

# Java Installation on Linux (WSL) - Command Descriptions

## ***wsl --install***

Installs Windows Subsystem for Linux (WSL) along with the default Linux distribution (Ubuntu if not specified). Enables Linux to run natively inside Windows without VirtualBox/VMware. Run in PowerShell as Administrator.

## ***sudo apt update***

Updates the package index on Ubuntu so you can download the latest versions of software. Connects to Ubuntu's repository servers and fetches the latest list of available packages.

## ***sudo apt install openjdk-8-jdk -y***

Installs the Java Development Kit (JDK) version 8, including compiler (javac) and runtime (java). The -y flag automatically confirms the installation without prompting.

## ***sudo apt install openjdk-11-jdk -y***

Installs Java Development Kit (JDK) version 11. Similar to the above, but for version 11.

## ***java -version***

Checks if Java is installed and shows the installed version along with build details.

## ***nano ~/.bashrc***

Opens the .bashrc file in the Nano text editor. This file contains shell configuration commands that run every time you start a terminal.

## ***export JAVA\_HOME=/usr/lib/jvm/java-8-openjdk-amd64***

Defines the Java installation directory path as an environment variable JAVA\_HOME, allowing applications to locate Java.

## ***export PATH=\$JAVA\_HOME/bin:\$PATH***

Adds Java's bin directory to your PATH, enabling you to run Java commands like java and javac from anywhere without specifying the full path.

## ***source ~/.bashrc***

Reloads the .bashrc file so that changes to environment variables take effect immediately without restarting the terminal.

## ***echo \$JAVA\_HOME***

Prints the current value of the JAVA\_HOME environment variable to confirm it's set correctly.