# **WSL Subsystem for Linux Assignment**

#### Download linux

```
Windows PowerShell

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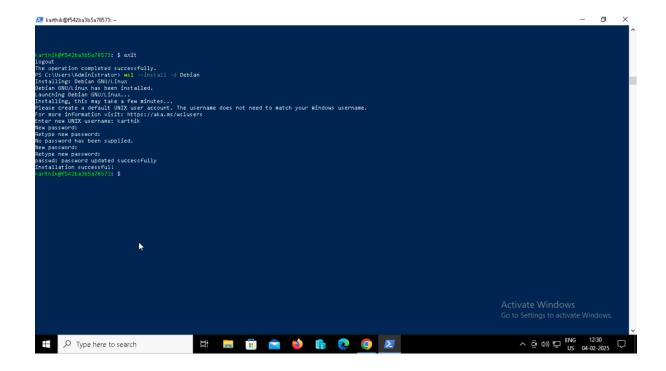
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Administrator> wsl --install

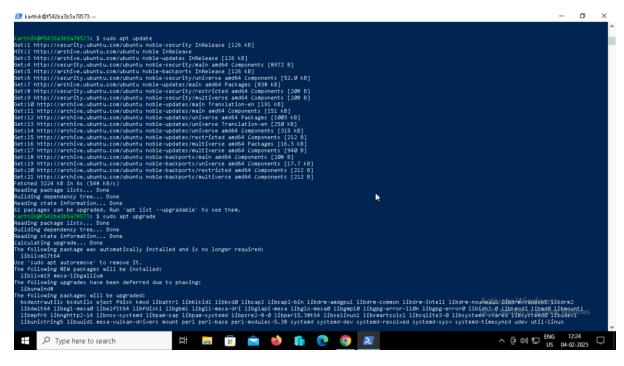
Ubuntu is already installed.

Launching Ubuntu...
```

To install the default Ubuntu 20.04 distro and To install a specific distro by name, such as Debian, enter:



## **Update Linux**



#### **SUDO APT UPGRADE**

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

```
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### Following additional parkages will be installed:

| iloxal2-utils libssiti.l vsltproc

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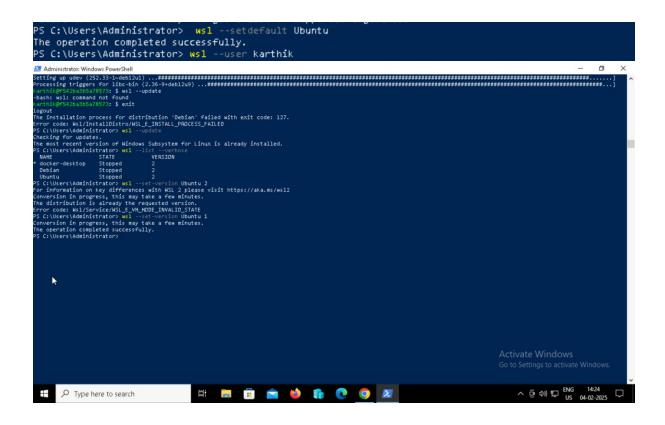
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| iloxal2-utils libssiti.l vsl saitproc
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```

### Set a Default Linux Distribution

One Linux distribution must be set as the default when you have more than one installed. This will be used when wsl is entered in a Windows Powershell terminal.



```
The installation process for distribution 'Debian' failed with exit code: 127.
Error code: Wsl/InstallDistro/WSL_E_INSTALL_PROCESS_FAILED
PS C:\Users\Administrator> wsl --update
Checking for updates.
The most recent version of Windows Subsystem for Linux is already installed.
PS C:\Users\Administrator>
```

## Run Linux as a Specific User

```
PS C:\Users\Administrator> wsl --setdefault Ubuntu
The operation completed successfully.
PS C:\Users\Administrator> wsl --user karthik
```

```
PS C:\Users\Administrator> <mark>ubuntu config --default-user karthik</mark>
PS C:\Users\Administrator> touch /etc/wsl.conf
```

For other distros that aren't the WSL Windows default, define a user by logging on to the distro and creating/editing /etc/wsl.conf:

```
karthik@f542ba3b5a78573:/mnt/c/Users/Administrators exit
logout

S C:\Users\Administrator> wsl --terminate Debian
The operation completed successfully.

root@f542ba3b5a78573:-# touch /etc/wsl.conf
root@f542ba3b5a78573:-# nano /etc/wsl.conf
```

### **Access Linux Files from Windows**

```
PS C:\Users\Administrator> wsl
Arthik@F542ba3b5a78573:/mnt/c/Users/Administrator$ exit
logout
PS C:\Users\Administrator> cd \\wsl$\Ubuntu\home\karthik
PS Microsoft.PowerShell.Core\FileSystem::\\wsl$\Ubuntu\home\karthik> cd /mnt/c/Users/<your_windows_username>
```

## **Install Applications**

#### Git on Ubuntu is installed using:

```
573:~$ sudo apt-get install -y nodejs
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
he following additional packages will be installed:
libc-ares2 libnode108 libuv1 node-acorn node-busboy node-cjs-module-lexer node-undici node-xtend nodejs-doc
Suggested packages:
 nom
The following NEW packages will be installed:
libc-ares2 libnode108 libuv1 node-acorn node-busboy node-cjs-module-lexer node-undici node-xtend nodejs nodejs-doc
O upgraded, 10 newly installed, O to remove and O not upgraded.
Weed to get 15.1 MB of archives.
After this operation, 70.0 MB of additional disk space will be used.
5et:1 http://deb.debian.org/debian bookworm/main amd64 libc-ares2 amd64 1.18.1-3 [102 kB]
et:2 http://deb.debian.org/debian bookworm/main amd64 libuv1 amd64 1.44.2-1+deb12u1 [136 kB]
iet:3 http://deb.debian.org/debian bookworm/main amd64 node-xtend all 4.0.2-3 [3,932 B]
set:4 http://deb.debian.org/debian bookworm/main amd64 nodejs amd64 18.19.0+dfsg-6∼deb12u2 [319 kB]
set:5 http://deb.debian.org/debian bookworm/main amd64 node-acorn all 8.8.1+ds+~cs25.17.7-2 [128 kB]
set:6 http://deb.debian.org/debian bookworm/main amd64 node-cjs-module-lexer 🕅 1 1.2.2+dfsg-5 [30.1 kB]
set:7 http://deb.debian.org/debian bookworm/main amd64 node-busboy all 1.6.0+~cs2.6.0-2 [16.9 kB]
set:8 http://deb.debian.org/debian bookworm/main amd64 node-undici all 5.15.0+dfsg1+~cs20.10.9.3-1+deb12u4 [285 kB]
5et:9 http://deb.debian.org/debian bookworm/main amd64 libnode108 amd64 18.19.0+dFsg-6∼deb12u2 [10.5 MB]
set:10 http://deb.debian.org/debian bookworm/main amd64 nodejs-doc all 18.19.0+dfsg-6∼deb12u2 [3,569 kB]
```

```
| Control | Cont
```

### **Installing Graphical Linux Applications**

withingF542bb055378573: 3 sudo apt install gedit
eading package lists... Done
uilding dependency tree... Done
eading state information... Done
eading state information... Done
advantage state information... Done
advantage state information... Done
dobus-system-bus-common dependency tree... Done
advantage state information... Done
dobus-system-bus-common dobus-sersion-bus-common dobus-sersion-bus-common dobus-system-bus-common dobus-system-bus-common-dobus-sy

