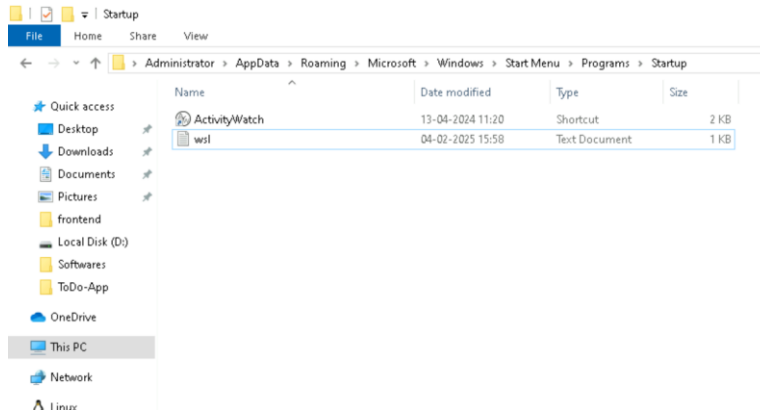


WSL Installations and Applications

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. Enable Windows Features

Access Turn Windows features on or off:

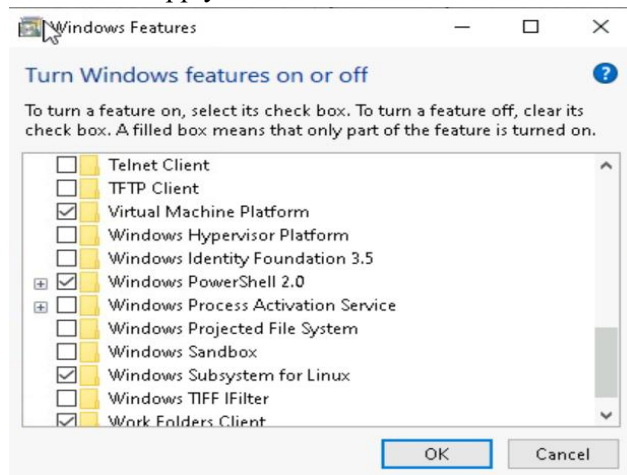
Press the Start button and type “features.”

Select Turn Windows features on or off.

Enable Virtual Machine Platform and Windows Subsystem for Linux:

In the features window, check Virtual Machine Platform and Windows Subsystem for Linux.

Click OK to apply.



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

```
joh@ubuntu20c4:~$ sudo apt update
[sudo] password for joh:
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Hit: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 3s (48.9 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
joh@ubuntu20c4:~$
```

- 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:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\Administrator> wsl --list --verbose


| NAME           | STATE   | VERSION |
|----------------|---------|---------|
| Debian         | Stopped | 2       |
| Ubuntu         | Running | 2       |
| Docker-desktop | Stopped | 2       |


PS C:\Users\Administrator>
```

- Switch between WSL1 and WSL2 and also setup a default version

```
Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Users\Administrator> wsl --list --verbose


| NAME           | STATE   | VERSION |
|----------------|---------|---------|
| Debian         | Stopped | 2       |
| Ubuntu         | Running | 2       |
| Docker-desktop | Stopped | 2       |


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 distribution is already the requested version.
Error code: WSL_SERVICE_WSL_2_VM_MON_INVALID_STATE
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 --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
Windows Subsystem for Linux Distributions:
Debian (Default)
Ubuntu
Docker-desktop
PS C:\Users\Administrator> wsl --set-default Ubuntu
Invalid command line argument: -setdefault
Please use 'wsl.exe --help' to get a list of supported arguments.
PS C:\Users\Administrator> wsl --set-default joh
Invalid command line argument: -setdefault
Please use 'wsl.exe --help' to get a list of supported arguments.
PS C:\Users\Administrator>
```

```
Administrator: Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

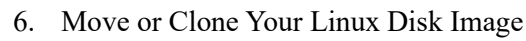
PS C:\Users\Administrator> wsl --list --verbose


| NAME           | STATE   | VERSION |
|----------------|---------|---------|
| Debian         | Stopped | 2       |
| Ubuntu         | Running | 2       |
| Docker-desktop | Stopped | 2       |

