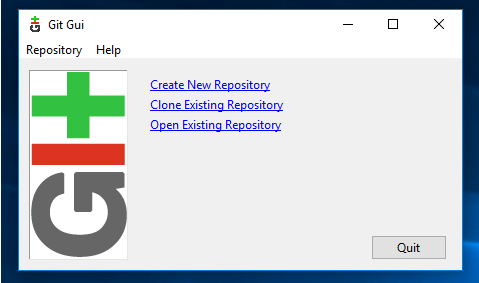
**Steps to install Arduino ESP32 support on Windows**

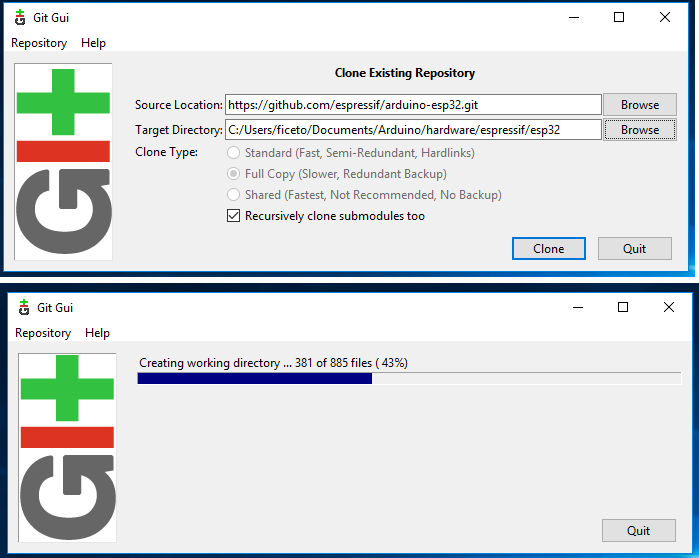
(IF YOU INSTALLED ARDUINO IDE, YOU COULD SKIP)

1. Download and install the latest Arduino IDE *Windows Installer* from <https://www.arduino.cc/en/Main/Donate>
2. Download and install Git from <https://git-scm.com/download/win>
3. Start Git GUI and run through the following steps:

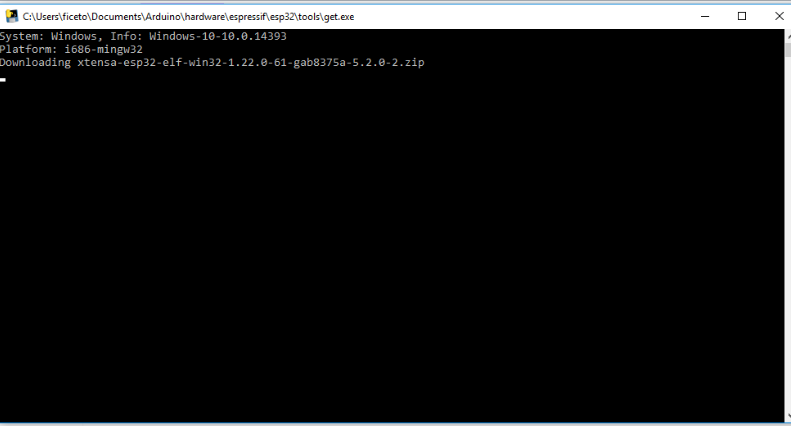
* Select Clone Existing Repository



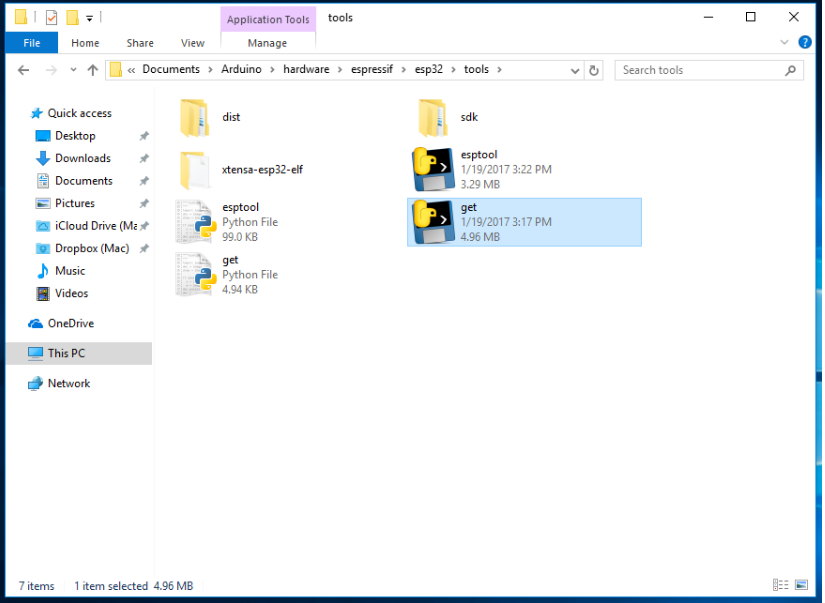
* Select source and destination
  + Sketchbook Directory: Usually C:/Users/[YOUR\_USER\_NAME]/Documents/Arduino and is listed underneath the "Sketchbook location" in Arduino preferences.
  + Source Location: https://github.com/espressif/arduino-esp32.git
  + Target Directory: [ARDUINO\_SKETCHBOOK\_DIR]/hardware/espressif/esp32
  + Click Clone to start cloning the repository



