

Installing Windows Subsystem for Linux and Getting g++

Installing the Windows Subsystem for Linux (WSL) on your computer allows you to use the Linux terminal and most of its features on Windows. WSL only works on later versions of Windows 10.

Installing WSL:

1. Search turn Windows features on or off in the Windows search bar and open it
2. Look for Windows Subsystem for Linux, make sure the box is checked, and hit OK (You will have to restart your computer)
3. Open Microsoft Store application and search Ubuntu (This guide shows how to do it with Ubuntu, but you can use any Linux distribution in the Microsoft Store, the steps for another distribution are likely different)
4. Click on Ubuntu, hit get, and wait for it to install (You can use any version, the one with out a version number will give you the latest version of Ubuntu)
5. Launch the Ubuntu application and allow first time setup
6. Create a username and password (When entering a password, no characters will appear, but you are typing your password)

You have successfully installed and setup WSL. You can now use the terminal as you would on any Linux computer.

Getting g++:

1. Update Ubuntu with the command:
`sudo apt update`
(You will have to enter the password you set)
2. Install g++ with the command:
`sudo apt install g++`

You have successfully installed g++. You can now use g++ as you would on any Linux computer.

Accessing Your Files:

Accessing where your files are stored may be a little tricky. To access your files in Windows, you must first change into the directory /mnt, which you can do with the command:

```
cd /mnt
```

You can now use cd to access your files in Windows.

For example, if your files are stored in your documents folder you can access them by typing the command:

```
cd /mnt/c/Users/*enter your username here*/Documents
```

You want to enter the username set for your account after Users. This is likely different than the username you created for Ubuntu.

If you don't know your username, search cmd in the Windows search bar and open it. Then type the command:

```
echo %username%
```

This should be the username you want to put for *enter your username here*.

Troubleshooting:

If you are having issues with WSL, please consult the document linked below.

Link: <https://docs.microsoft.com/en-us/windows/wsl/troubleshooting>