

# WSL

- WSL
- Windows Terminal
- WSL
- Linux WSL
- WSL 2 ( default )

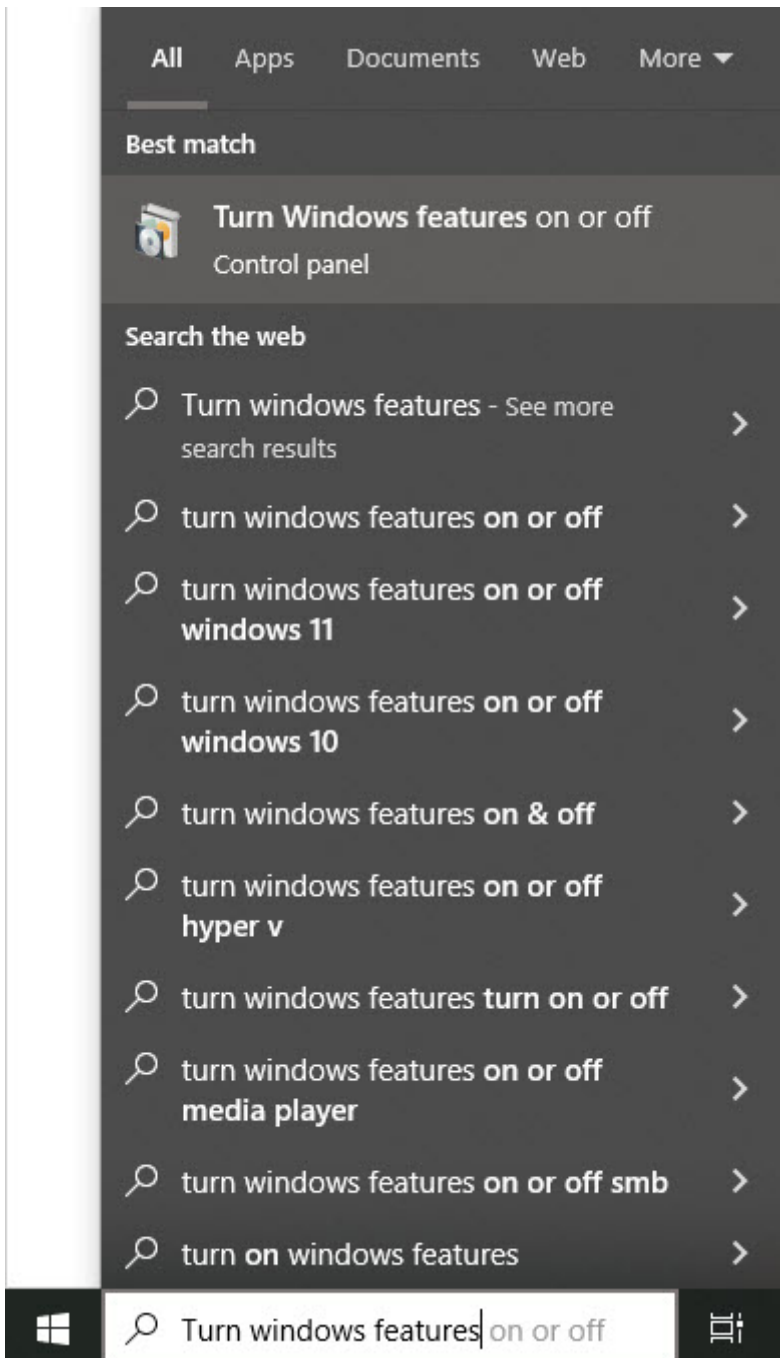
# WSL

## Windows