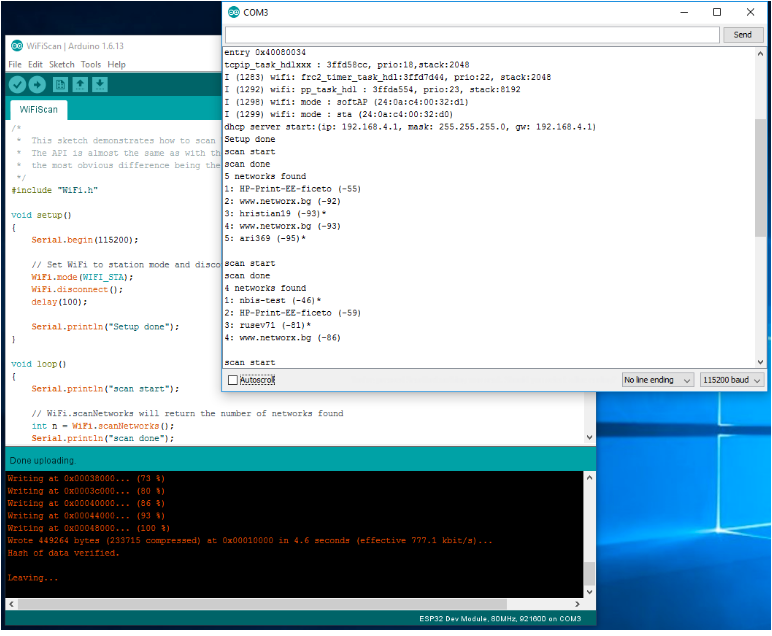
* Open a Git Bash session pointing to [ARDUINO\_SKETCHBOOK\_DIR]/hardware/espressif/esp32 and execute git submodule update --init --recursive
* Open [ARDUINO\_SKETCHBOOK\_DIR]/hardware/espressif/esp32/tools and double-click get.exe



