Practical: Installation of Java on Unix/Linux Machine (Without VirtualBox)

**This guide uses WSL (Windows Subsystem for Linux) to simulate a Linux environment directly on Windows.**

Step 1: Enable WSL

1. Open PowerShell as Administrator
2. Run the following command:

wsl --install

1. Restart your computer when prompted.
2. After restart, choose Ubuntu or install it from the Microsoft Store.

Step 2: Open Ubuntu (WSL)- Search for 'Ubuntu' in Start Menu and open it.- It will initialize and ask for a username and password.

Step 3: Update the Package List Run the following command:

sudo apt update

Step 4: Install Java (OpenJDK 8 or 11)- For Java 8: sudo apt install openjdk-8-jdk -y- For Java 11: sudo apt install openjdk-11-jdk -y

Step 5: Verify Java Installation Run:

java -version Expected output:

openjdk version "1.8.0\_xxx" ...

Step 6: Set JAVA\_HOME Environment Variable (Optional)

1. Open .bashrc file: nano ~/.bashrc
2. Add the following lines at the end:

export JAVA\_HOME=/usr/lib/jvm/java-8-openjdk-amd64 export PATH=$JAVA\_HOME/bin:$PATH

1. Save and exit (Ctrl+X, then Y, then Enter)
2. Reload bashrc:

source ~/.bashrc

1. Verify JAVA\_HOME is set:

echo $JAVA\_HOME

You now have Java installed on a Linux system simulated within Windows without using VirtualBox

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