Turn Windows Features on or off

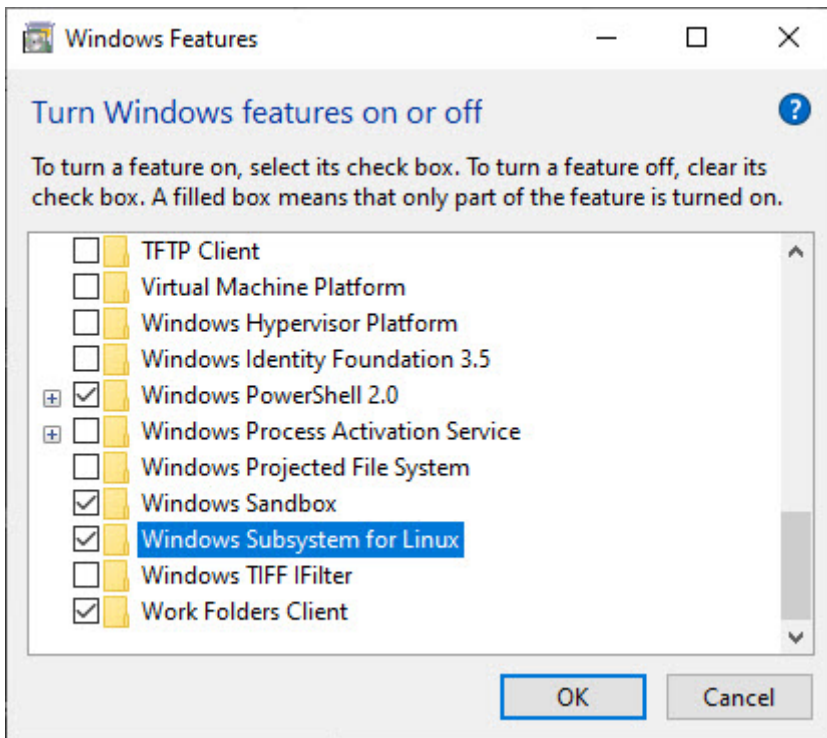
click

Windows Features



Windows Subsystem for Linux ( WSL )

