How to install one or more linux distributions on Windows 10 or higher using WSL or Windows Subsystem for Linux

WSL stands for Windows Subsystem for Linux.

Using WSL you can install one or more than one Linux Distributions on windows 10 or higher and also you can remove any linux distributions you don't want any more.

WSL is alternative for creating Virtual Machines.

WSL prerequisites

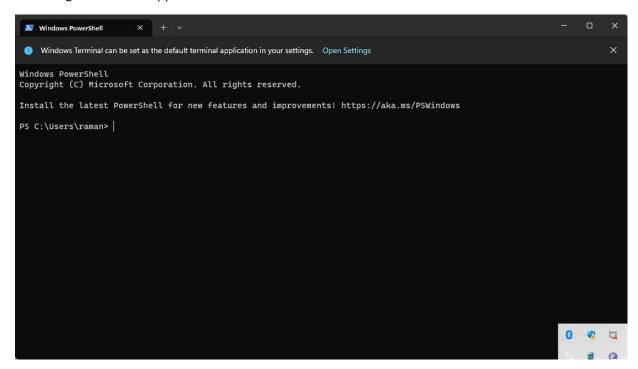
- You need Windows 10 or higher
- Virtualization Settings enabled in BIOS.
- Internet Connection

How to install WSL

Open terminal in Windows 10 or higher

Go to Search in Windows and open terminal

Following window will appear



To install wsl

Write command wsl -install

This command will install wsl and ubuntu which is a free linux distribution by default.

After that a reboot is required.

Now to go to Ubuntu Operating System type ubuntu in search bar and press enter , ubuntu will open up.

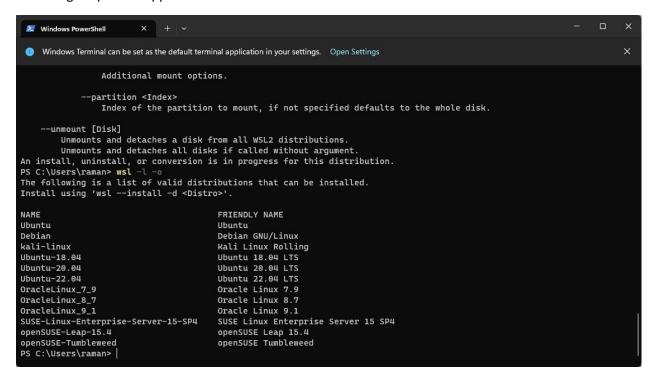
To see the list of linux distributions you can install with wsl

Type command

Wsl-I-o

-I stands for list and -o stands for online

Following output will appear



To install Debian Linux distribution

Type command

Wsl -install -d Debian

-d means you are installing a linux distribution

Following output will appear

```
PS C:\Users\raman> wsl --install -d Debian
Installing: Debian GNU/Linux
Debian GNU/Linux has been installed.
Launching Debian GNU/Linux...
PS C:\Users\raman>
```

And Debian will be launched in another window

It will ask for new UNIX username

Enter root as a new unix username and password

Following window will appear

```
@ raman@LAPTOP-G4T4EDUV: ~

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: root
adduser: The user `root' already exists.
Enter new UNIX username: raman
New password:
Retype new password:
password updated successfully
Installation successful!
raman@LAPTOP-G4T4EDUV:~$
```

Now to exit the linux distribution command line type exit.

To see the list of linux distributions installed

Type command

Wsl -l

And list of linux distributions installed under windows subsystem for linux will be listed

```
PS C:\Users\raman> wsl -l
Windows Subsystem for Linux Distributions:
docker-desktop (Default)
Ubuntu
docker-desktop-data
Debian
SUSE-Linux-Enterprise-Server-15-SP4
PS C:\Users\raman>
```

