Type the code below:

java -version

```
Command Prompt

Microsoft Windows [Version 10.0.17763.1577]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\PSAdmin>java -version
openjdk version "1.8.0_282"
OpenJDK Runtime Environment Corretto-8.282.08.1 (build 1.8.0_282-b08)
OpenJDK 64-Bit Server VM Corretto-8.282.08.1 (build 25.282-b08, mixed mode)

C:\Users\PSAdmin>
```
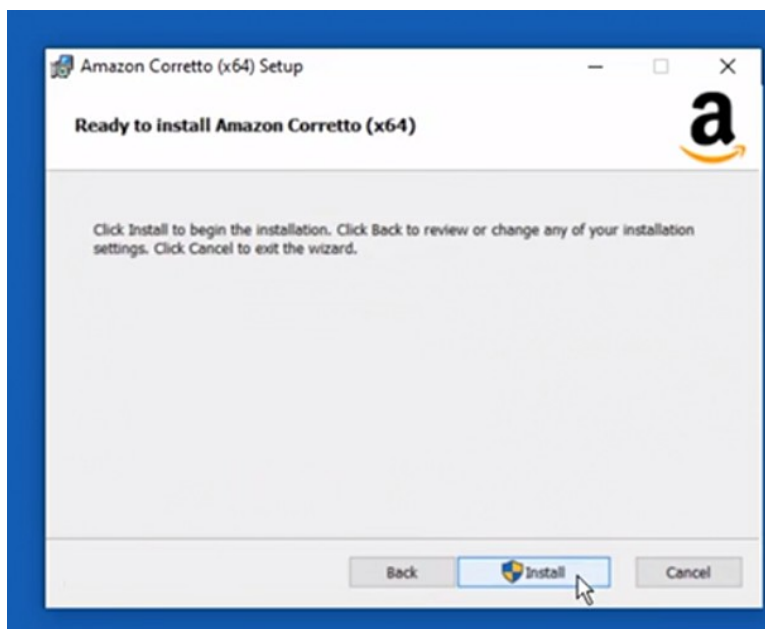
Install JDK on MacOC

macOS 10.10 or later

1. Download the **Mac.pkg** file from the Downloads page.

2. Double-click the downloaded file to start the installation wizard. Follow the steps in the wizard.

3. Once the wizard completes, Amazon Corretto 8 will be installed in ***/Library/Java/JavaVirtualMachines/.***

4. You can run the following command in a terminal to get the complete installation path: ***/usr/libexec/java_home --verbose***

5. Optionally, run the following commands in the terminal to set the JAVA_HOME variable:

   a. ***export JAVA_HOME=/Library/Java/JavaVirtualMachines/amazon-corretto-8.jdk/Contents/Home***

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Additional Resources - Video

Video - How To Install Amazon Corretto JDK 11 On a Mac.

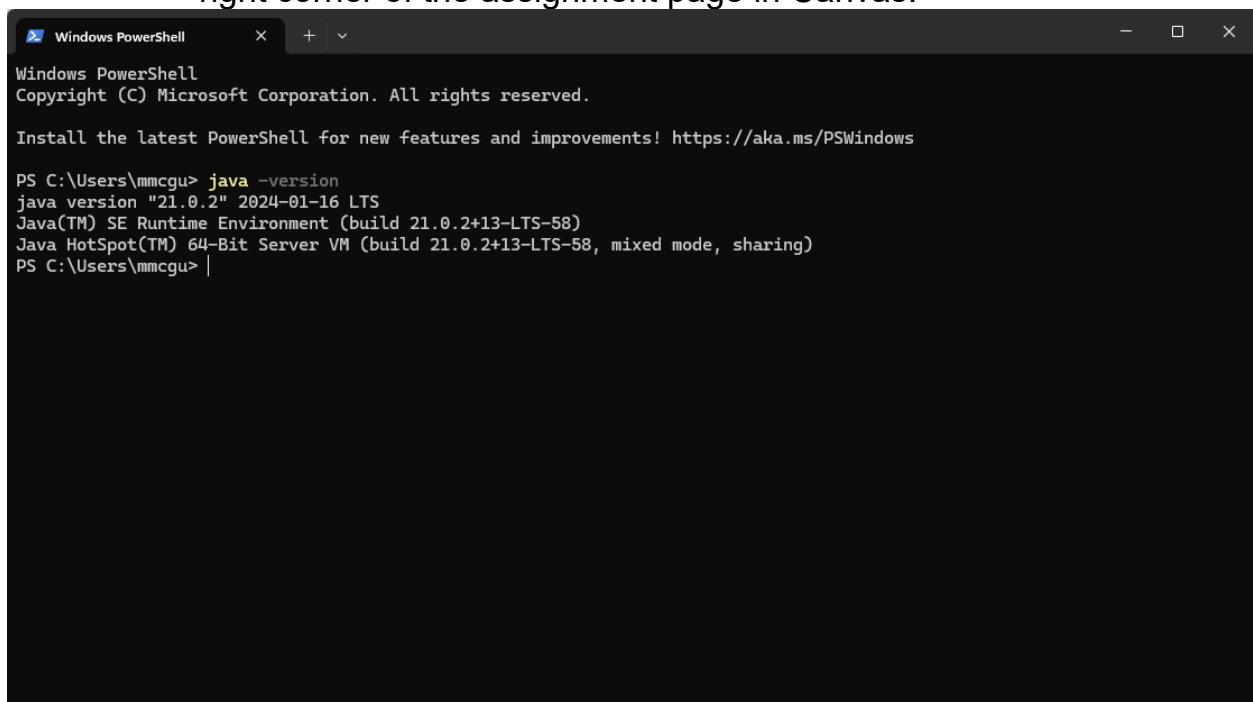**Video - How to Install JDK 11 for Amazon Corretto for Windows**.

Resources:

https://docs.aws.amazon.com/corretto/latest/corretto-8-ug/what-is-corretto-8.html

https://www.educba.com/install-jdk/

Submission Instructions:

Include the following deliverables in your submission -
   ○ Take a screenshot of the installed JDK folder or the version
     command result (reference step 6).
   ○ Submit the screenshot using the Start Assignment button in the top-
     right corner of the assignment page in Canvas.

```
Windows PowerShell                                    ×        +    ∨

Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\mmcgu> java -version
java version "21.0.2" 2024-01-16 LTS
Java(TM) SE Runtime Environment (build 21.0.2+13-LTS-58)
Java HotSpot(TM) 64-Bit Server VM (build 21.0.2+13-LTS-58, mixed mode, sharing)
PS C:\Users\mmcgu> |
```