OK



restart Windows 1

# Windows Terminal

Command Prompt

Windows Powershell

Windows

WSL

Terminal

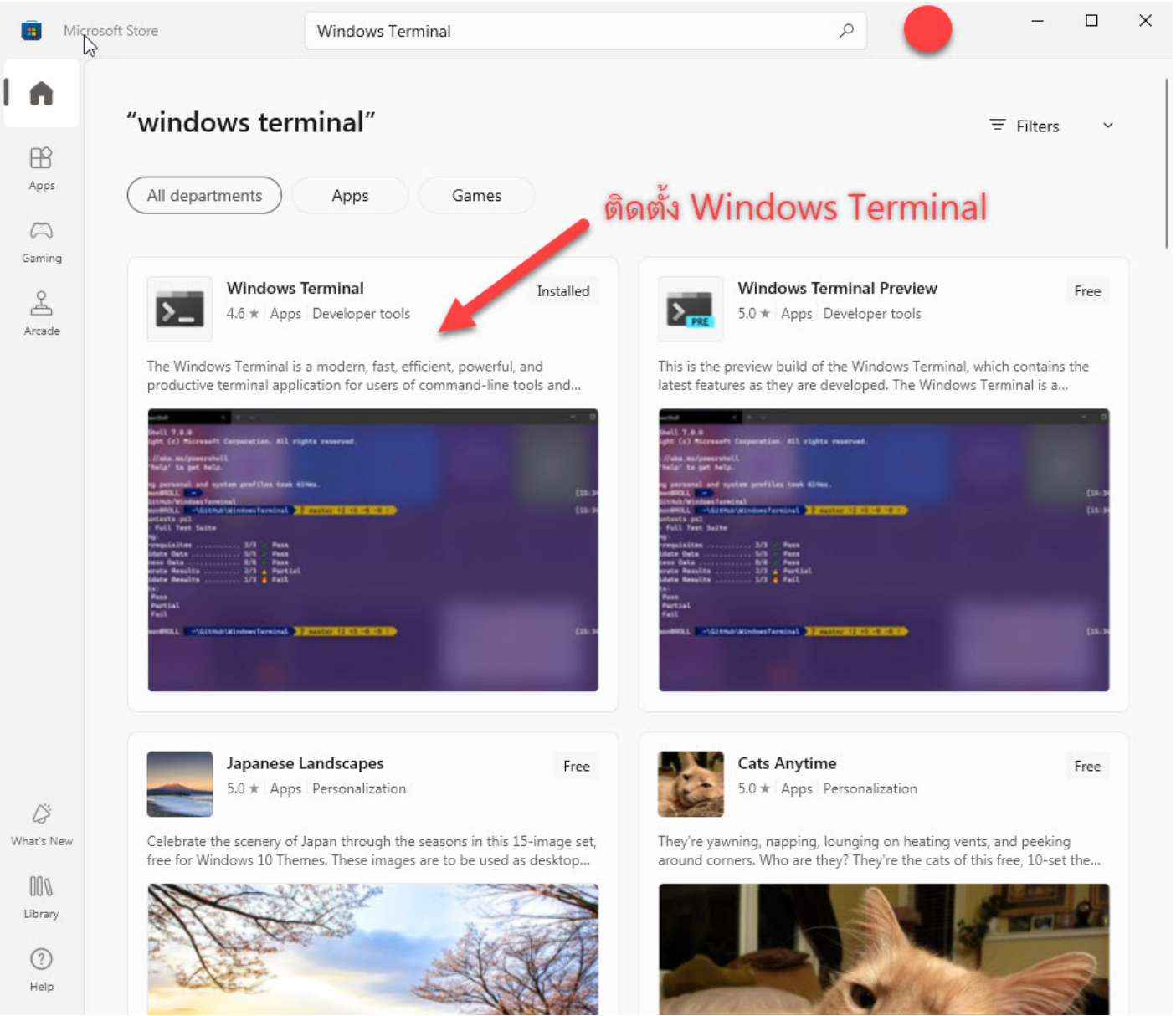
WSL

( 2024 )

