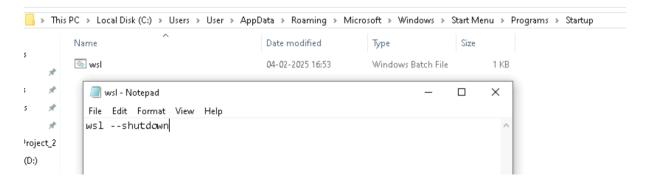
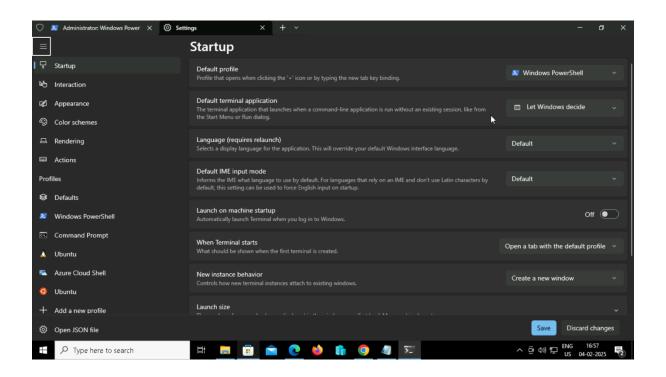
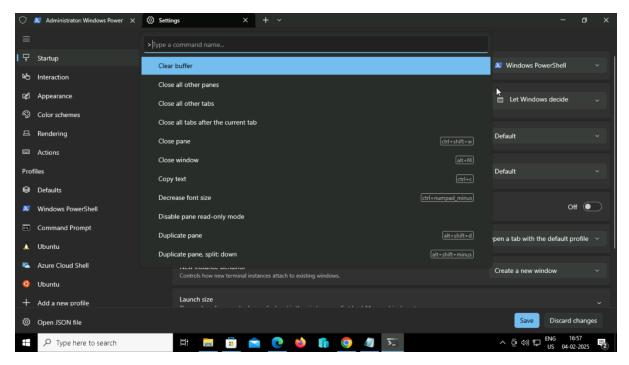
Windows Subsystem for Linux 2 (WSL2): A Complete Guide for Windows 10 & 11

Step 1: Create a wsl.bat file in your Startup folder (C:\Users\User\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup) with the content: wsl --shutdown

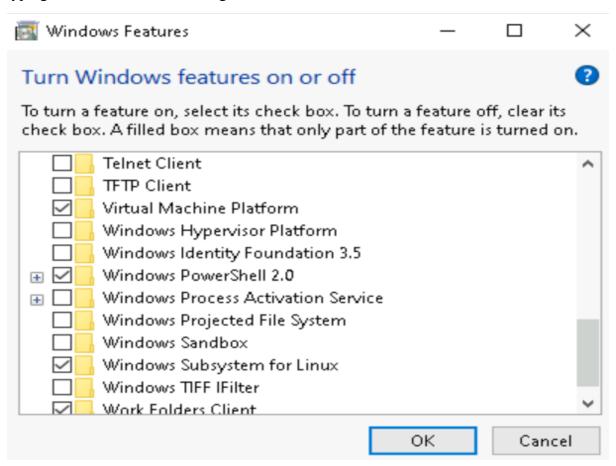


Step 2: Configuration is available from the Settings menu item (Ctrl + ,), the Command Palette (Ctrl + Shift + P), or the settings ison accessed at the bottom of the Settings panel.





Step 3: The Virtual Machine Platform and Windows Subsystem for Linux features must be enabled in Turn Windows features on or off option. The panel is accessed by hitting Start and typing "features" or from the Programs and Features icon in the classic Control Panel.



Step 4: Open Windows Powershell as Open as Administrator.

```
Administrator: Windows PowerShell

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Administrator>
```

Step 5: Updating the windows subsystem using the below command.

```
PS C:\Users\Administrator> wsl --install
Ubuntu is already installed.
Launching Ubuntu...
pavanthumati@5b3d002ed32e50d:~$ exit
logout
The operation completed successfully.
PS C:\Users\Administrator> wsl --list --verbose
```

Step 6: Switch Between WSL1 and WSL2 - Existing WSL1 distros can be converted to WSL2. For that, enter the following command in a Windows Powershell terminal to display the installed Linux distros and their WSL version:

```
PS C:\Users\Administrator> wsl --list --verbose
NAME STATE VERSION
* Ubuntu Stopped 1
docker-desktop Stopped 2
```

Step 7: Try switching between wsl1 and wsl2.

```
PS C:\Users\Administrator> wsl
                                    VERSION
 NAME
                    STATE
 Ubuntu
                    Stopped
                                    1
 docker-desktop
                   Stopped
PS C:\Users\Administrator> wsl --set-version Ubuntu 2
For information on key differences with WSL 2 please visit https://aka.ms/wsl2
Conversion in progress, this may take a few minutes.
The operation completed successfully.
PS C:\Users\Administrator> wsl --list --verbose
                                    VERSION
 NAME
                    STATE
* Ubuntu
                    Stopped
 docker-desktop
                  Stopped
PS C:\Users\Administrator> wsl --list
Windows Subsystem for Linux Distributions:
Ubuntu (Default)
docker-desktop
```

Step 8: Clone Linux Disk Image.

```
PS C:\Users\Administrator> mkdir D:\backup
   Directory: D:\
           LastWriteTime Length Name
Mode
----
d---- 04-02-2025 17:08
                                               backup
PS C:\Users\Administrator> wsl --export Ubuntu D:\backup\ubuntu.tar
Export in progress, this may take a few minutes.
The operation completed successfully.
PS C:\Users\Administrator> wsl --unregister Ubuntu
Unregistering.
The operation completed successfully.
PS C:\Users\Administrator> wsl --list
Windows Subsystem for Linux Distributions:
docker-desktop (Default)
PS C:\Users\Administrator> 🕳
```

Step 9: Import the backup into a new WSL2 distro at another location, such as D:\wsl

Step 10: Accessing Linux Files from windows and mapping a network drive.

```
PS C:\Users\Administrator> <mark>ubuntu</mark> config --default-user pavanthumati
PS C:\Users\Administrator> <u>    </u>
```

Step 11: Accessing the windows files from Linux.

Step 12: Executing the linux commands from windows.

```
PS C:\Users\Administrator> wsl ls -a

...
.bash_history
.cache
.docker
.eclipse
.erlang.cookie
.git
.gitconfig
.lesshst
.p2
.viminfo
.vscode
3D Objects
Applotation Data
Contacts
Cookies
Desktop
Documents
Downloads
Favorites
Links
Links
Local Settings
Music
My Documents
NUSER.DAT
NTUSER.DAT
NTUSER.DAT
```

Step 13: Run Windows commands from Linux.



