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 3. Restart your computer when prompted. 4. 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

- 3. Save and exit (Ctrl+X, then Y, then Enter)
- 4. Reload bashrc:

source ~/.bashrc

5. 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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Provisioning the new WSL instance Ubuntu
This might take a while...
Create a default Unix user account: Mnizwi
Retype new password:
Retype new password:
Retype new password:
Retype new password updated successfully
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo, root" for details.

Welcome to Ubuntu 24,04.3 LTS (CMU/Linux 6.6.87.2-microsoft-standard-WSL2 x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.camonical.com
* Management: https://landscape.camonical.com
* System information as of Mon Aug 11 06:20:30 UTC 2025

System load: 0.0 Processes: 32
Usage of '0.0.1% of 1006.85GB Users logged in: 0
Memory usage: 11%
Milliance of Mnick Unit M
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