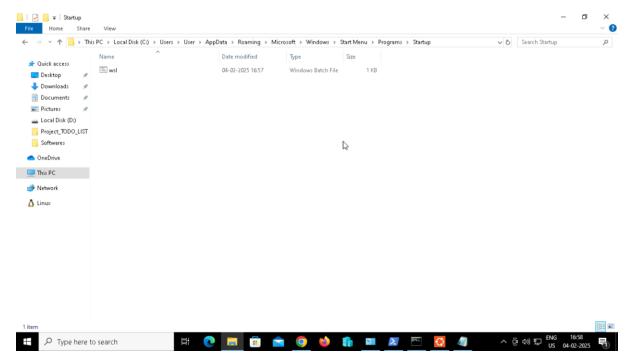
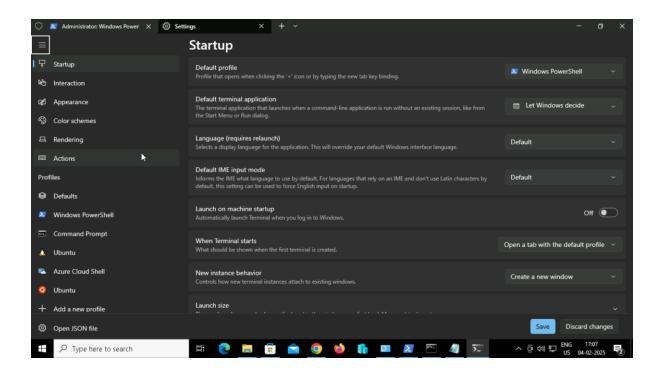
## **KARANAM YESWANTH TEJA(289224)**

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

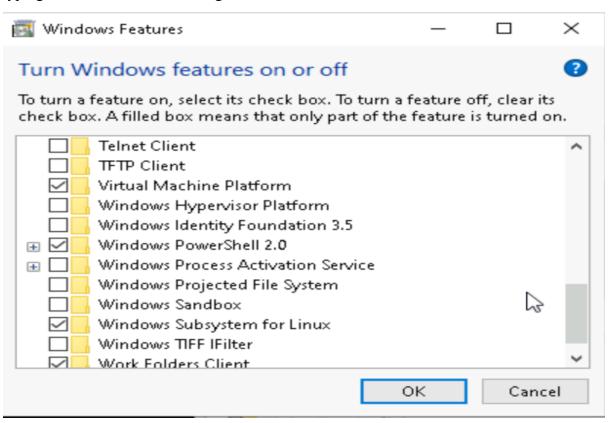
**Step 1:** Create a wsl.bat file in your Startup folder (C:\Users\User\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup) with the content: wsl --shutdown



**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.

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

```
Ubuntu is already installed.
Launching Ubuntu...
Launching Ubuntu...
Launching Ubuntu...
Launching Ubuntu...
Reference of the process of the
```

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

**Step 7:** Try switching between wsl1 and wsl2.

```
PS C:\Users\Administrator> wsl --ser-version Ubuntu 2
Invalid command line argument: --ser-version
Please use 'wsl.exe --help' to get a list of supported arguments.
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: Ws1/Service/WSL_E_VM_MODE_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:
docker-desktop (Default)
Ubuntu
```

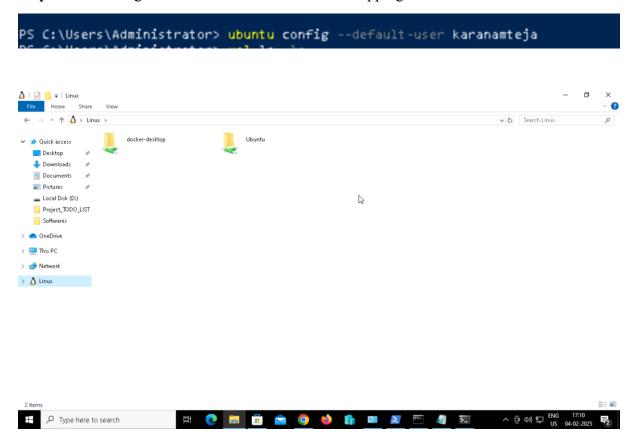
## Step 8: Clone Linux Disk Image.

```
PS C:\Users\Administrator> wsl --user karanamteja
karanamteja@334a7a24d06950c:
                                                      $ exit
logout
PS C:\Users\Administrator> mkdir D:\backup
   Directory: D:\
                    LastWriteTime
Mode
                                         Length Name
....
            04-02-2025 14:46
                                                  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)
```

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

```
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 --import Clone01 D:\wsl\ D:\backup\ubuntu.tar
Import in progress, this may take a few minutes.
The supplied install location is already in use.
Error code: Wsl/Service/RegisterDistro/ERROR_FILE_EXISTS
PS C:\Users\Administrator> wsl --list
Windows Subsystem for Linux Distributions:
docker-desktop (Default)
Ubuntu
```

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



Step 11: Accessing the windows files from Linux.

```
Arraysum.sh bc1.sh bf2.sh bs2.sh bsubs1.sh bw3.sh p10.sh p5.sh script1.sh bc2.sh bf4.sh bs4.sh bsubs2.sh bw4.sh p11.sh p5.sh script1.sh bc2.sh bf4.sh bs4.sh bsubs3.sh bw6.sh p12.sh p6.sh sumof2.sh b3.sh bs0.sh bs0.sh bb0.sh p13.sh p7.sh sumof2.sh sumof2.sh bc3.sh bc4.sh bfun1.sh bs5.sh bsubs4.sh bw6.sh p13.sh p7.sh sumof2.sh.save b4.sh bc5.sh bfun2.sh bs6.sh bu1.sh goodmorning.sh p14.sh p8.sh your_script.sh b5.sh bc6.sh bfun3.sh bs2.sh bw9.sh bs5.sh bc6.sh bfun4.sh bs52.sh bu5.sh bc7.sh bfun4.sh bs52.sh bu5.sh bc7.sh bfun4.sh bs52.sh bw1.sh new-git-repo p15.sh p9.sh p3.sh p3.sh bc3.sh bc7.sh bf1.sh b5.sh bc5.sh bc8.sh bc8.sh
```

Step 12: Executing the linux commands from windows.

```
## Communication Windows Power that

| Communication Windows Power that | Communication | Comm
```

## **Step 13:** Run Windows commands from Linux.

```
PS C:\Users\Administrator> explorer.exe
PS C:\Users\Administrator> notepad.exe /.bashrc
PS C:\Users\Administrator> _
```

