Guide for ESP32

Environment Setup for ESP32

- Before start, please follow this brilliant setup guide to make your environment ready with ESP32.

Get ESP32 Sample Code

- Get IoTPractices repository via git or just download as zip :

```
$ git clone https://github.com/cagdasdoner/IoTPractices.git
```

- Now, switch to ESP32 Arduino workshop code directory :

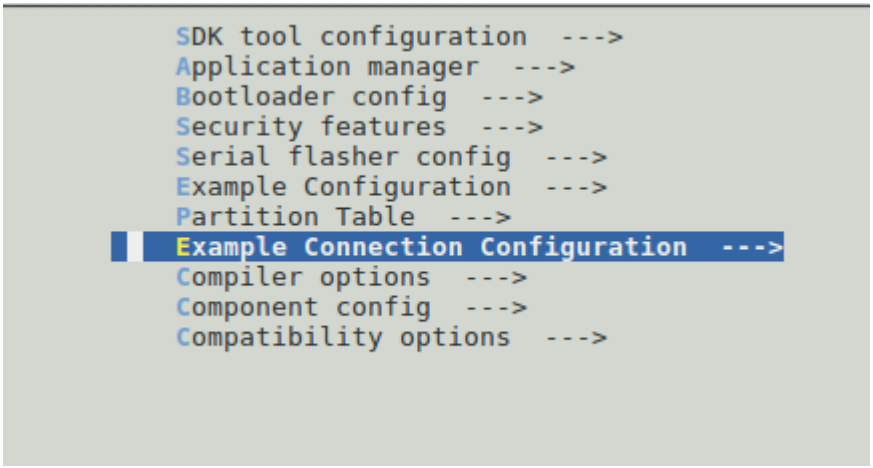
```
$ cd IoTPractices/devices/esp32
```

Configuring the Device with your Credentials

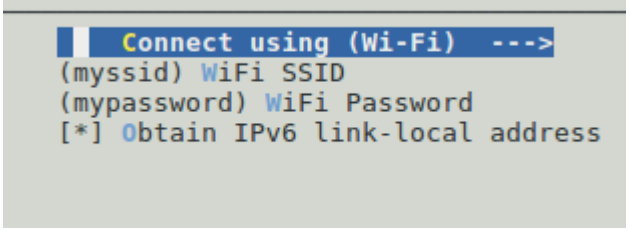
- Navigate into sample code's directory.
- Type below command to set your configurations first :

```
$ make menuconfig
```

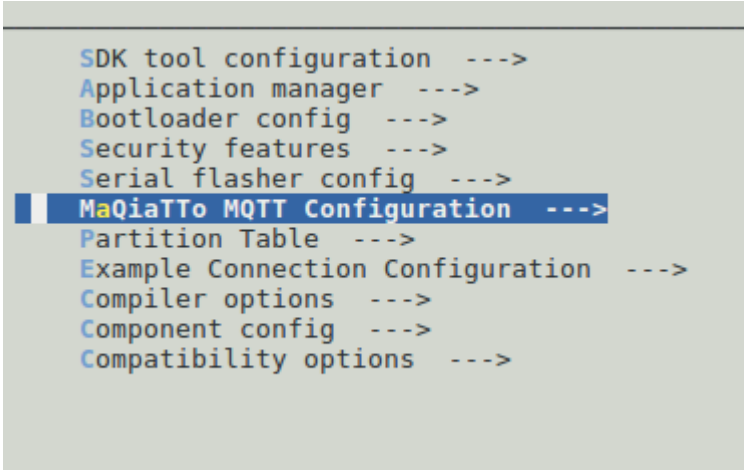
- From the opened **config menu** screen, we will first configure our Wi-Fi credentials. To do that, select **Example Connection Configuration** like given below :



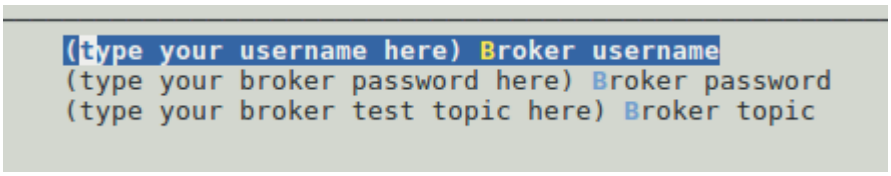
- Provide your SSID and Password into the opening screen :



- Save and exit.
- Jump into the **MaQiaTTo MQTT Configuration** tab to provide MQTT credentials of your user :



- NOTICE that, maqiatto.com will be your MQTT broker during the practice.
- You will be asked for your MQTT **username**, **password** and test **topic**. Provide them into the menu :



- Save and exit.
- Now your configuration is ready to connect to WiFi and MQTT Broker. Exit from the **menuconfig** to the console.
- After completing the steps above, you will be ready to complete given instructions and practices in workshop.

Running the Sample Code

- Be sure that your ESP32 device is connected to your PC and type the below command both to compile and flash :

```
$ make flash
```

- After it succeeds, navigate to the monitor tool with below command to check your connection :

```
$ make monitor
```

- Device will start to run and connect to maqiatto.com, which is your MQTT Broker. You can follow up the logs related with your device status.