* When get.exe finishes, you should see the following files in the directory

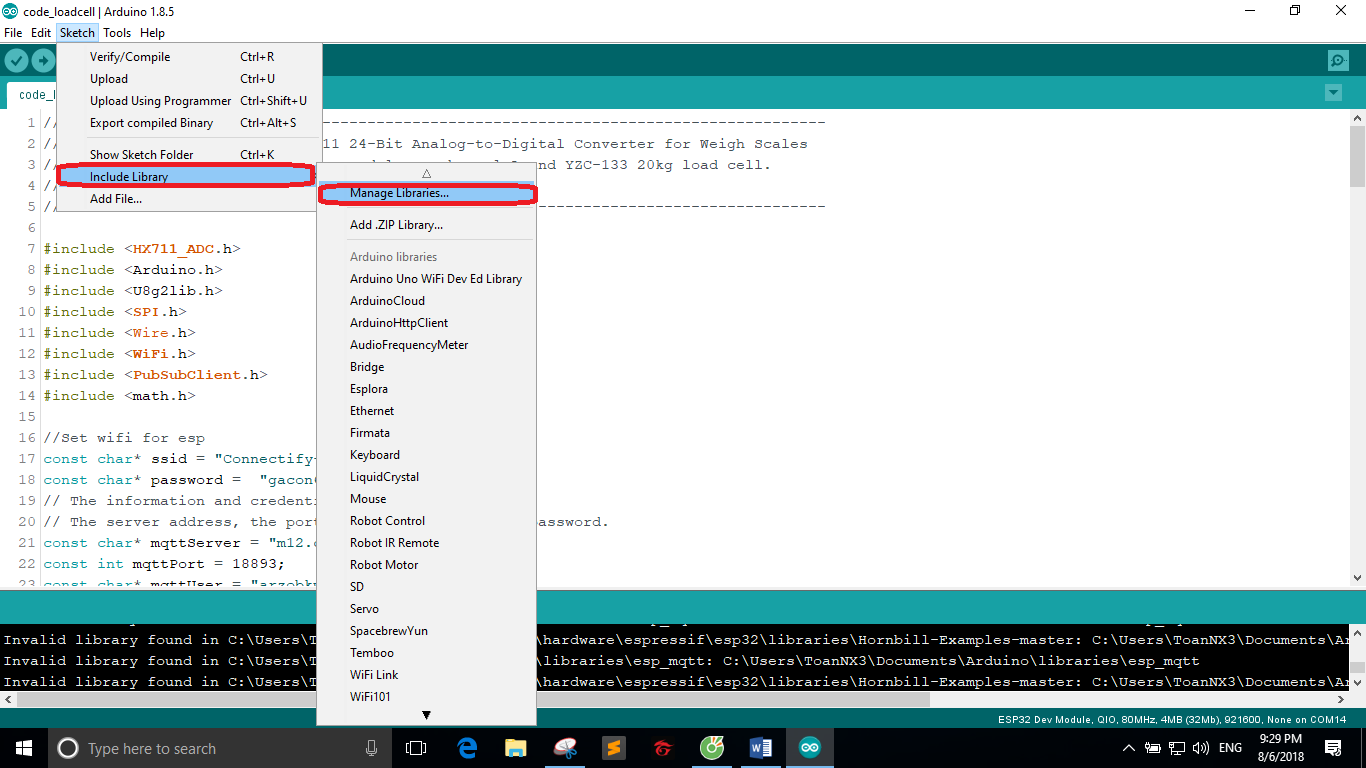


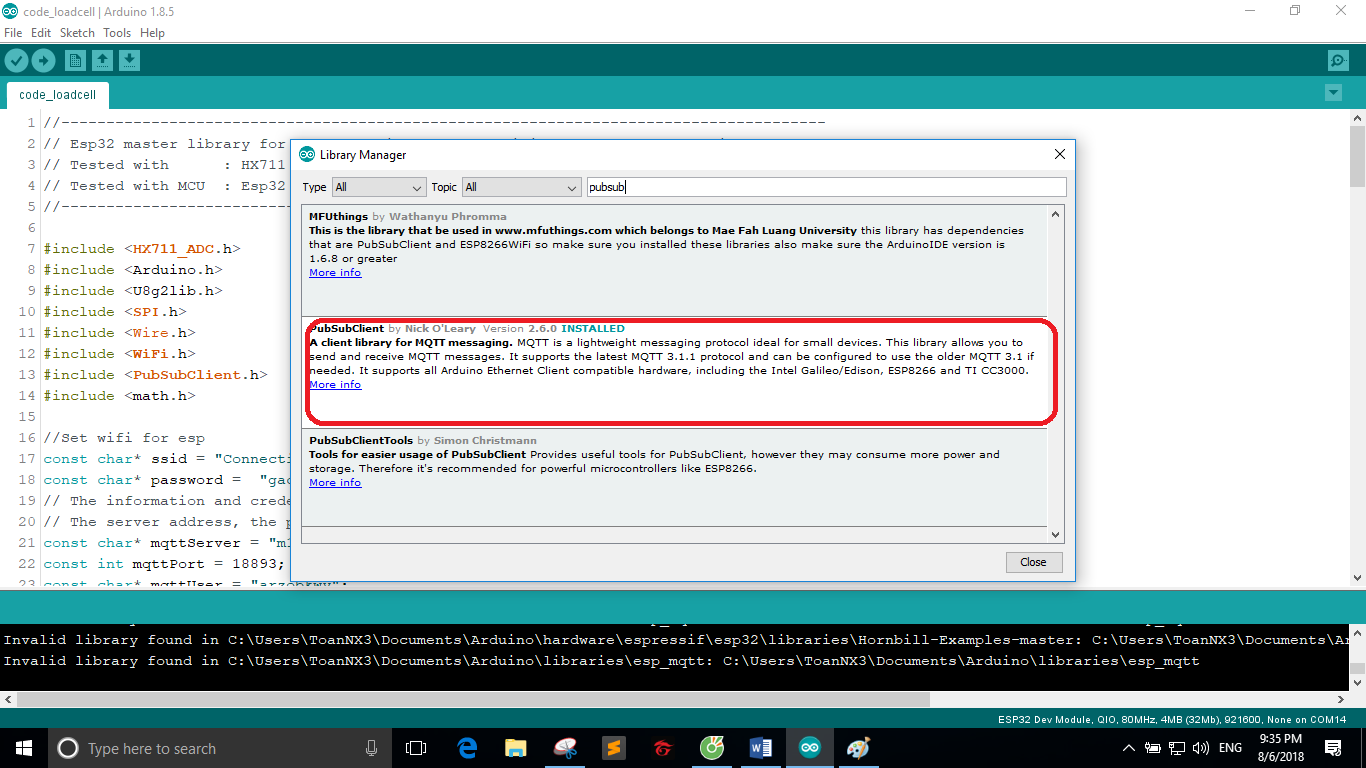
1. Plug your ESP32 board and wait for the drivers to install (or install manually any that might be required)
2. Start Arduino IDE
3. Select your board in Tools > Board menu
4. Select the COM port that the board is attached to
5. Compile and upload (You might need to hold the boot button while uploading)



