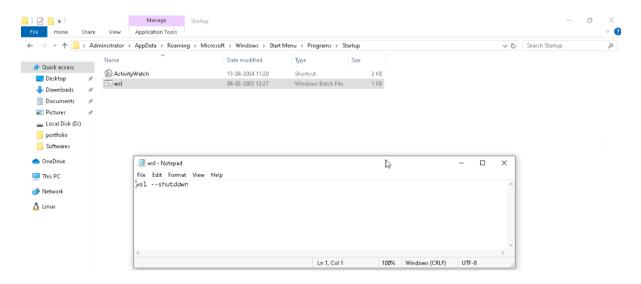
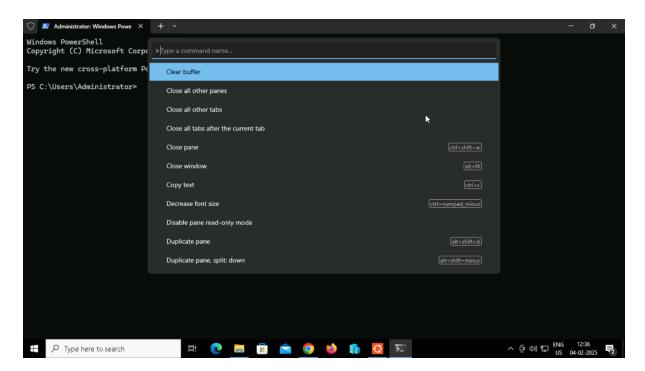
WSL ASSIGNMENT

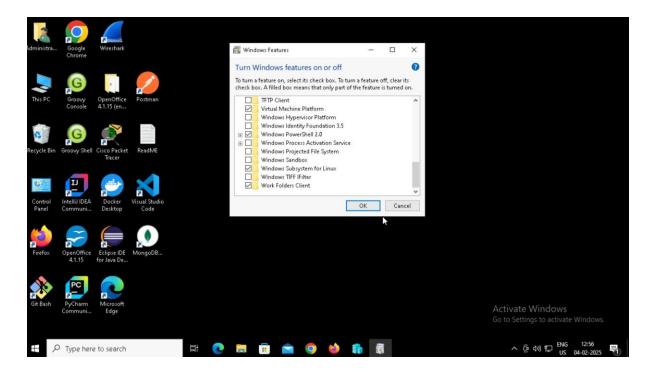
1. Create a wsl.bat file which will shut down WSL after Windows boots but it will restart as soon as you access a Linux distro



2. Windows Terminal automatically adds WSL2 Linux distros when they're installed and offers a configurable range of options including tabs, split views, themes, transparency, and key bindings.



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.



4. Search for or locate **PowerShell** in the Start menu, right-click the icon, and choose **Run** as administrator.

```
C:\Users\Administrator>wsl --list --online
The following is a list of valid distributions that can be installed.
Install using 'wsl.exe --install <Distro'.

NAME

| FRIENDLY NAME | Ubuntu | Sali | Linux Rolling | Ubuntu-18.04 | Ubuntu 18.04 | LTS | Ubuntu-20.04 | Ubuntu 20.04 | LTS | Ubuntu-22.04 | Ubuntu 22.04 | LTS | Ubuntu-24.04 | Ubuntu 24.04 | LTS | Ubuntu-24.04 | Ubuntu 24.04 | LTS | Ubuntu-24.04 | Ubuntu 25.04 | LTS | Ubuntu-26.05 | Ubuntu 26.05 | Ubuntu 27.07 | Oracle Linux 7.9 | Oracle Linux 8.7 | Oracle Linux 8.7 | Oracle Linux 8.7 | Oracle Linux 9.1 | OpenSUSE Leap 15.6 | SUSE Linux Enterprise 15 SPS | SUSE Linux-Enterprise-15-SP6 | SUSE Linux Enterprise 15 SP6 | OpenSUSE Tumbleweed | OpenSU
```