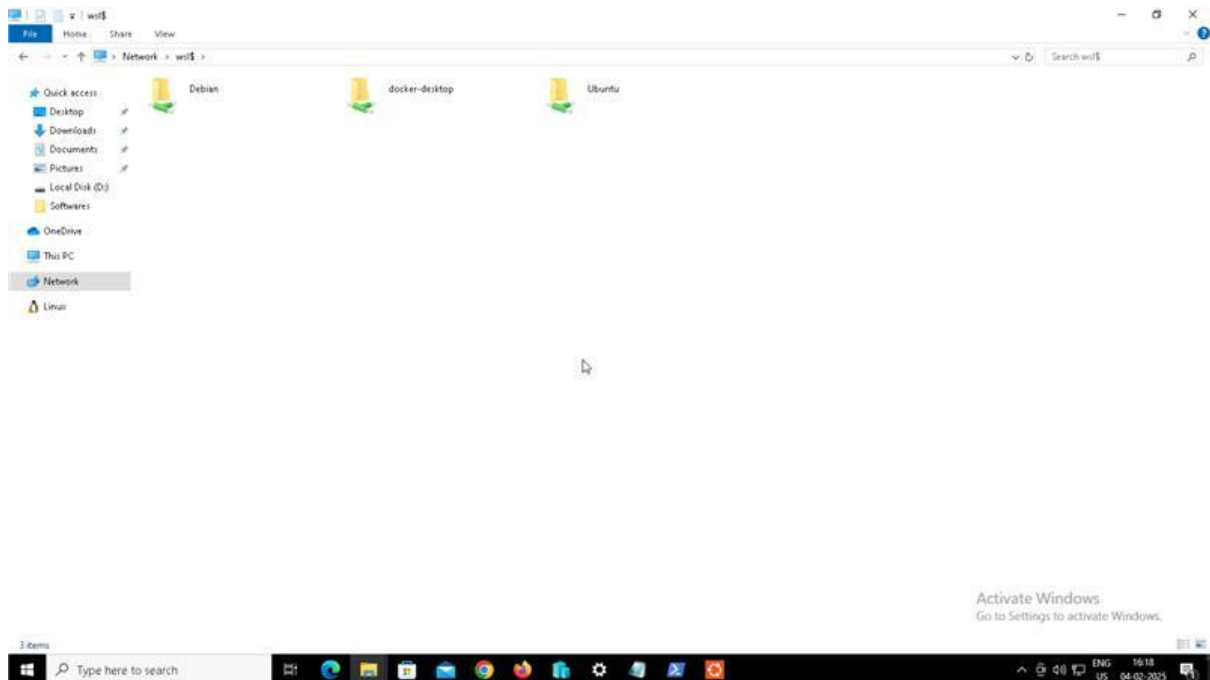

PS C:\Users\Administrator> wsl --set-version Ubuntu 2
For information on key differences with WSL 2 please visit https://aka.ms/wsl2
Conversion in progress, this may take a few minutes.
The distribution is already the requested version.
Error code: WSL_SERVICE_WSL_2_VM_MON_INVALID_STATE
PS C:\Users\Administrator> wsl --set-version Ubuntu 1
Conversion in progress, this may take a few minutes.
The operation completed successfully.
PS C:\Users\Administrator> wsl --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
Windows Subsystem for Linux Distributions:
Debian (Default)
Ubuntu
Docker-desktop
PS C:\Users\Administrator> wsl --set-default Ubuntu
Invalid command line argument: -setdefault
Please use 'wsl.exe --help' to get a list of supported arguments.
PS C:\Users\Administrator> wsl --set-default joh
Invalid command line argument: -setdefault
Please use 'wsl.exe --help' to get a list of supported arguments.
PS C:\Users\Administrator> wsl --list --verbose


| NAME           | STATE   | VERSION |
|----------------|---------|---------|
| Debian         | Stopped | 2       |
| Ubuntu         | Running | 2       |
| Docker-desktop | Stopped | 2       |

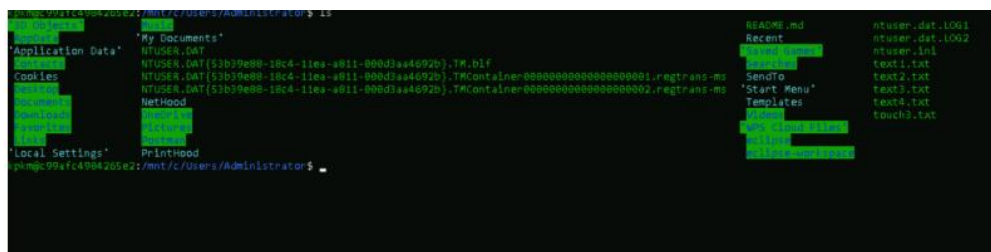

PS C:\Users\Administrator> wsl --set-default Ubuntu
The operation completed successfully.
PS C:\Users\Administrator>
```



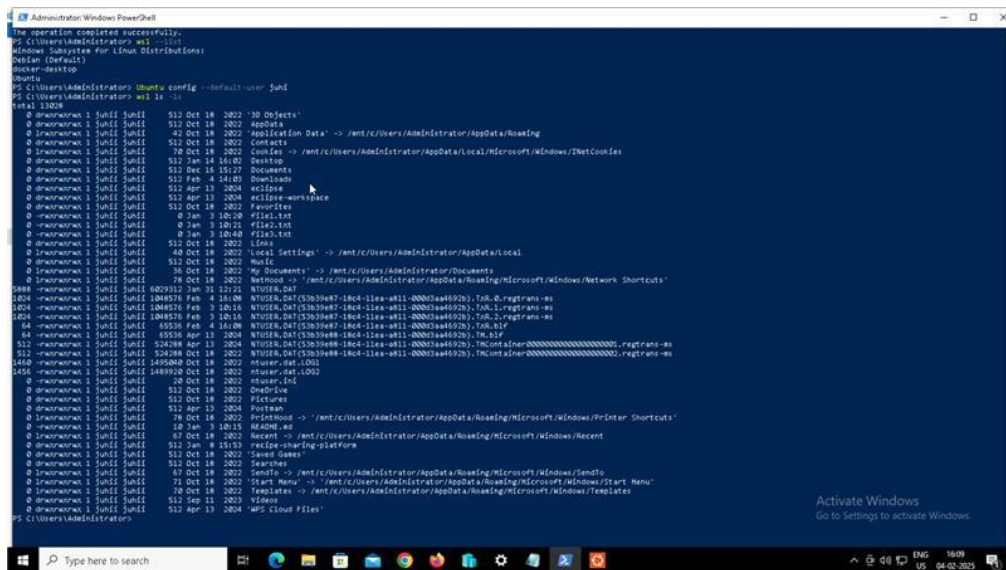
8.



9. Accessing Windows files from Linux



10. Run Linux commands from Windows



11. Run Windows applications from Linux



12. Installing Graphical Linux applications



