

sketch.ino

diagram.json

libraries.txt

Library Manager

1

#include <WiFi.h>//library for wifi

2

#include <PubSubClient.h>//library for MQTT

3

4

int trigpin=2;

5

int echopin=4;

6

String data3;

7

8

void callback(char\* subscribetopic, byte\* payload, unsigned int payloadLength);

9

#define ORG "pvuj3h"//IBM ORGANITION ID

10

#define DEVICE\_TYPE "ultrasonic"//Device type mentioned in ibm watson IOT Platform

11

#define DEVICE\_ID "1234"//Device ID mentioned in ibm watson IOT Platform

12

#define TOKEN "12345678" //Token

13

14

char server[] = ORG ".messaging.internetofthings.ibmcloud.com";// Server Name

15

char publishTopic[] = "iot-2/evt/Data/fmt/json";// topic name and type of event perform a

16

char subscribetopic[] = "iot-2/cmd/command/fmt/String";// cmd REPRESENT command type AND

17

char authMethod[] = "use-token-auth";// authentication method

18

char token[] = TOKEN;

19

char clientId[] = "d:" ORG ":" DEVICE\_TYPE ":" DEVICE\_ID;//client id

20

21

WiFiClient wificlient; // creating the instance for wificlient

22

PubSubClient client(server, 1883, callback ,wificlient); //calling the predefined client

23

24

25

void setup() {

26

Serial.begin(9600);

27

Serial.println("Hello, ESP32!");

28

pinMode(2, OUTPUT);

29

pinMode(4, INPUT);

30

delay(10);

31

wificlient.connect();

32

mqtt.connect();

33

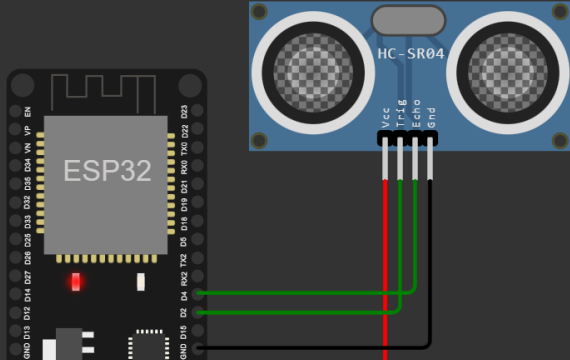
}

34

Simulation

00:15.125

40%



Connecting to ...

WiFi connected

IP address:

10.10.0.2

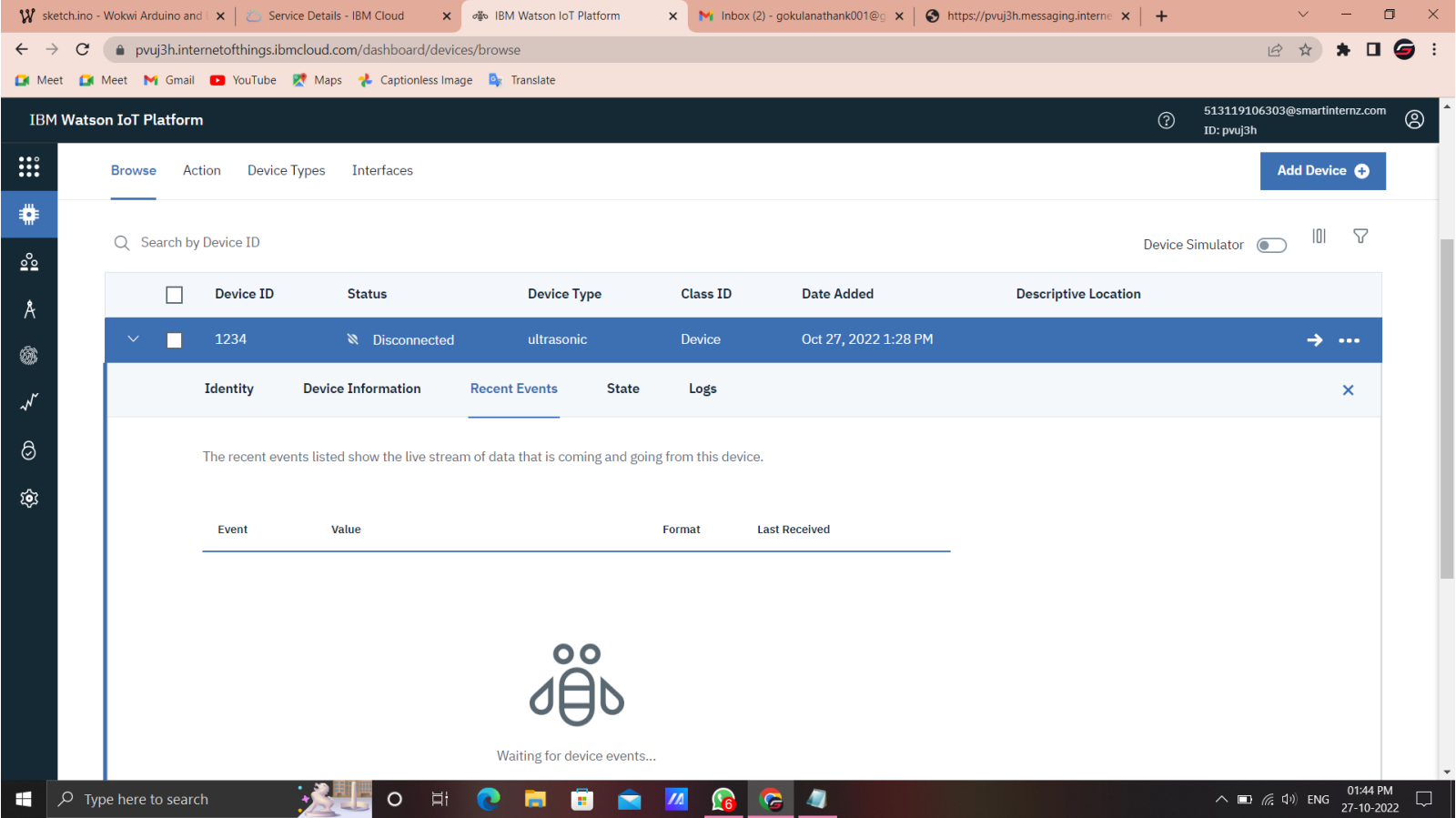
Reconnecting client to pvuj3h.messaging.internetofthings.ibmcloud.com

.....

Type here to search

01:44 PM

27-10-2022



Search by Device ID

Device Simulator



	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
▼	1234	Disconnected	ultrasonic	Device	Oct 27, 2022 1:28 PM	→ ...

Identity Device Information **Recent Events** State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
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Waiting for device events...

