

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

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

PS C:\WINDOWS\system32> wsl --install
Downloading: Ubuntu
[ 0.1% ]
```

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

PS C:\WINDOWS\system32> wsl --version
WSL version: 2.5.10.0
Kernel version: 6.6.87.2-1
WSLg version: 1.0.66
MSRDC version: 1.2.6074
Direct3D version: 1.611.1-81528511
DXCore version: 10.0.26100.1-240331-1435.ge-release
Windows version: 10.0.26100.4652
PS C:\WINDOWS\system32> _
```

```
@ supriya_03@supriya003: ~
This might take a while...
Create a default Unix user account: supriya_03
New password:
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: password unchanged
Try again? [y/N] y
New password:
Retype new password:
passwd: 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 (GNU/Linux 6.6.87.2-microsoft-standard-WSL2 x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Mon Aug 11 15:08:49 UTC 2025

System load:  0.09          Processes:            31
Usage of /:   0.1% of 1006.85GB Users logged in:        0
Memory usage: 9%           IPv4 address for eth0: 172.17.102.178
Swap usage:   0%
```

```

supriya_03@Supriya003:~$ sudo apt clean
supriya_03@Supriya003:~$ sudo apt update
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1315 kB]
Ign:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages
Get:6 http://archive.ubuntu.com/ubuntu noble-updates/main Translation-en [264 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [163 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1120 kB]
Ign:8 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages
Get:9 http://archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [287 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [377 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [26.0 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [1650 kB]
Ign:12 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [361 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [33.2 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [6772 B]
Get:17 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:18 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [592 B]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1315 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1120 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [1650 kB]
Fetched 5731 kB in 1min 37s (58.8 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.

```

```

supriya_03@Supriya003:~$ sudo apt install openjdk-11-jdk -y --fix-missing
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  alsa-topology-conf alsa-ucm-conf ca-certificates-java
  fonts-dejavu-extra java-common libasound2-data libasound2t64
  libatk-wrapper-java libatk-wrapper-java-jni libgif7
  libice-dev libice6 libnspr4 libnss3 libpcsclite1
  libpthread-stubs0-dev libsm-dev libsm6 libx11-dev libxau-dev
  libxaw7 libxcb-shape0 libxcb1-dev libxdmcp-dev libxft2
  libxkbfile1 libxmu6 libxpm4 libxt-dev libxt6t64 libxv1
  libxxf86dga1 openjdk-11-jdk-headless openjdk-11-jre
  openjdk-11-jre-headless x11-utils x11proto-dev
  xorg-sgml-doctools xtrans-dev
Suggested packages:
  default-jre alsa-utils libasound2-plugins libice-doc pscd
  libsm-doc libx11-doc libxcb-doc libxt-doc openjdk-11-demo
  openjdk-11-source visualvm libnss-mdns fonts-ipafont-gothic
  fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei
  fonts-indic mesa-utils
Recommended packages:
  luit
The following NEW packages will be installed:
  alsa-topology-conf alsa-ucm-conf ca-certificates-java
  fonts-dejavu-extra java-common libasound2-data libasound2t64
  libatk-wrapper-java libatk-wrapper-java-jni libgif7
  libice-dev libice6 libnspr4 libnss3 libpcsclite1
  libpthread-stubs0-dev libsm-dev libsm6 libx11-dev libxau-dev
  libxaw7 libxcb-shape0 libxcb1-dev libxdmcp-dev libxft2

```

```
supriya_03@Supriya003:~$ java -version
openjdk version "11.0.28" 2025-07-15
OpenJDK Runtime Environment (build 11.0.28+6-post-Ubuntu-1ubuntu
124.04.1)
OpenJDK 64-Bit Server VM (build 11.0.28+6-post-Ubuntu-1ubuntu124
.04.1, mixed mode, sharing)
supriya_03@Supriya003:~$ nano ~/.bashrc
```

```
supriya_03@Supriya003:~$ source ~/.bashrc
supriya_03@Supriya003:~$ echo $JAVA_HOME
/usr/lib/jvm/java-11-openjdk-amd64
supriya_03@Supriya003:~$
```