Computer Setup Programming

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Contents

1 Windows Subsystem for Linux 2 (WSL2)

1.1 Relevant programs & setups

1.1.1 Visual Studio Code

[Download and install Visual Studio Code on Windows](#)

Go to **Extensions** with `Ctrl + Shift + X`.

Search for `Remote - WSL` and press **Install**.

You can now open any file or directory within Ubuntu by using `code <file/directory>`.

See Visual Studio Code's connection to the Ubuntu WSL by clicking on the **Remote Explorer Icon** to the left. Make sure that the dropdown menu at the top shows **WSL Targets**.

If there is a green symbol at your Ubuntu distribution, it is connected. If not, right click and press **Connect to WSL**.

You can also access your Ubuntu distribution terminal by clicking `Terminal -> New Terminal`. Press the **dropdown arrow button** at the top right of the newly opened terminal and press **Ubuntu**.

1.1.1.1 C programming

1. Install the necessary tools by running

   - `sudo apt install build-essential` for gcc

   - `sudo apt install gdb` for gdb

2. Create a new folder in the WSL where you create a C file `helloworld.c`. New folder is necessary for Visual Studio Code to realise that there is a C compiler to setup later on as it uses the open file to do the configurations.

3. Open up Visual Studio Code

4. Install the `C/C++` extenstion from Microsoft.

5. Open up the folder you created the main C file in. `File → Open Folder...`

6. Open up the `helloworld.c` file in the file explorer.

bla

784. asd

Single file compilation

Multi-file compilation

Here is some info about setting up Visual Studio Code to build and debug projects including multiple files:

https://dev.to/talhabalaj/setup-visual-studio-code-for-multi-file-c-projects-1jpi

Global multiple word search

Some times you might want to find a specific file or line of code with multiple words in it, without having to be in a direct sequence. Use this extension which automates the process of using `regex`.

Search by Alexander:

https://marketplace.visualstudio.com/items?itemName=usernamehw.search