

ARDUINO SPARKFUN THING SETUP

MICROSOFT AZURE

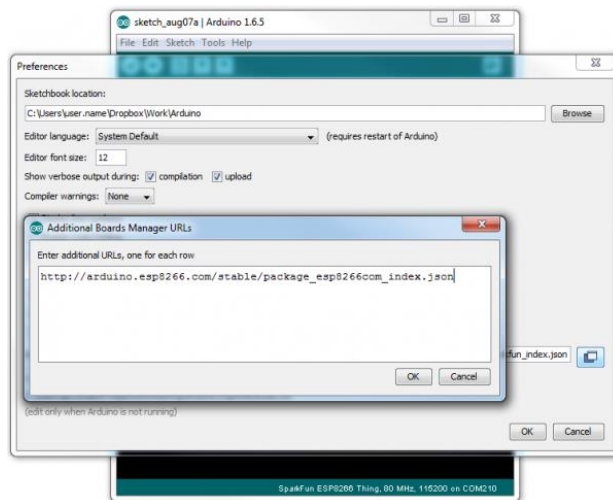
MICROSOFT

ARDUINO SPARKFUN THING SETUP

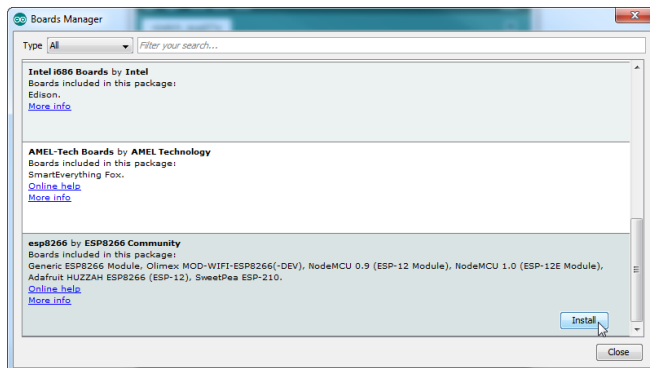
SETUP BOARD MANAGER FOR SPARKFUN

To begin, you'll need to point the Arduino IDE board manager to a custom URL. Open up Arduino, then go to the Preferences (**File > Preferences**). Then, towards the bottom of the window, paste this URL into the "Additional Board Manager URLs" text box:

```
http://arduino.esp8266.com/stable/package_esp8266com_index.json
```



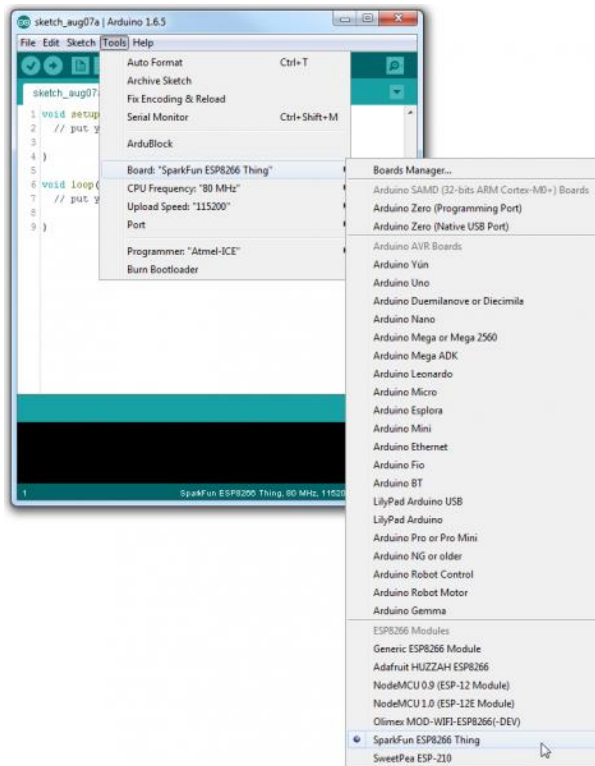
Hit OK. Then navigate to the Board Manager by going to **Tools > Boards > Boards Manager**. Look for **esp8266**. Click on that entry, then select **Install**.



The board definitions and tools for the ESP8266 include a whole new set of gcc, g++, and other reasonably large, compiled binaries, so it may take a few minutes to download and install (the archived file is ~110MB). Once the installation has completed, an Arduino-blue "INSTALLED" will appear next to the entry.

SELECTING THE ESP8266 THING BOARD

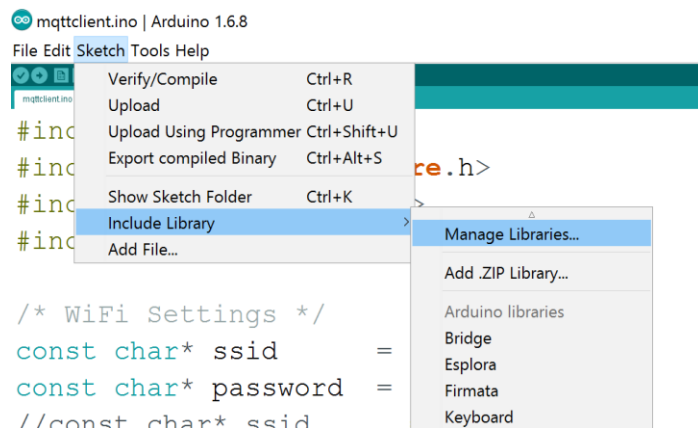
With the Board add-on installed, all that's left to do is select "SparkFun ESP8266 Thing" from the Tools > Boards menu.



