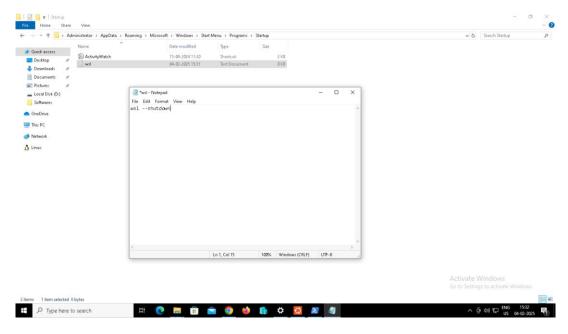
WSL Installations and Applications

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

```
Select Administrator: Windows PowerShell
                                                                                                                                                                                                     Γ
 opyright (C) Microsoft Corporation. All rights reserved.
ry the new cross-platform PowerShell https://aka.ms/pscore6
S C:\Users\Administrator> wsl --list --online
he following is a list of valid distributions that can be installed.
nstall using 'wsl.exe --install <Distro>'.
AME
                                                       FRIENDLY NAME
buntu
                                                     Ubuntu
Debian GNU/Linux
Kali Linux Rolling
Ubuntu 18.04 LTS
Ubuntu 20.04 LTS
Ubuntu 22.04 LTS
Ubuntu 24.04 LTS
Oracle Linux 7.9
Oracle Linux 8.7
Oracle Linux 9.1
openSUSE Linux Enterprise 15 SP5
SUSE Linux Enterprise 15 SP6
openSUSE Tumbleweed
                                                       Ubuntu
ebian
ali-linux
buntu-18.04
buntu-20.04
puntu-20.04
buntu-22.04
buntu-24.04
raclelinux_7_9
raclelinux_8_7
raclelinux_9_1
penSUSE-Leap-15.6
USE-Linux-Enterprise-15-SP5
 JSE-Linux-Enterprise-15-SP6
 enSUSE-Tumbleweed
                                                       openSUSE Tumbleweed
  C:\Users\Administrator> _
```

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

4. 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:

```
Administrator: Windows PowerShell

Windows PowerShell
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PS C:\Users\Administrator> wsl --list --verbose
NAME STATE VERSION

* Debian Stopped 2
Ubuntu Running 2
docker-desktop Stopped 2

PS C:\Users\Administrator> ___
```

5. Try switching between WSL1 and WSL2 and also setup a default version

Administrator: Windows PowerShell

```
ry the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\Administrator> wsl --list --verbose
                           STATE
                                                  VERSTON
 NAME
  Debian
                            Stopped
  Ubuntu
                           Running
  docker-desktop
                           Stopped
 S 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_E_VM_MODE_INVALID_STATE
PS C:\Users\Administrator> wsl --se version Ubuntu 1
Conversion in progress, this may take a few minutes.
The operation completed successfully.
 S C:\Users\Administrator> wsl --set-version Ubuntu 2
or 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.
S C:\Users\Administrator> wsl
Windows Subsystem for Linux Distributions:
Debian (Default)
Jbuntu
docker-desktop
PS C:\Users\Administrator> wsl -setdefault Ubuntu
Invalid command line argument: -setdefault
Please use 'wsl.exe --help' to get a list of supported arguments.
PS C:\Users\Administrator> wsl -setdefault juhi
                                                                                                                                    Activ
Invalid command line argument: -setdefault
                                                                                                                                    Go to
 lease use 'wsl.exe --help' to get a list of supported arguments.
PS C:\Users\Administrator> _
```

6.

```
🔼 Administrator: Windows PowerShell
```

```
Administrator: Windows PowerShell

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

PS C:\Users\Administrator> Test-Path D:\backup
True
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:
Debian (Default)
docker-desktop
PS C:\Users\Administrator> _____
```

