

# Java installation in linux

```
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
[=====75.9%=====]
```

```
ankur_2006@DELL-INSPIRON15:/mnt/d
At line:1 char:1
+ D:\>
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (D:\:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\> D:\
D:\ : The term 'D:\' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ D:\>
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (D:\:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\> cd D:
PS D:\> wsl --install
Downloading: Ubuntu
Installing: Ubuntu
A distribution with the supplied name already exists. Use --name to chose a different name.
Error code: Wsl/InstallDistro/Service/RegisterDistro/ERROR_ALREADY_EXISTS
PS D:\> wsl -i -v
>>
+ NAME      STATE      VERSION
+ ~~~~~
+ Ubuntu    Stopped    2
PS D:\>
PS D:\> wsl -d Ubuntu
>>
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 5.15.167.4-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 14:34:15 UTC 2025

System load: 1.27          Processes:    59
Usage of /:  0.1% of 1006.85GB   Users logged in: 0
Memory usage: 12%            IPVA address for eth0: 172.25.188.202
Swap usage:  0%

This message is shown once a day. To disable it please create the
/home/ankur_2006/.hushlogin file.
ankur_2006@DELL-INSPIRON15:/mnt/d$
ankur_2006@DELL-INSPIRON15:/mnt/d$
```

```

ankur_2006@DELL-INSPIRON15:/mnt/d$ sudo apt update
[sudo] password for ankur_2006:
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 Packages [1054 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [183 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.6 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [7068 B]
Get:8 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [878 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [194 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]
Get:12 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [17.0 kB]
Get:13 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [1560 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [342 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:16 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:17 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [468 B]
Get:18 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [18.5 kB]
Get:19 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [4288 B]
Get:20 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:21 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [380 B]
Get:22 http://archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:23 http://archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:24 http://archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:25 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:26 http://archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:27 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]

```

```

ankur_2006@DELL-INSPIRON15:/mnt/d$ sudo apt install openjdk-8-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 libasynccs0 libatk-wrapper-java libatk-wrapper-java-jni libflac12t64 libgall-common
  libgall18t64 libgif7 libgtk2.0-0t64 libgtk2.0-bin libgtk2.0-common libice-dev libice6 libmp3lame0 libmpeg2-0t64 libnspr4 libnss3 libogg0 libopus0 libpcsc-lite1 libpthread-stubs0-dev libpulse0 libsm-dev
  libsm6 libsndffile1 libvorbis0a libvorbisenc2 libx11-dev libxau-dev libxaw7 libxcb-shape0 libxcb1-dev libxdmcp-dev libxft2 libxkbfile1 libxmu6 libxpm4 libxt-dev libxt6t64 libxv1 libxxf86dga1
  openjdk-8-jdk-headless openjdk-8-jre openjdk-8-jre-headless x11-utils x11proto-dev xorg-sgml-doctools xtrans-dev
Suggested packages:
  default-jre alsa-utils libasound2-plugins gvfs libice-doc opus-tools pcsd pulseaudio libsm-doc libx11-doc libxcb-doc libxt-doc openjdk-8-demo openjdk-8-source visualvm libnss-mdns fonts-urw
  fonts-ipafont-gothic fonts-ipafont-mincho fonts-way-microhei fonts-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 libasynccs0 libatk-wrapper-java libatk-wrapper-java-jni libflac12t64 libgall-common
  libgall18t64 libgif7 libgtk2.0-0t64 libgtk2.0-bin libgtk2.0-common libice-dev libice6 libmp3lame0 libmpeg2-0t64 libnspr4 libnss3 libogg0 libopus0 libpcsc-lite1 libpthread-stubs0-dev libpulse0 libsm-dev
  libsm6 libsndffile1 libvorbis0a libvorbisenc2 libx11-dev libxau-dev libxaw7 libxcb-shape0 libxcb1-dev libxdmcp-dev libxft2 libxkbfile1 libxmu6 libxpm4 libxt-dev libxt6t64 libxv1 libxxf86dga1 openjdk-8-jdk
  openjdk-8-jdk-headless openjdk-8-jre openjdk-8-jre-headless x11-utils x11proto-dev xorg-sgml-doctools xtrans-dev
0 upgraded, 55 newly installed, 0 to remove and 157 not upgraded.
Need to get 54.4 MB of archives.
After this operation, 183 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/main amd64 alsa-topology-conf all 1.2.5.1-2 [15.5 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libasound2-data all 1.2.11-1ubuntu0.1 [21.1 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libasound2t64 amd64 1.2.11-1ubuntu0.1 [399 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 alsa-ucm-conf all 1.2.10-1ubuntu5.7 [66.4 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble/main amd64 ca-certificates-java all 20240118 [11.6 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/main amd64 fonts-dejavu-extra all 2.37-8 [1947 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble/main amd64 java-common all 0.75+exp1 [6790 B]
Get:8 http://archive.ubuntu.com/ubuntu noble/main amd64 libasynccs0 amd64 0.8-6build4 [11.3 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble/main amd64 libice6 amd64 2:1.0.10-1build3 [41.4 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble/main amd64 libsm6 amd64 2:1.2.3-1build3 [15.7 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble/main amd64 libxt6t64 amd64 1:1.2.1-1.2build1 [171 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble/main amd64 libxmu6 amd64 2:1.1.3-3build2 [47.6 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble/main amd64 libxpm4 amd64 1:3.5.17-1build2 [36.5 kB]

```