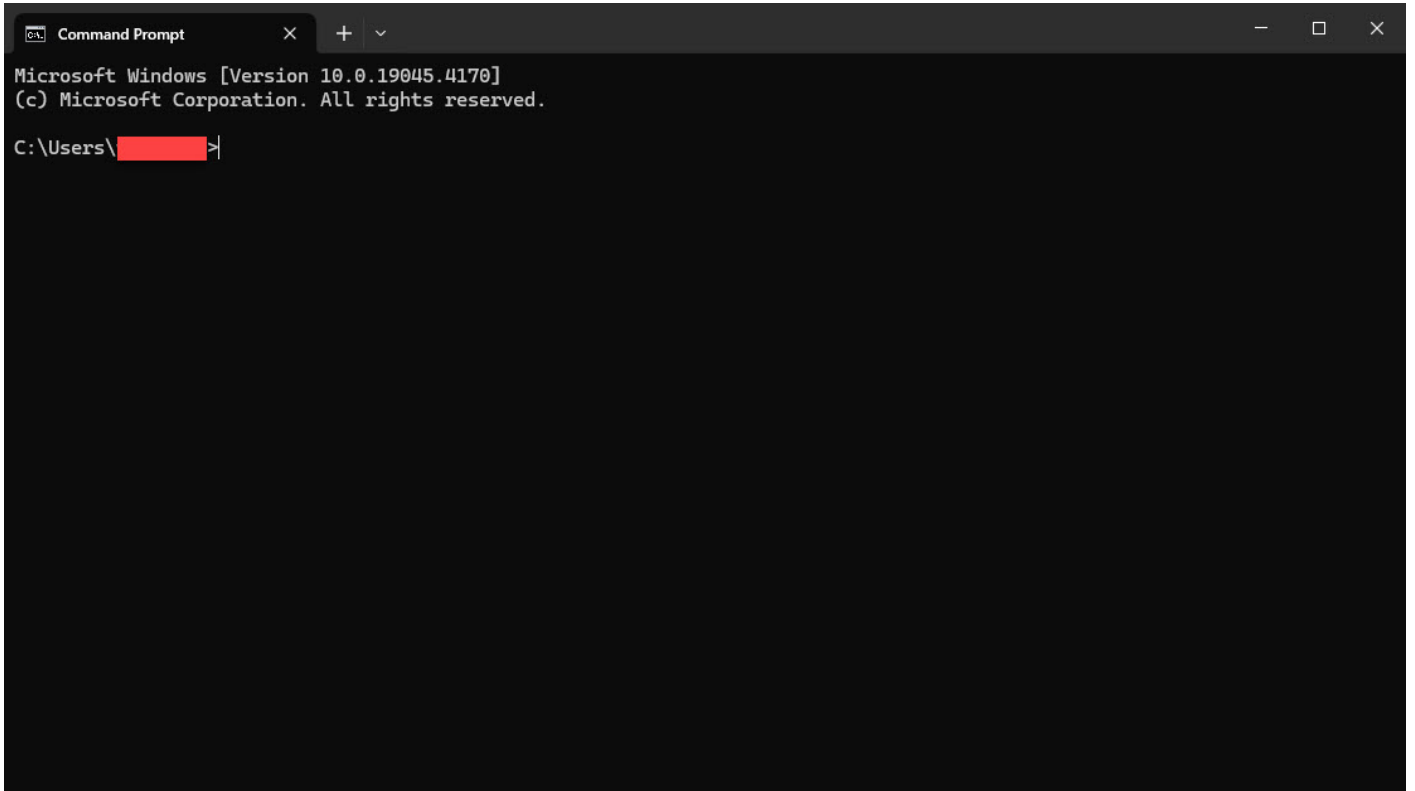
Windows Terminal

Microsoft Store

Windows Terminal ( )



