Wsl:

Display a list of available Linux distros by entering:

```
PS C:\Users\Administrator> wsl --list --online
The following is a list of valid distributions that can be installed.
[nstall using 'wsl.exe --install <Distro>'.
JAME
                                FRIENDLY NAME
Jbunt u
                                Ubuntu
ebian)
                                Debian GNU/Linux
kali-linux
                                Kali Linux Rolling
Jbuntu-18.04
                                Ubuntu 18.04 LTS
Jbuntu-20.04
                                Ubuntu 20.04 LTS
                                Ubuntu 22.04 LTS
Jbuntu-22.04
Jbuntu-24.04
                               Ubuntu 24.04 LTS
raclelinux 7 9
                               Oracle Linux 7.9
DracleLinux_8_7
                               Oracle Linux 8.7
                               Oracle Linux 9.1
raclelinux 9 1
ppenSUSE-Leap-15.6
                                openSUSE Leap 15.6
SUSE-Linux-Enterprise-15-SP5
                               SUSE Linux Enterprise 15 SP5
SUSE-Linux-Enterprise-15-SP6
                                SUSE Linux Enterprise 15 SP6
penSUSE-Tumbleweed
                                openSUSE Tumbleweed
```

To install a specific distro by name, such as Debian, enter:

```
PS C:\Users\Administrator> wsl --install -d Debian
Installing: Debian GNU/Linux
Debian GNU/Linux has been installed.
Launching Debian GNU/Linux...
Installing, this may take a few minutes...
Please create a default UNIX user account. The username does not need t
o match your Windows username.
For more information visit: https://aka.ms/wslusers
Enter new UNIX username: jithu
New password:
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: password unchanged
Try again? [y/N] y
                                  Activate Windows
New password:
Retype new password:
passwd: password updated successfully to Settings to activate Windows.
Installation successful!
```

Update Linux:

```
jith123@a6cf8aee28ce504:~$ sudo apt upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following package was automatically installed and is no longer required:
    libllvm17t64
Jse 'sudo apt autoremove' to remove it. vate Windows
The following upgrades have been deferred due to phasing:
    libunwind8 wsl-setup
O upgraded, O newly installed, O to remove and 2 not upgraded.
```

Switch Between WSL1 and WSL2:

```
PS C:\Users\Administrator> wsl --update
Checking for updates.
The most recent version of Windows Subsystem for Linux is a
lled.
PS C:\Users\Administrator> wsl --list --verbose
NAME STATE AVERSIONE Windows
* docker-desktop Stopped G2 to Settings to activate \
Debian Stopped G2 to Settings to activate \
Ubuntu Running 2
```

Set a Default Linux Distribution:

```
PS C:\Users\Administrator> mkdir D:\backup

Directory: D:\

Mode LastWriteTime Length Name
---- 04-02-2025 14:32 backup
```

Set a Default Linux Distribution:

```
PS C:\Users\Administrator> wsl --list
Windows Subsystem for Linux Distributionsate
docker-desktop (Default)
Go to Set
Ubuntu
```

Default:

```
PS C:\Users\Administrator> wsl --setdeFault Ubuntu accuracy
The operation completed successfully.
```

Run Linux as a Specific User:

```
PS C:\Users\Administrator> wsl --user jith123
jith123@a6cf8aee28ce504:/mnt/c/Users940m16IIM98t0P$
```

```
PS C:\Users\Administrator> wsl --settleFault "Ubuntu """" "
The operation completed successfully.
```

Move or Clone Your Linux Disk Image:

r. To revert to your own account, enter the following command:

```
PS C:\Users\Administrator> <mark>ubuntu c</mark>onfig --default-user jith123
PS C:\Users\Administrator> _
```

Define a user by logging on to the distro and creating/editing /etc/wsl.conf:

```
root@a6cf8aee28ce504:~# touch /etc/wsl.conf
l.confroot@a6cf8aee28ce504:~# nano /etc/wsl.conf
root@a6cf8aee28ce504:~# nano /etc/wsl.conf
root@a6cf8aee28ce504:~#
```

restart the distro in a Powershell terminal with:

```
PS C:\Users\Administrator> wsl --terminate ubuntu
The operation completed successfully.
```

Access Linux Files from Windows:

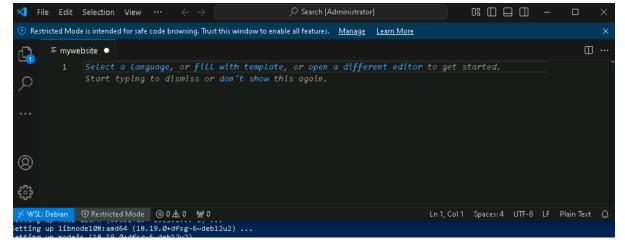
```
PS C:\Users\Administrator> cd \\wsl$\Ubuntu\home\jith123
PS Microsoft.PowerShell.Core\FileSystem::\\wsl$\Ubuntu\home\jith123> _
```

Run Windows Applications from Linux:

```
jithu@a6cf8aee28ce504:~$ explorer.exe .
jithu@a6cf8aee28ce504:~$ notepad.exe ~/.bashrc
^Cjithu@a6cf8aee28ce504:~$ ^C
jithu@a6cf8aee28ce504:~$ code ~/projects/mywebsite
```

open the a specific project directory in VS Code:

```
Jithu@a6cf8aee28ce504: $ code -/projects/mywebsite
Updating VS Code Server to version 138f619c86f1199955d53b4166bef66ef252935c
Removing previous installation...
Installing VS Code Server for Linux x64 (138f619c86f1199955d53b4166bef66ef252935c)
Downloading: 100%
Unpacking: 100%
Unpacked 2033 files and folders to /home/jithu/.vscode-server/bin/138f619c86f1199955d53b4166bef66ef252935c.
Looking for compatibility check script at /home/jithu/.vscode-server/bin/138f619c86f1199955d53b4166bef66ef252935c/bin/helpers/check-requirements.sh
Running compatibility check script
Compatibility check successful (8)
```



Install Applications:

```
jithu@a6cf8aee28ce504:/mnt/c/Users/Administrator$ sudo apt install geditReading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
    adwaita-icon-theme alsa-topology-conf alsa-ucm-conf aspell aspell-en
    at-spi2-common at-spi2-core bsdextrautils bsdutils bubblewrap dbus
    dbus-bin dbus-daemon dbus-session-bus-common dbus-system-bus-common
    dbus-user-session dconf-gsettings-backend dconf-service
    dictionaries-common docbook-xml emacsen-common enchant-2 fdisk
    fontconfig fonts-dejavu fonts-dejavu-extra fonts-droid-fallback
    fonts-noto-mono fonts-urw-base35 fuse3 gedit-common ghostscript
    girl.2-atk-1.0 girl.2-freedesktop girl.2-gdkpixbuf-2.0
    girl.2-glib-2.0 girl.2-gtk-3.0 girl.2-gtksource-4
    girl.2-harfbuzz-0.0 girl.2-pango-1.0 girl.2-peas-1.0 glib-networking
```