```

ankur_2006@DELL-INSPIRON15:/mnt/d$ java --version
openjdk 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)
ankur_2006@DELL-INSPIRON15:/mnt/d$

```

```
ankur_2006@DELL-INSPIRON15:/mnt/d
GNU nano 7.2 /home/ankur_2006/./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
# match all files and zero or more directories and subdirectories.
shopt -s globstar

# make less more friendly for non-text input files, see lesspipe(1)
[ -x /usr/bin/lesspipe ] && eval "$(SHELL=/bin/sh lesspipe)"

# set variable identifying the chroot you work in (used in the prompt below)
[[ $- == *$debian_chroot || $- == */etc/debian_chroot ]] && then

[ Read 128 lines ]
[ Help Exit Write Out Where Is Cut Execute Location Go To Line Undo Redo Set Mark Copy To Bracket Previous Next Back Forward Prev Word Next Word ]
[ Light rain Tomorrow ] [ Search ] [ ENG INTL ] [ 20:36 11-08-2025 ]
```

```
ankur_2006@DELL-INSPIRON15:/mnt/d$ export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
ankur_2006@DELL-INSPIRON15:/mnt/d$ export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
ankur_2006@DELL-INSPIRON15:/mnt/d$
```

```
ankur_2006@DELL-INSPIRON15:/mnt/d$ echo $JAVA_HOME
/usr/lib/jvm/java-8-openjdk-amd64
ankur_2006@DELL-INSPIRON15:/mnt/d$ export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
ankur_2006@DELL-INSPIRON15:/mnt/d$ export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
ankur_2006@DELL-INSPIRON15:/mnt/d$ export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
ankur_2006@DELL-INSPIRON15:/mnt/d$ export PATH=$JAVA_HOME/bin:$PATH
ankur_2006@DELL-INSPIRON15:/mnt/d$ java --version
Unrecognized option: --version
Error: Could not create the Java Virtual Machine.
Error: A fatal exception has occurred. Program will exit.
ankur_2006@DELL-INSPIRON15:/mnt/d$ java -version
openjdk version "1.8.0_462"
OpenJDK Runtime Environment (build 1.8.0_462-8u462-ga~us1-0ubuntu2~24.04.2-b08)
OpenJDK 64-Bit Server VM (build 25.462-b08, mixed mode)
ankur_2006@DELL-INSPIRON15:/mnt/d$
```

```
ankur_2006@DELL-INSPIRON15:/mnt/d$ java -version
openjdk version "1.8.0_462"
OpenJDK Runtime Environment (build 1.8.0_462-8u462-ga~us1-0ubuntu2~24.04.2-b08)
OpenJDK 64-Bit Server VM (build 25.462-b08, mixed mode)
ankur_2006@DELL-INSPIRON15:/mnt/d$ source ~/.bashrc
ankur_2006@DELL-INSPIRON15:/mnt/d$ echo $JAVA_HOME
/usr/lib/jvm/java-8-openjdk-amd64
ankur_2006@DELL-INSPIRON15:/mnt/d$
```