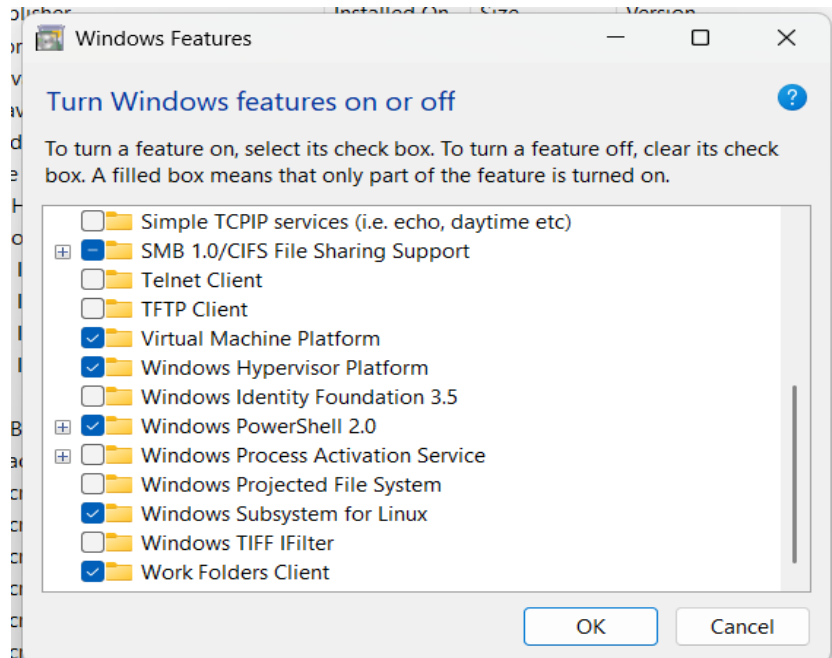


AIM: Installation of Java on Unix/Linux Machine (Without Virtual Box)

Step 1:

Enable WSL (Windows Sub System for Linux) from Control Panel



Step 2: Power Shell (Run As Administrator)

Command: wsl --install

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\WINDOWS\system32> wsl --install
Downloading: Windows Subsystem for Linux 2.5.10
Installing: Windows Subsystem for Linux 2.5.10
Windows Subsystem for Linux 2.5.10 has been installed.
The operation completed successfully.
Downloading: Ubuntu
[===== 16.5% ]
```

Step 3: Package Update

Command: sudo apt update

```
gautamkr@GOPU: ~  
gautamkr@GOPU:~$ sudo apt update  
[sudo] password for gautamkr:  
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease  
Get:2 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]  
Get:3 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]  
Get:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]  
Get:5 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]  
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.6 kB]  
Get:7 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [878 kB]  
Get:8 http://archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]  
Get:9 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [194 kB]  
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]  
Get:11 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [17.0 kB]  
Get:12 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]  
Get:13 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [18.5 kB]  
Get:14 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [4288 B]  
Get:15 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]  
Get:16 http://archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [380 B]  
Get:17 http://archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]  
Get:18 http://archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]  
Get:19 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]  
5% [18 Translation-en store 0 B] [Waiting for headers]  
Get:21 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]  
Get:22 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]  
Get:23 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1313 kB]  
Get:24 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [163 kB]  
Get:25 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1120 kB]  
Get:26 http://archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [287 kB]  
Get:27 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [377 kB]  
Get:28 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [26.0 kB]  
Get:29 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]  
Get:30 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [35.2 kB]  
Get:31 http://archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [6772 B]  
Get:32 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]  
Get:33 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [592 B]  
Get:34 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Packages [39.9 kB]  
Get:35 http://archive.ubuntu.com/ubuntu noble-backports/main Translation-en [9152 B]  
Get:36 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7076 B]  
Get:37 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [272 B]  
Get:38 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [28.9 kB]  
Get:39 http://archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [17.4 kB]  
Get:40 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [30.8 kB]  
Get:41 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1304 B]  
Get:42 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]  
Get:43 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]  
Get:44 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]  
Get:45 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]  
Fetched 30.7 MB in 19s (1647 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
All packages are up to date.  
gautamkr@GOPU:~$
```

Step 4: Java Installation

Command: sudo apt install openjdk-11-jdk -y

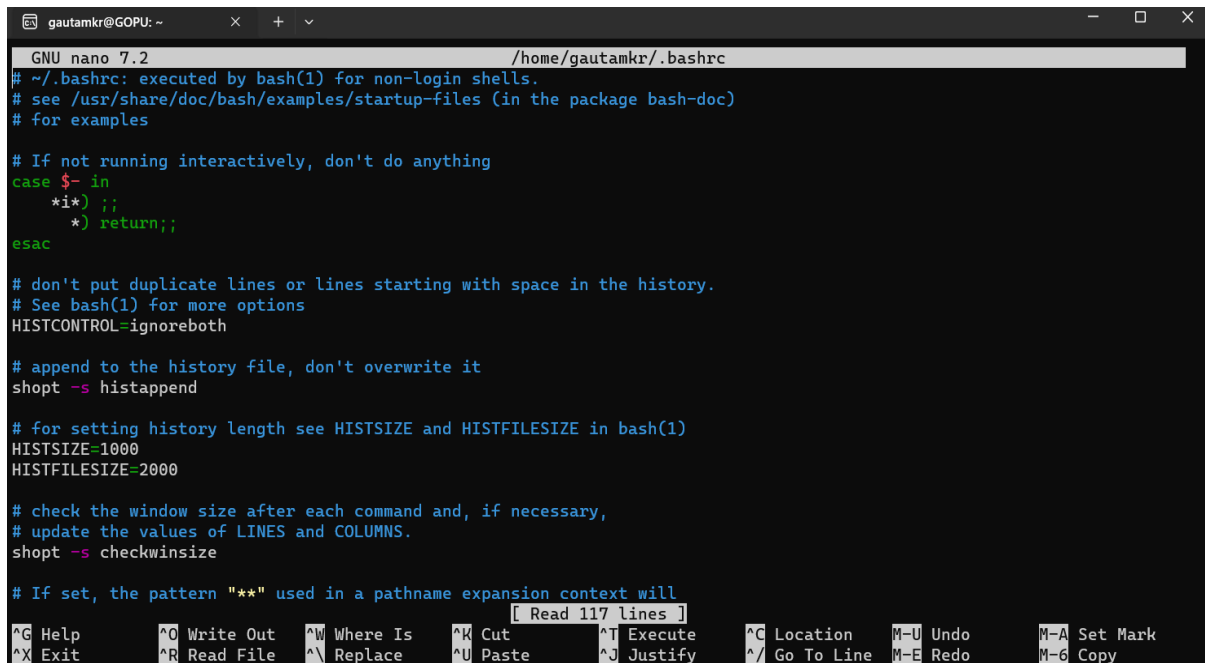
```
gautamkr@GOPU:~$ sudo apt install openjdk-8-jdk-y  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
E: Unable to locate package openjdk-8-jdk-y  
gautamkr@GOPU:~$
```

Step 5: Verify Java Installation

Command: java -version