5. There are likely to be several Linux updates. To update Ubuntu applications, enter the following commands in the Linux terminal:

```
ignie@Zh4570bc7125f2:~$ sudo apt update
[sudo] password for ignis:
Set:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Htt:2 http://sechive.ubuntu.com/ubuntu noble-InRelease
Set:3 http://security.ubuntu.com/ubuntu noble-opdates InRelease [126 kB]
Set:4 http://security.ubuntu.com/ubuntu noble-opdates InRelease [126 kB]
Set:5 http://security.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Set:6 http://security.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Set:7 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [118 kB]
Set:8 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [18 kB]
Set:9 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [833 kB]
Set:9 http://security.ubuntu.com/ubuntu noble-security/miverse amd64 Packages [803 kB]
Set:10 http://security.ubuntu.com/ubuntu noble-updates/main Translation-en [191 kB]
Set:11 http://srchive.ubuntu.com/ubuntu noble-updates/main amd64 Components [52.8 kB]
Set:12 http://security.ubuntu.com/ubuntu noble-updates/main amd64 Components [52.8 kB]
Set:13 http://security.ubuntu.com/ubuntu noble-updates/main ranslation-en [191 kB]
Set:14 http://security.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1083 kB]
Set:15 http://security.ubuntu.com/ubuntu noble-security/metricted damd64 Packages [620 kB]
Set:16 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [620 kB]
Set:16 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [119 kB]
Set:17 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [120 kB]
Set:19 http://security.ubuntu.com/ubuntu noble-updates/universe amd64 Components [288 B]
Set:19 http://security.ubuntu.com/ubuntu noble-updates/universe amd64 Components [118 kB]
Set:20 http://security.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [118 kB]
Set:21 http://security.ubuntu.com/ubuntu noble-updates/mainunterse amd64 Packages [631 kB]
Set:22 http://sechive.ubuntu.com/ubuntu noble-backports/mainunter
```

```
Reading state information... Done
70 packages can be upgraded. Run 'apt list --upgradable' to see the 'spis@b45790e7125f2:-$ suda apt upgrade
Reading package lists... Done
Reading package lists... Done
Reading package lists... Done
Reading package lists... Done
Reading package was automatically installed and is no longer required:

libllwm17tst
Use 'suda apt autoremove' to remove at.
The following package was automatically installed and is no longer required:

libllwm17tst
Use 'suda apt autoremove' to remove at.
The following packages will be installed:

libllwm19tst
Use 'suda apt autoremove' to remove at.
The following upgrades have been deferred due to phasing:

liboming upgrades have liboming upgrades liboming upgrades liboming upgrades and liboming upgrades liboming upgra
```

```
Command 'wal' not found, but can be installed with:

sudo apt install wal
lgrisghabs7909C7125f2:-$ sudo apt install wal
lgrisghabs7909C7125f2:-$ sudo apt install wal
lgrisghabs7909C7125f2:-$ sudo apt install wal
Reading package lists... Done
Reading state information... Done
Reading state information...
The following package was automatically installed:
libxnl2-utils swal state
libxnl2-utils swal state
state
libxnl2-utils swal state
Reading sta
```

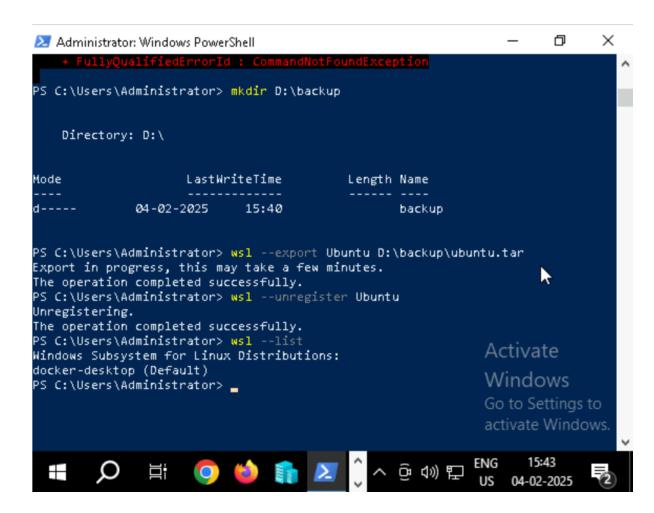
- 6. Existing WSL1 distros can be converted to WSL2. For that, enter the following command in a Windows Powershell terminal to display the installed Linux distros and their WSL version
- 7. Try switching between WSL1 and WSL2 and also setup a default version