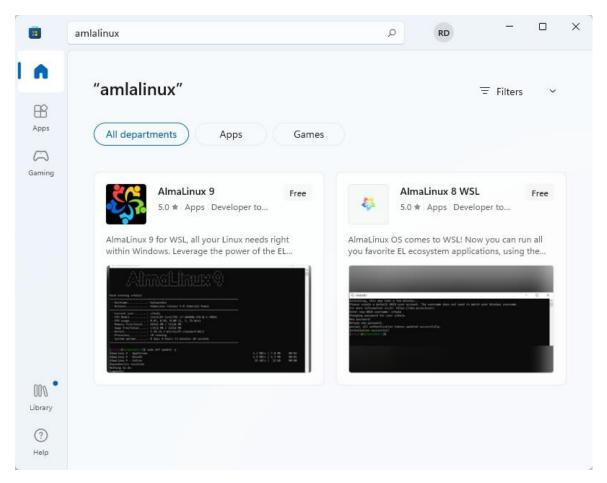
If the linux distribution is not available in wsl you can install it from Microsoft store

Open Microsoft store by clicking on icon next to search bar



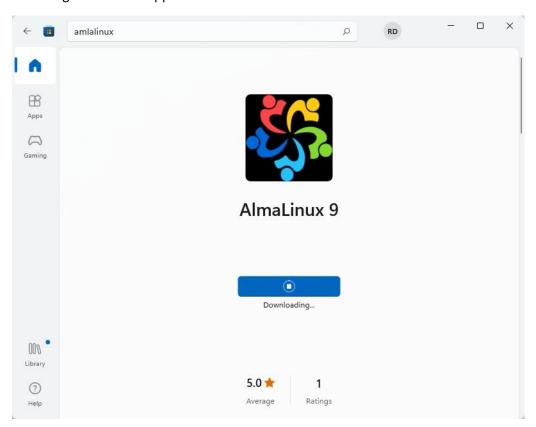
Type Amlalinux in Microsoft Store

Following window will appear



Click on AmlaLinux Icon and select Get

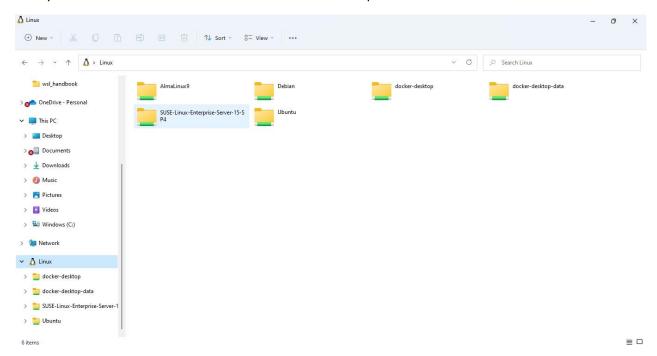
Following window will appear



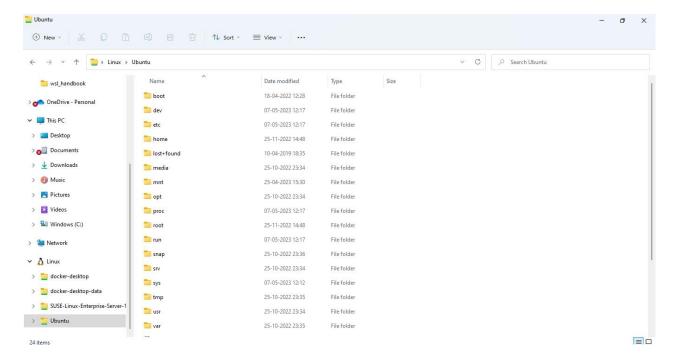
After successful installation button will change to open

Click on Open and following window will appear

Now you can see installed linux distributions in windows explorer.



To see files and directories under Ubuntu double click on Ubuntu and files and directories will be opened up in file explorer.



How to uninstall or remove a linux distribution from wsl

Type command

Wsl -unregister Debian

Above command will uninstall Debian linux distribution from wsl.

Now type command

Wsl -l

And you will not see Debian distribution in the list.

How to uninstall Debian App

Go to Installed Apps and right on dot button and select Uninstall and Debian will be installed.

This is the way you can install and uninstall linux distributions from Windows Subsystem for Linux or WSL.