## 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

VirtualBox

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

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Provisioning the new WSL instance Ubuntu
This sight takes a while.

Create a default Unix user account: Mnixwi
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 "ann sudo_noot" for details.

Welcome to Ubuntu 24.04.3 LTS (CMU/Linux 6.6.87.2-microsoft-standard-WSL2 x86_64)

* Documentation: https://halp.ubuntu.com
* Nunagement: https://halp.ubuntu.com/som
* Support: https://ubuntu.com/gro

System information as of Mon Aug 11 06:20:30 UTC 2025

System load: 0.0 Processes: 32

Usage of 7. 0.1% of 1906.8560 Users logged in: 0
Memory usage: 1%

This message is shown once a day. To disable it please create the home (madu/hubihogin file.
MnaudupErstro-HutyBoul:-5 sudo apt update
[sudo] password for mmdu:
Htt:1 http://archive.ubuntu.com/ubuntu noble—security InRelease
[Get:2 http://security.ubuntu.com/ubuntu noble—security/minagements [21.6 kB]
Get:3 http://security.ubuntu.com/ubuntu noble—security/minagements [22.6 kB]
Get:4 http://security.ubuntu.com/ubuntu noble—security/minagements [22.6 kB]
Get:5 http://security.ubuntu.com/ubuntu noble—security/minagements [22.8 kB]
Get:1 http://security.ubuntu.com/ubuntu noble—security/minagements [22.8 k
```



