

Installing WSL

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Requirements

- This tutorial **only applies** to Windows users
- Must be running Windows 10 or higher

1 Regular installation

1. Search for *PowerShell* in Windows search
2. Right-click on the application and select "Run as administrator"
3. Enter the following command, and run it by pressing Enter

```
wsl --install
```
4. Try it out by searching for *Ubuntu*, and running the application
5. You will be asked to enter a username, which **must be lowercase**
6. You will be prompted for a password. It does not need to be particularly secure, and you **will not see it being typed**

Note : The official installation instructions can be found on the [Microsoft page on WSL](#).

2 Installing software

1. Always update before installing

```
sudo apt update  
sudo apt upgrade
```
2. Install the package. Let's try with the compiler we'll be using : g++

```
sudo apt install g++
```
3. To uninstall packages, run

```
sudo apt purge <packagename>
```

where <packagename> must be replaced by the name of the package you want to get rid of.

2.1 Qt Creator

We can install Qt Creator with the following command

```
sudo apt install qtcreator
```

(WSL 2 allows running GUI apps without configuration).

To start up Qt, one can run

```
qtcreator &
```

3 Possible errors

3.1 Error: 0x80004002 No such interface supported

In PowerShell, run

```
Enable-WindowsOptionalFeature -Online -FeatureName `
Microsoft-Windows-Subsystem-Linux
```

3.2 WSLRegisterDistribution failed with error 0x80370102

1. Search for *Configuration Panel* in Windows search
2. Select "Applications", then "Turn Windows features on or off"
3. Make sure **Hyper-V** and **Virtual Machine Platform** are enabled

3.3 When updating : Temporary failure resolving '<url>'

1. Edit the `/etc/resolv.conf` file with

```
sudo nano /etc/resolv.conf
```

and replace `nameserver 172.28.176.1` with `nameserver 8.8.8.8`
2. To make sure the change survives a reboot, edit the `/etc/wsl.conf` with

```
sudo nano /etc/wsl.conf
```

and add the following two lines

```
[network]
generateResolvConf = false
```