7. Move or Clone Your Linux Disk Image

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

```
Debian (Default)

Debian (Default)

docker-desktop

PS C:\Users\Administrator> mkdir D:\wsl

mkdir : An item with the specified name D:\wsl already exists.

At line:l char:l

mkdir D:\wsl

t mkdir D:\wsl

Toue

PS C:\Users\Administrator> Test-Path D:\wsl

True

PS C:\Users\Administrator> wsl --import Ubuntu D:\wsl\ D:\backup\ubuntu.tar

Import 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)

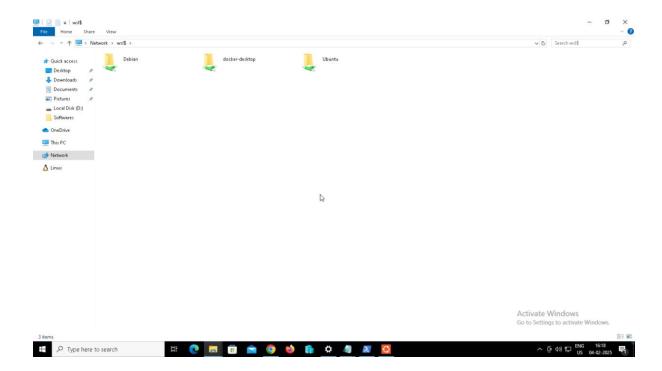
docker-desktop

Ubuntu

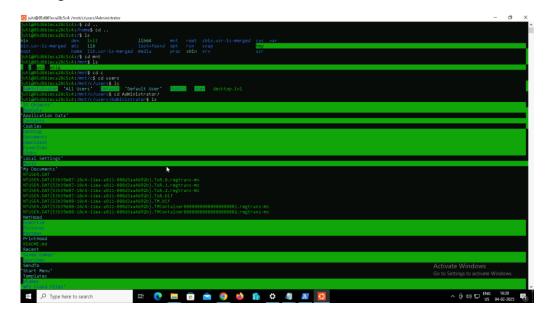
PS C:\Users\Administrator> Ubuntu config --default-user juhi

PS C:\Users\Administrator> Ubuntu config --default-user juhi

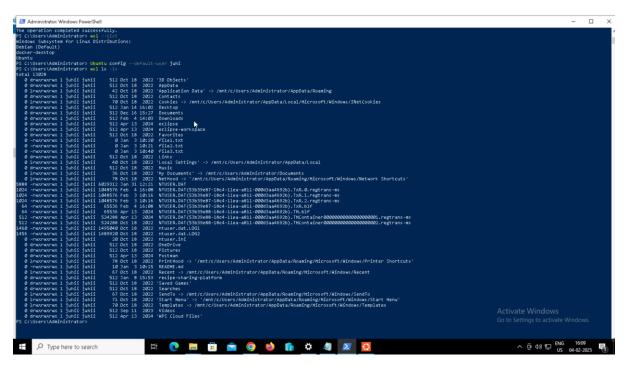
PS C:\Users\Administrator> Ubuntu config --default-user juhi
```



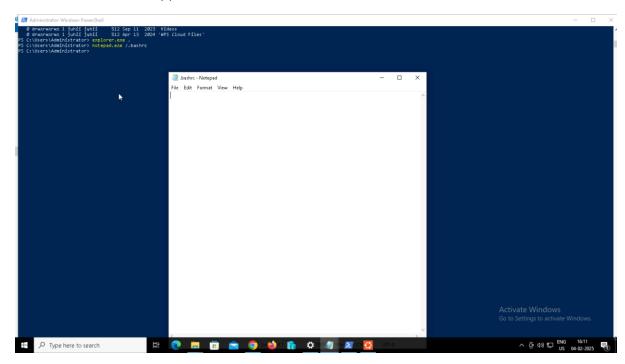
9. Accessing Windows files from Linux



10. Run Linux commands from Windows



11. Run Windows applications from Linux



12. Installing Graphical Linux applications