# **Add Libarary PubSubclient and U8g2\_Arduino**

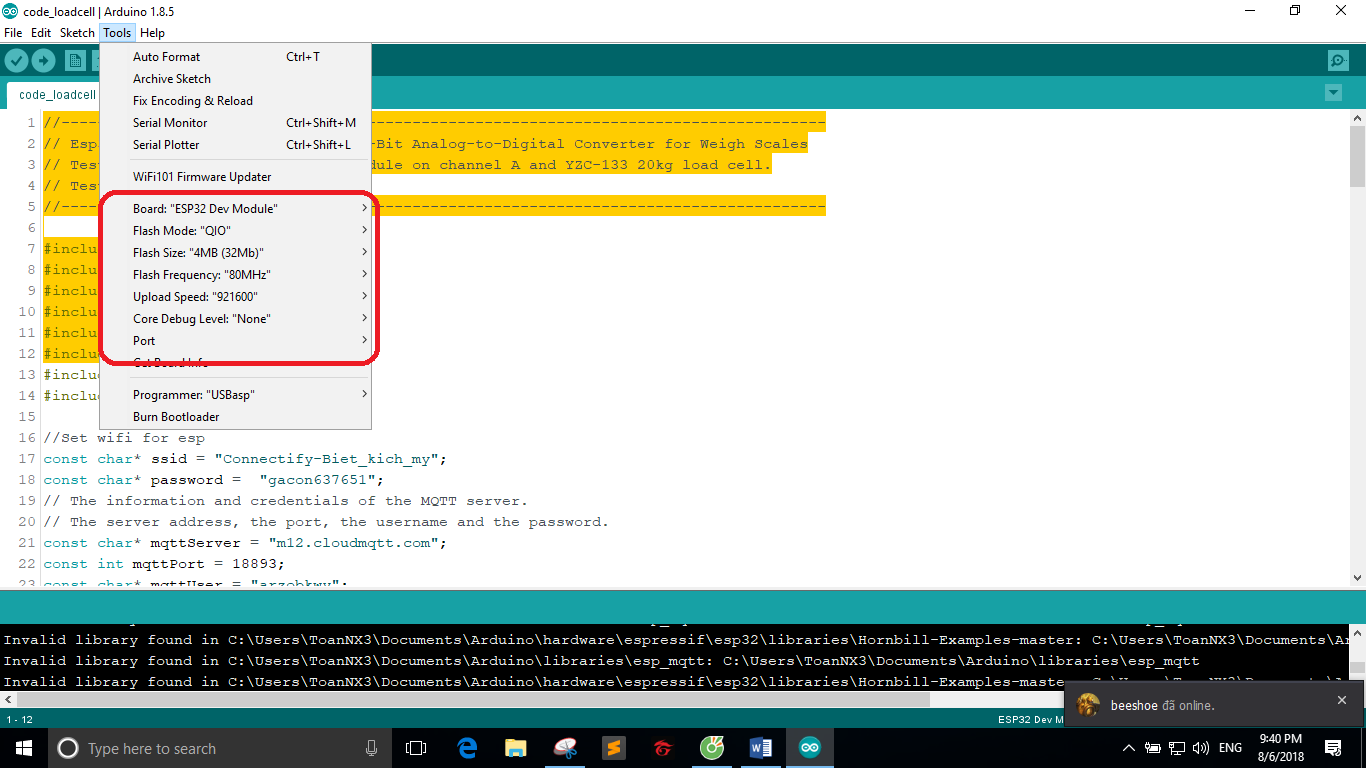
* Select sketch ->Include library –>manage libararies
* Install PubSubclient and U8g2



