Build the code on your laptop

Clone the repository

Main code can be found on the repository page: github.com/onsankawai/amazon-freertos-m5stickc-workshop

```
git clone https://github.com/onsankawai/amazon-freertos-m5stickc-workshop.git
```

> *Note: from now on, we'll assume your bash is in the workshop folder*

Setup your credentials

Create the aws_clientcredential_keys.h

Navigate to https://yona75.github.io/credformatter/, upload your Certificate and Private key that you downloaded in the previous step and generate an aws_clientcredential_keys.h file.

Copy aws_clientcredential_keys.h to project

Copy the file to ./amazon-freertos/demos/include/ directory by dragging it there

Edit aws_clientcredential.h

Open the aws_clientcredential.h file by double-clicking on it. And change the following values:

```
...
#define clientcredentialMQTT_BROKER_ENDPOINT "[YOUR AWS IOT ENDPOINT]"
...
#define clientcredentialIOT_THING_NAME       "[THE THING NAME YOU CREATED]"
...
#define clientcredentialWIFI_SSID            "[YOUR WIFI SSID]"
...
#define clientcredentialWIFI_PASSWORD        "[YOUR WIFI PASSOWRD]"
...
#define clientcredentialWIFI_SECURITY        eWiFiSecurityWPA2
...
```

> *Note: clientcredentialWIFI_SECURITY is defined without double quotes*

Setup the code

As of now, we move the code to the amazon-freertos folder structure to maintain most of the dependencies.

```
mv ./m5stickc ./amazon-freertos/vendors/espressif/boards
```

> *Note: TODO: see how to leverage cmake in order NOT to have to do this*

Connect your board to your laptop

Find the USB device

```
ls /dev/cu.*
```

Should return something like: /dev/cu.usbserial-29568143B4

Make a note of the "/dev/cu.usbserial-29568143B4" (copy)

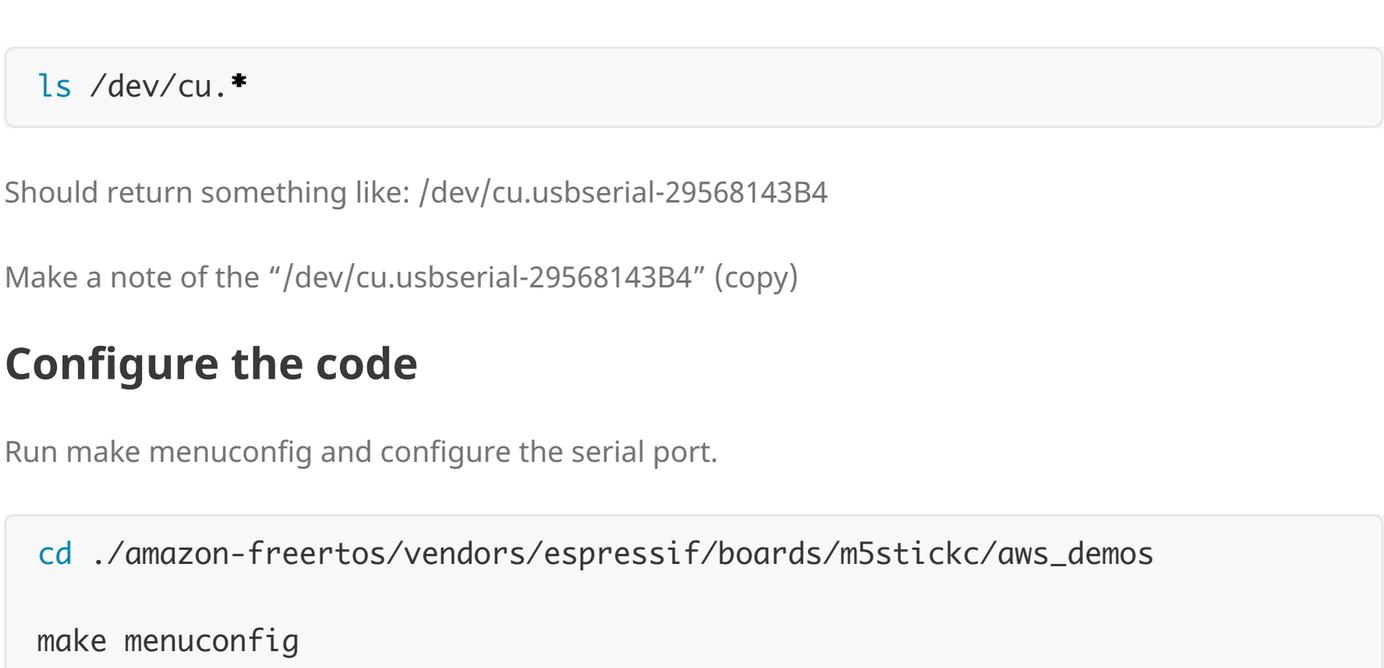
Configure the code

Run make menuconfig and configure the serial port.

```
cd ./amazon-freertos/vendors/espressif/boards/m5stickc/aws_demos

make menuconfig
```

- Select "Serial flasher config"
- Set the serial port to: [YOUR /dev/cu....]
- *Save* and then *Exit*



Compile, flash and monitor the code

```
make all -j4 && make flash && screen /dev/cu.... 115200 -L
```

> *Note: replace /dev/cu.... by your specific serial port*