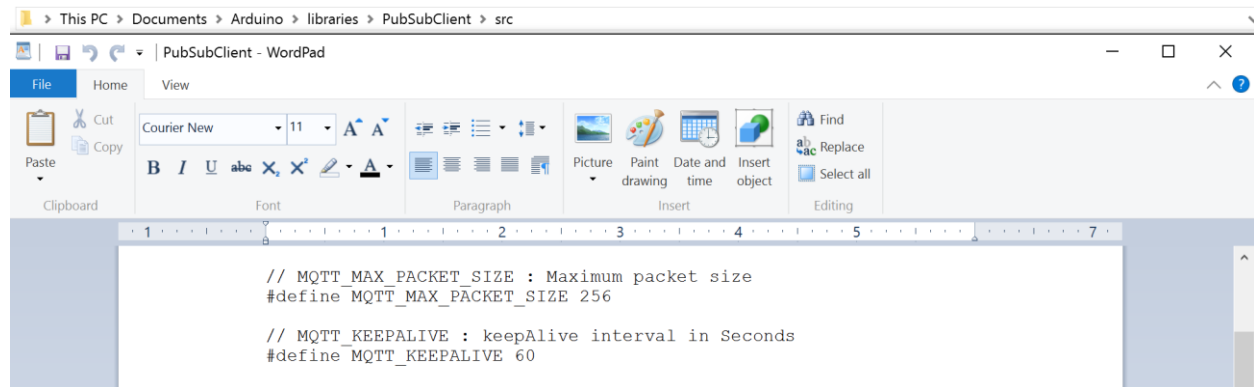
INSTALL PUBSUB CLIENT

Click SKETCH > INCLUDE LIBRARY > MANAGE LIBRARIES

Search for PubSub and install the Library: "PubSubClient by Nick O'Leary"



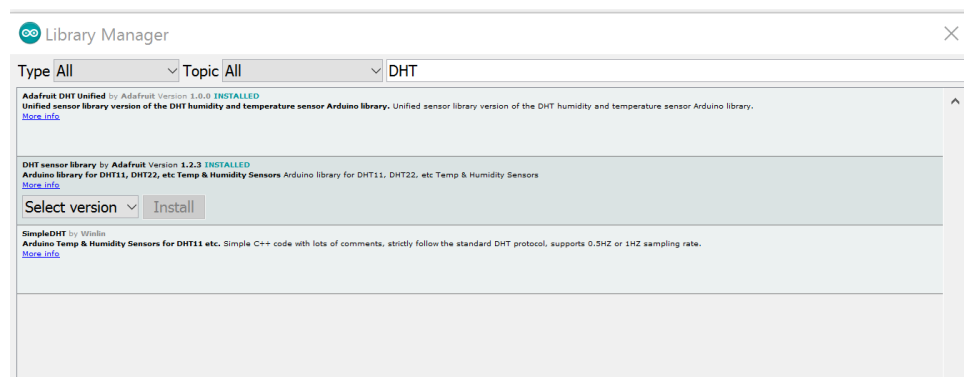
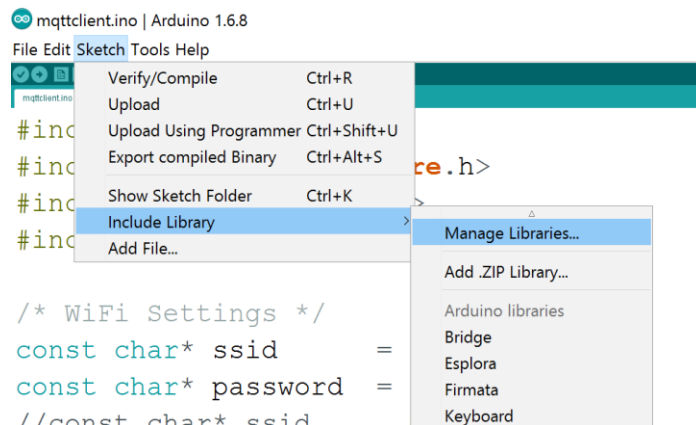
Update MQTT_MAX_PACKET_SIZE to 256 in PubSubClient.h



INSTALL DHT SENSOR CLIENT

Click SKETCH > INCLUDE LIBRARY > MANAGE LIBRARIES

Search for DHT Sensor library by Adafruit



Arduino Code: <https://github.com/rangv/azure-iotHub-arduino-temparature-humidy-sensor>