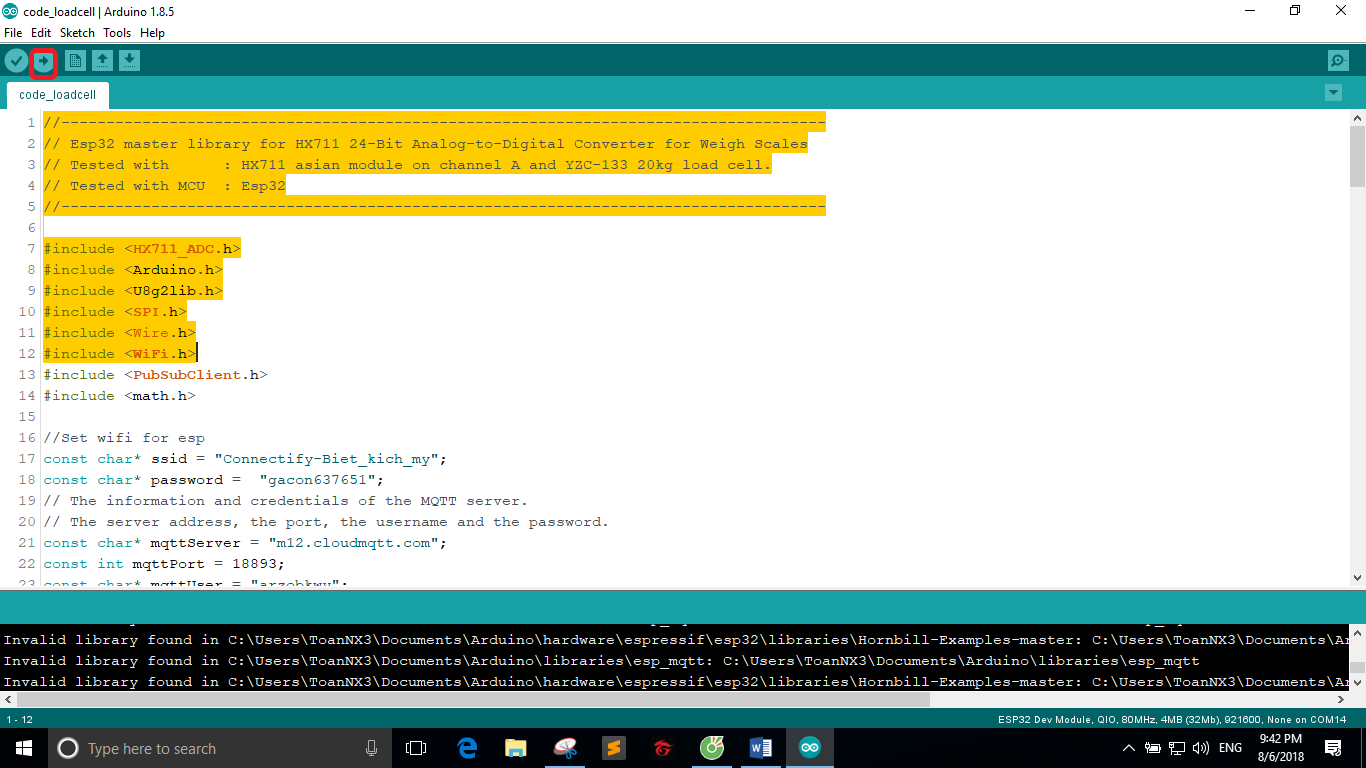


# **Upload code Esp32**

* 1. Open file \*.ino
  2. Tool -> Board->select Esp32 dev module and config value same the picture

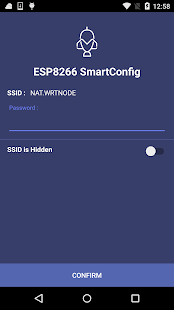


* 1. Then click upload.



# **Send data to server**

1. Create an MQTT Broker With CloudMQTT : <https://www.youtube.com/watch?v=DPmFJLXhj80&t=1s>
2. MQTT + CloudMQTT + App de Android LinearMQTT: <https://www.youtube.com/watch?v=MuTaFhuMdAo>
3. App esp8266 smartconfig



Using app smartconfig config username and pass wifi for esp:

Open blutooth smartphone and open app -> insert SSID and password ->Then select confirm.

**Answer the question**: if you want to change the cloud instead cloudmqt, can you change it?

Yes, you can change broker server:

* The information and credentials of the MQTT server.
* The server address, the port, the username and the password.

const char\* mqttServer = "m12.cloudmqtt.com";

const int mqttPort = 18893;

const char\* mqttUser = "arzobkwy";

const char\* mqttPassword = "n8-rY11a0Z2L";