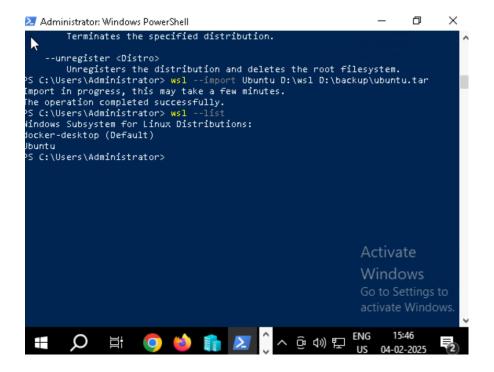
```
S C:\Users\Administrator> wsl
For information on key differences with WSL 2 please visit https://aka.ms/wsl2
The operation completed successfully.
S C:\Users\Administrator> wsl --install
Jbuntu is already installed.
aunching Ubuntu...
                         ...
25f2: $ sudo apt update
[sudo] password for igris:
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Hit:3 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Fetched 126 kB in 1s (93.4 kB/s)
Reading package lists... Done
Building dependency tree... Done
bullung dependency tree... Done
Reading state information... Done
1 package can be upgraded. Run 'apt list --upgradable' to see it.
igris@2b4579b9c7125f2: $ 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:
  lib11vm17t64
Jse 'sudo apt autoremove' to remove it.
he following upgrades have been deferred due to phasing:
  libunwind8
 upgraded, 0 newly installed, 0 to remove and 1 not upgraded.
                  b9c7125f2: $ wsl --update
 nknown command: --update
```

Administrator: Windows PowerShell

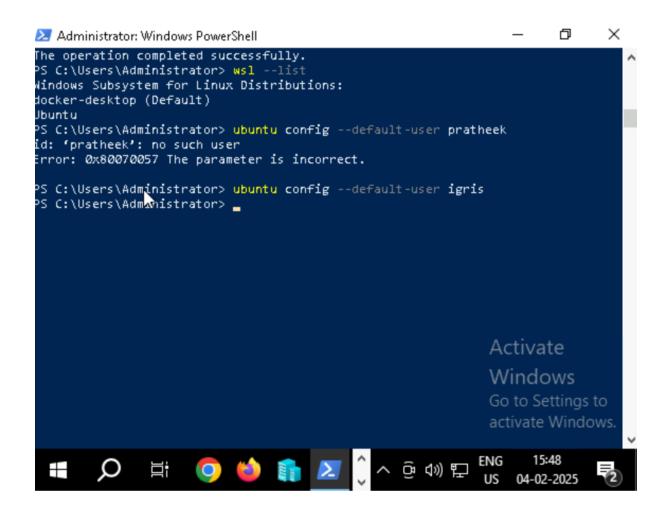
```
PS C:\Users\Administrator> wsl --set-version Ubuntu 2
For information on key differences with WSL 2 please visit https://aka.ms/ws12
Conversion in progress, this may take a few minutes.
The distribution is already the requested version.
Error code: Ws1/Service/WSL_E_VM_MODE_INVALID_STATE
PS C:\Users\Administrator> wsl --list
Windows Subsystem for Linux Distributions:
docker-desktop (Default)
Ubuntu
PS C:\Users\Administrator> wsl --set-version Ubuntu 1
Conversion in progress, this may take a few minutes.
The operation completed successfully.
PS C:\Users\Administrator> wsl --list --verbose
 NAME
                    STATE
                                    VERSION
 docker-desktop
                    Stopped
                                    2
 Ubuntu
                    Stopped
                                    1
PS C:\Users\Administrator>
```