Windows Termial

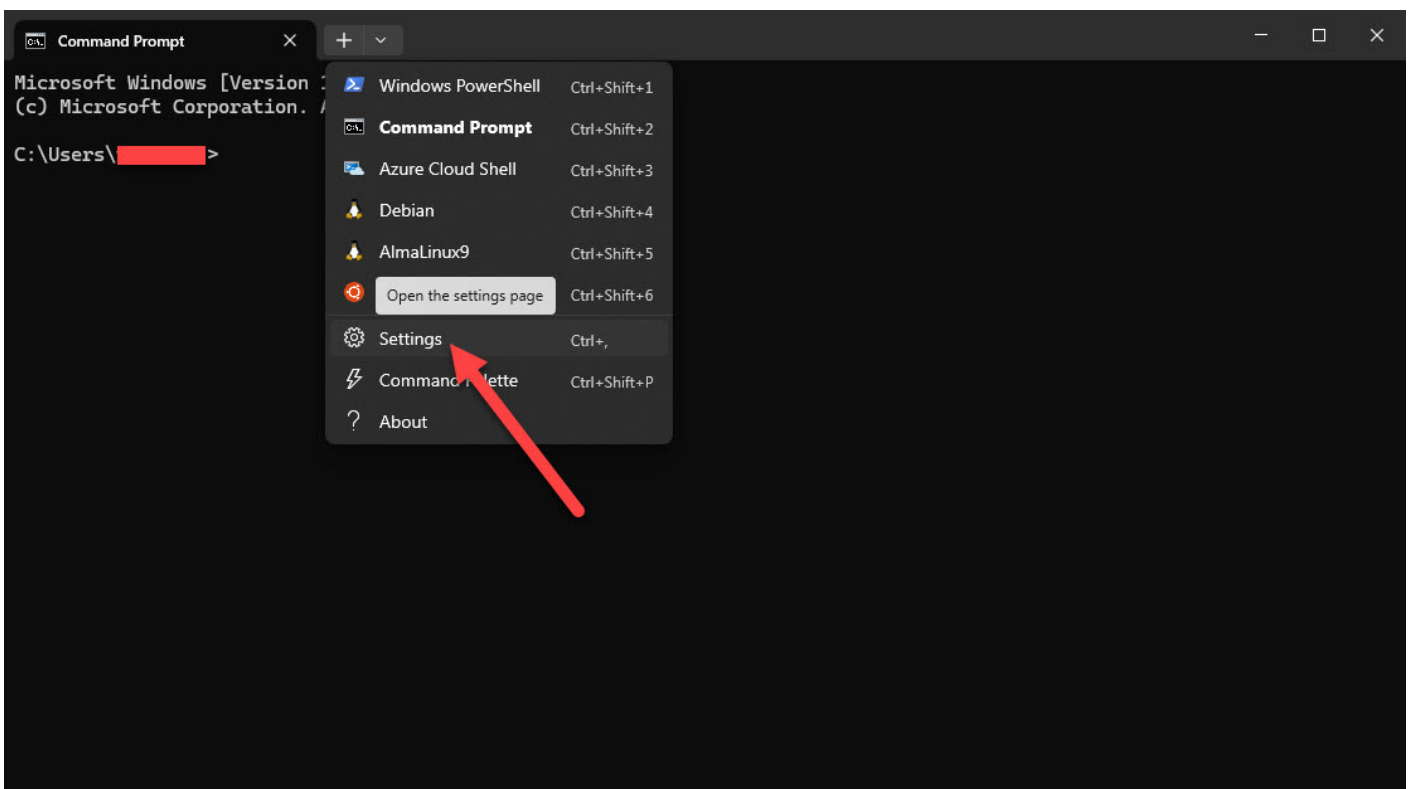


Windows Terminal

wsl.exe

Windows Terminal

Settings ( )



# WSL

Windows Terminal

WSL

```
wsl -v
```

```
C:\Users\██████████>wsl -v
WSL version: 2.1.5.0
Kernel version: 5.15.146.1-2
WSLg version: 1.0.60
MSRDC version: 1.2.5105
Direct3D version: 1.611.1-81528511
DXCore version: 10.0.25131.1002-220531-1700.rs-onecore-base2-hyp
Windows version: 10.0.19045.4170
```

WSL

WSL version 2.1.5.0

( 04/2024 )

WSL

WSL

```
wsl --update
```

```
C:\Users\██████████>wsl --update
Checking for updates.
The most recent version of Windows Subsystem for Linux is already installed.
```

WSL

# Linux WSL

Linux distro

WSL

```
wsl -l -o
```

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

NAME                                FRIENDLY NAME
Ubuntu                              Ubuntu
Debian                              Debian GNU/Linux
kali-linux                          Kali Linux Rolling
Ubuntu-18.04                        Ubuntu 18.04 LTS
Ubuntu-20.04                        Ubuntu 20.04 LTS
Ubuntu-22.04                        Ubuntu 22.04 LTS
OracleLinux_7_9                    Oracle Linux 7.9
OracleLinux_8_7                    Oracle Linux 8.7
OracleLinux_9_1                    Oracle Linux 9.1
openSUSE-Leap-15.5                 openSUSE Leap 15.5
SUSE-Linux-Enterprise-Server-15-SP4 SUSE Linux Enterprise Server 15 SP4
SUSE-Linux-Enterprise-15-SP5       SUSE Linux Enterprise 15 SP5
openSUSE-Tumbleweed                openSUSE Tumbleweed
```

Ubuntu-20.04

