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

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

PS C:\Users\rajba> wsl
hirdent@LAPTOP-SWT8QV2G:/mnt/c/Users/rajba$ sudo apt update
[sudo] password for hirdent:
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Get:2 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://security.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
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Get:6 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [183 kB]
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## See apt-security.

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