

ECE 1188 Lab 6 Report

Adam Brower

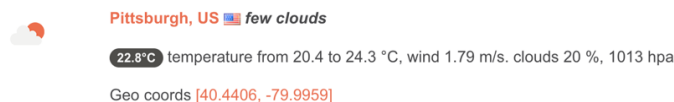
1.

```
adamrower -- screen /dev/tty.usbmodemM43210051 115200 - SCREEN -- 141x34
~/spring24/ece_1896 -- -zsh
...
-- screen /dev/tty.usbmodemM43210051 115200 - SCREEN
+

Fetching weather from openweathermap.org
Starting configureSimpleLinkToDefaultState(); ... Completed
Starting sl_Start(0, 0, 0); ... Completed
Starting establishConnectionWithAP(); ... Connected
Starting sl_NetAppDnsGetHostByName(api.openweathermap.org) ... Completed
Creating a socket ... Completed
Connecting to this socket ... Completed
Sending this TCP payload to socket
GET /data/2.5/weather?q=pittsburgh&APPID=baf512bdb9a9b977feb6e42fe36975a3c&units=imperialHTTP/1.1
Host:api.openweathermap.org
Accept: */*

Received this response from server
{"coord":{"lon":-79.9959,"lat":40.4406},"weather":[{"id":801,"main":"Clouds","description":"few clouds","icon":"02d"}],"base":"stations","main":{"temp":296.16,"feels_like":295.69,"temp_min":293.89,"temp_max":297.49,"pressure":1013,"humidity":45},"visibility":10000,"wind":{"speed":4.02,"deg":5,"gust":4.47},"clouds":{"all":20},"dt":1713210487,"sys":{"type":2,"id":2083653,"country":"US","sunrise":1713177636,"sunset":1713225524},"timezone":-14400,"id":5286379,"name":"Pittsburgh","cod":200}
Push LaunchPad switch to run again
Starting sl_NetAppDnsGetHostByName(api.openweathermap.org) ... Completed
Creating a socket ... Completed
Connecting to this socket ... Completed
Sending this TCP payload to socket
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Push LaunchPad switch to run again
```



2.

At router RSSI : -37
5 foot RSSI: -41
10 foot RSSI: -43

The RSSI value decreased the further from the router I got

3.

MQTTool

Topic: ajk179_topic

Message: message from ajk179

QoS: 0

Retain: ☐

Publish

Status: Publish succeeded (message!)

Connection

connected

Publish

Topic: testtopic/1

QoS: 0

Retain: ☐

Message

publish

Messages

2024-04-16 14:19:13	Topic: ajk179_topic	Qos: 0
message from ajk179		
2024-04-16 14:19:06	Topic: ajk179_topic	Qos: 0
message		

Subscriptions

Add New Topic Subscription

Qos: 2

ajk179_topic/#

4.

MQTT Communication: <https://youtube.com/shorts/BoqOnz72ZCU?feature=share>

5.

I will be submitting late for part 5 because of EXPO thank you so much