```
wsl --install Ubuntu-20.04
```

```
C:\Users\[redacted]>wsl --install Ubuntu-20.04
Installing: Ubuntu 20.04 LTS
Ubuntu 20.04 LTS has been installed.
Launching Ubuntu 20.04 LTS...
Installing, this may take a few minutes...
Please create a default UNIX user account. The username does not need to match your Windows username.
For more information visit: https://aka.ms/wslusers
Enter new UNIX username: [redacted]
New password:
Retype new password:
passwd: password updated successfully
Installation successful!
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
```

Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.146.1-microsoft-standard-WSL2 x86\_64)

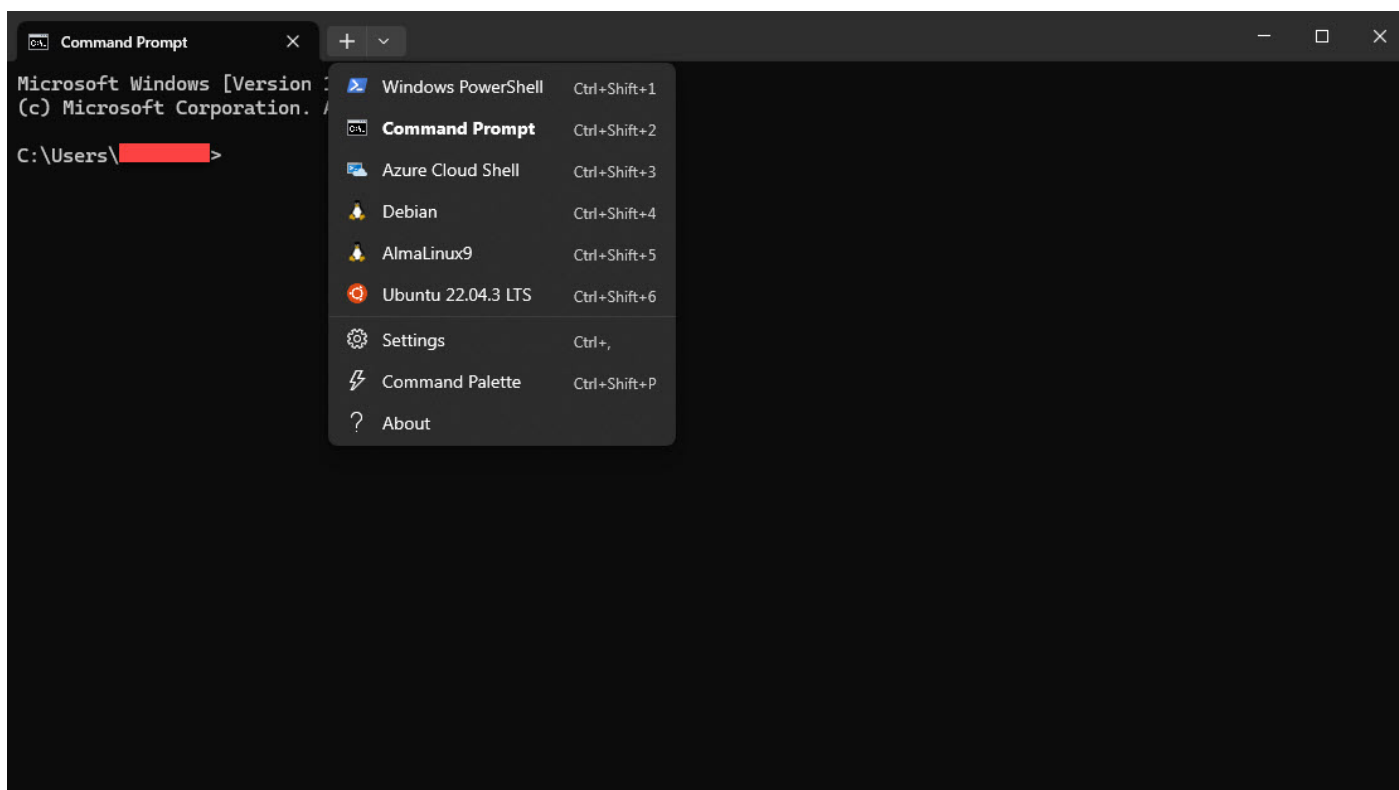
\* Documentation: <https://help.ubuntu.com>  
\* Management: <https://landscape.canonical.com>  
\* Support: <https://ubuntu.com/advantage>

System information as of Tue Apr 2 15:44:46 +07 2024

System load:	0.04	Processes:	77
Usage of /:	0.1% of 1006.85GB	Users logged in:	0
Memory usage:	3%	IPv4 address for eth0:	[redacted]
Swap usage:	0%		

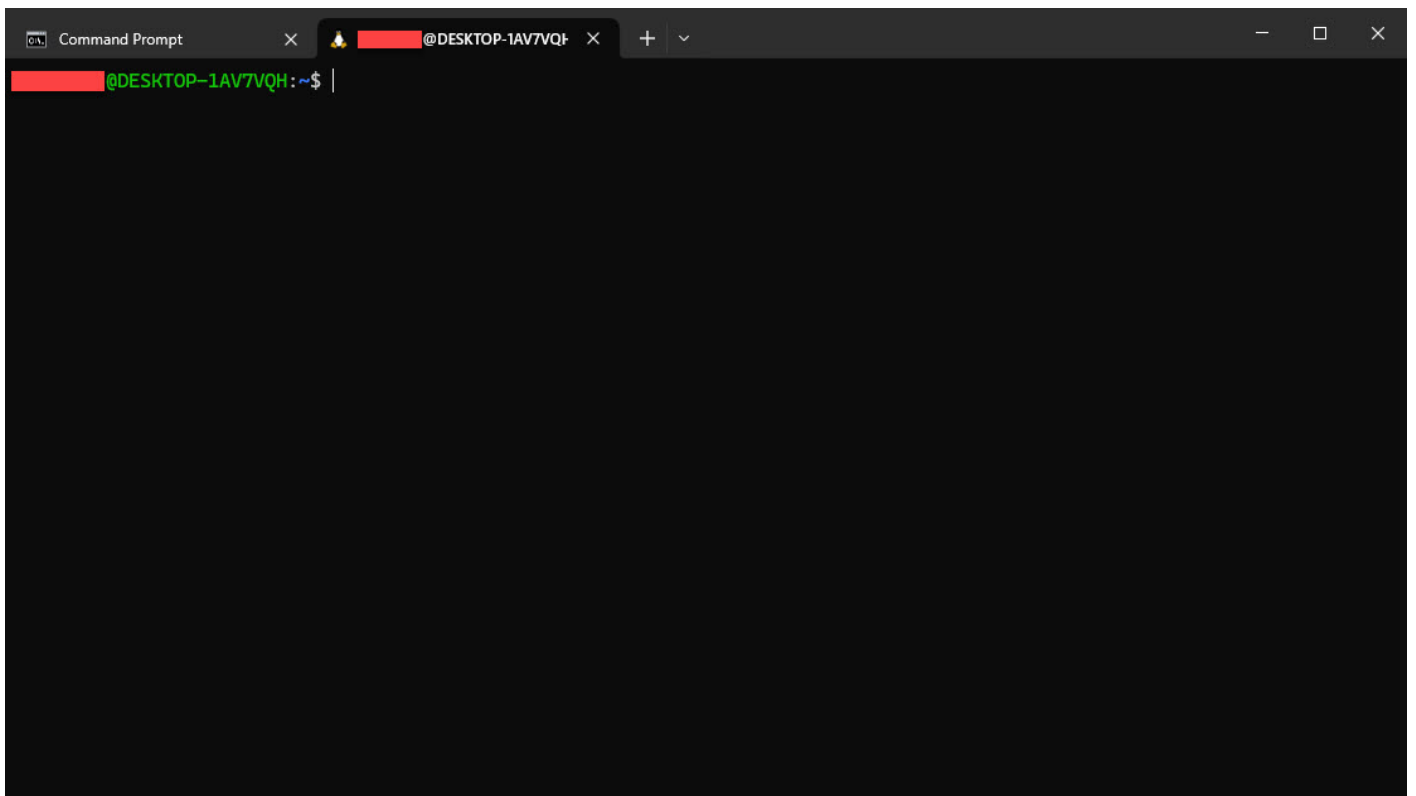
Linux ( )

Terminal +



Linux distro





bash    linux

# WSL 2

WSL	1-2	(	04/2024 )	WSL	1
Microsoft	WSL 2	feature		WSL 1 (	WS
Linux	WSL	WSL 1	WSL 2		

```
C:\Users\[redacted]>wsl -l -v
NAME                STATE      VERSION
* Debian            Stopped    1
AlmaLinux9          Stopped    1
Ubuntu-22.04        Stopped    2
```

WSL version 2 ( default )

```
wsl --set-default-version 2
```

```
C:\Users\[redacted]>wsl --set-default-version 2
For information on key differences with WSL 2 please visit https://aka.ms/wsl2
The operation completed successfully.
```

Debian WSL 2

```
wsl --set-version Debian 2
```

```
C:\Users\[redacted]>wsl -l -v
NAME                STATE      VERSION
* Debian            Stopped    1
AlmaLinux9          Stopped    1
Ubuntu-22.04        Stopped    2

C:\Users\tanakorn>wsl --set-version Debian 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.

C:\Users\[redacted]>wsl -l -v
NAME                STATE      VERSION
* Debian            Stopped    2
AlmaLinux9          Stopped    1
Ubuntu-22.04        Stopped    2
```

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