8. Move or Clone Your Linux Disk Image

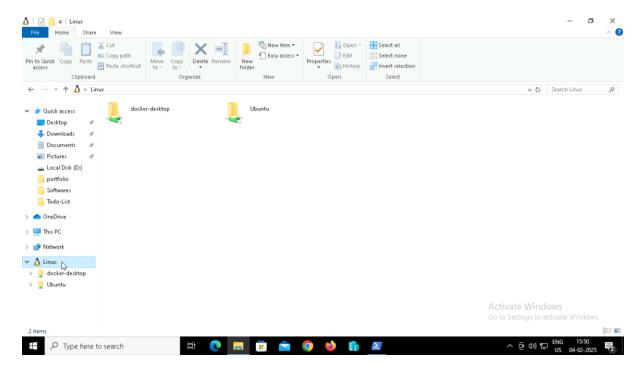




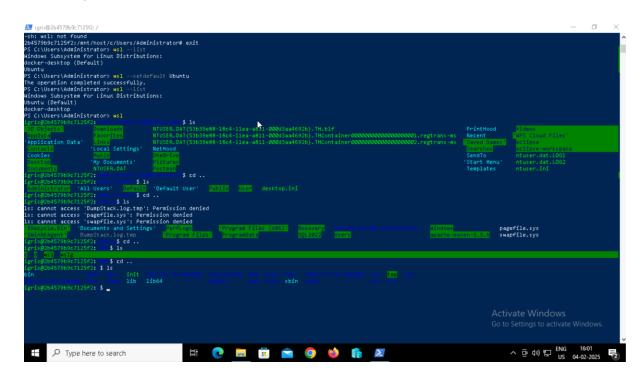
9. Access Linux Files from Windows and Map a Network Drive



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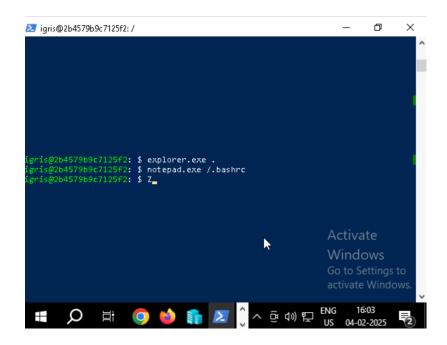


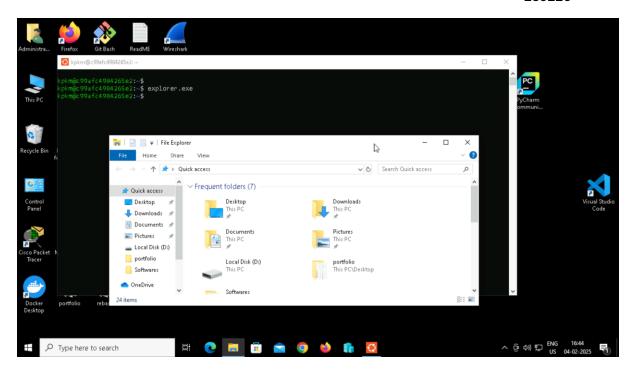
10. Accessing Windows files from Linux



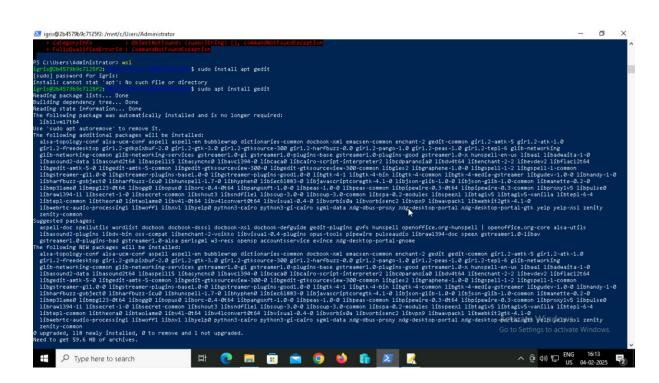
11. Run Linux commands from Windows

12. Run Windows applications from Linux





13. Installing Graphical Linux applications



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