```
gautamkr@GOPU:~$ java -version  
openjdk version "11.0.28" 2025-07-15  
OpenJDK Runtime Environment (build 11.0.28+6-post-Ubuntu-1ubuntu124.04.1)  
OpenJDK 64-Bit Server VM (build 11.0.28+6-post-Ubuntu-1ubuntu124.04.1, mixed mode, sharing)  
gautamkr@GOPU:~$
```

Step 6: Set JAVA_HOME Environment Variable



```
GNU nano 7.2 /home/gautamkr/.bashrc
# ~/.bashrc: executed by bash(1) for non-login shells.
# see /usr/share/doc/bash/examples/startup-files (in the package bash-doc)
# for examples

# If not running interactively, don't do anything
case $- in
  *i*) ;;
  *) return;;
esac

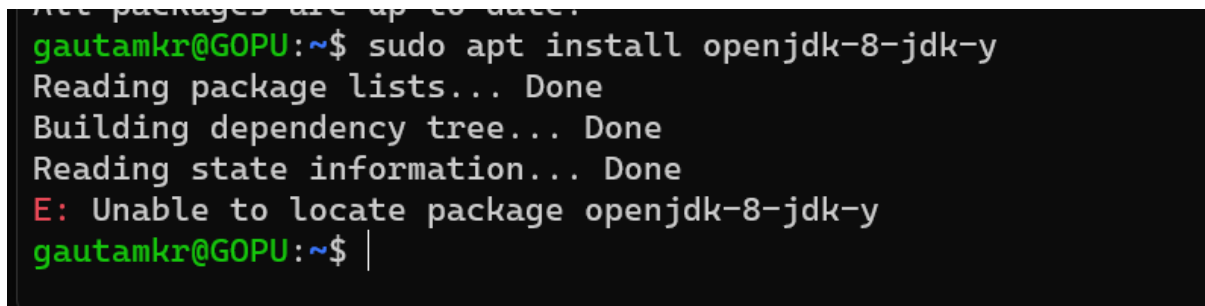
# don't put duplicate lines or lines starting with space in the history.
# See bash(1) for more options
HISTCONTROL=ignoreboth

# append to the history file, don't overwrite it
shopt -s histappend

# for setting history length see HISTSIZE and HISTFILESIZE in bash(1)
HISTSIZE=1000
HISTFILESIZE=2000

# check the window size after each command and, if necessary,
# update the values of LINES and COLUMNS.
shopt -s checkwinsize

# If set, the pattern "*" used in a pathname expansion context will
[ Read 117 lines ]
^G Help      ^O Write Out  ^W Where Is   ^R Cut        ^T Execute    ^C Location   M-U Undo      M-A Set Mark
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line  M-E Redo      M-6 Copy
```



```
gautamkr@GOPU:~$ sudo apt install openjdk-8-jdk-y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package openjdk-8-jdk-y
gautamkr@GOPU:~$
```