

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

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sus@ASUS-VIVOB00K16: /mnt/d
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
PS C:\WINDOWS\system32> cd D:\3%
PS D:\> wsl --install
Downloading: Ubuntu
Installing: Ubuntu
Distribution successfully installed. It can be launched via 'wsl.exe -d Ubuntu'
Launching Ubuntu...
Provisioning the new WSL instance Ubuntu
This might take a while...
Create a default Unix user account: sus
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.

sus@ASUS-VIVOB00K16: /mnt/d$
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sus@ASUS-VIVOB00K16: ~
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

sus@ASUS-VIVOB00K16:~$ sudo apt update
[sudo] password for sus:
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.6 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [878 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [194 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [17.0 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:12 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [18.5 kB]
Get:13 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [4288 B]
Get:14 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:15 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [380 B]
Get:16 http://archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
54% [7 Packages store 0 B] [16 Translation-en 49 B/5982 kB 0%] 2552 kB/s 6s|
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sus@ASUS-VIVOB00K16: ~
Get:45 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:46 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:47 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:48 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Fetched 32.9 MB in 11s (3014 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
sus@ASUS-VIVOB00K16:~$ sudo apt install openjdk-11-jdk -y
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 pcsd 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
  libxkbfile1 libxmu6 libxpm4 libxt-dev libxt6t64 libxv1 libxxf86dga1 openjdk-11-jdk openjdk-11-jdk-headless

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sus@ASUS-VIVOB00K16:~$ 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)
sus@ASUS-VIVOB00K16:~$ nano ~/.bashrc
sus@ASUS-VIVOB00K16:~$ source ~/.bashrc
sus@ASUS-VIVOB00K16:~$ echo $JAVA_HOME
/usr/lib/jvm/java-8-openjdk-amd64
sus@ASUS-VIVOB00K16:~$ |

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