

WOKWI

SAVE

SHARE

sketch.ino

Docs

SIGN UP

sketch.ino

diagram.json

libraries.txt

Library Manager

```

1 #include <WiFi.h>
2 #include <PubSubClient.h>
3 WiFiClient wificlient;
4 String data3;
5 #define orgId "3nc6gc"
6 #define DEVICE_TYPE "node"
7 #define DEVICE_ID "008"
8 #define TOKEN "6383637992"
9 #define speed 0.034
10 #define led 14
11 char server[] = orgId".messaging.internetofthings.ibmcloud.com";
12 char publishTopic[] = "iot-2/evt/event2/fmt/json";
13 char topic[] = "iot-2/cmd/home/fmt/String";
14 char authMethod[] = "use-token-auth";
15 char token[] = TOKEN;
16 char clientId[] = "d:" orgId ":" DEVICE_TYPE ":" DEVICE_ID;
17 PubSubClient client(server, 1883, wificlient);
18
19
20
21 const int trigpin=5;
22 const int echopin=18;
23 String command;
24 String data="";
25
26 long duration;
27 float dist;
28
29
30
31 void setup()
32 {
33   Serial.begin(115200);
34   pinMode(led, OUTPUT);
35   pinMode(trigpin, OUTPUT);
36   pinMode(echopin, INPUT);

```

Simulation

01:16.428

97%

Editing Ultrasonic Distance Sensor

Distance: 65cm

Publish OK

Sending payload: {"Alert!! Alert!! Distance":64.96}

Publish OK

Sending payload: {"Alert!! Alert!! Distance":64.96}

Publish OK

IBM Watson IoT Platform

713319ec008@smarthinternz.com

ID: 3nc6gc

Browse

Action

Device Types

Interfaces

Add Device

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
008	Disconnected	node	Device	10 Nov 2022 10:04	

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
event2	{"Alert!! Alert!! Distance":65.03}	json	a few seconds ago
event2	{"Alert!! Alert!! Distance":64.96}	json	a few seconds ago
event2	{"Alert!! Alert!! Distance":64.96}	json	a few seconds ago
event2	{"Alert!! Alert!! Distance":64.96}	json	a few seconds ago
event2	{"Alert!! Alert!! Distance":64.96}	json	a few seconds ago

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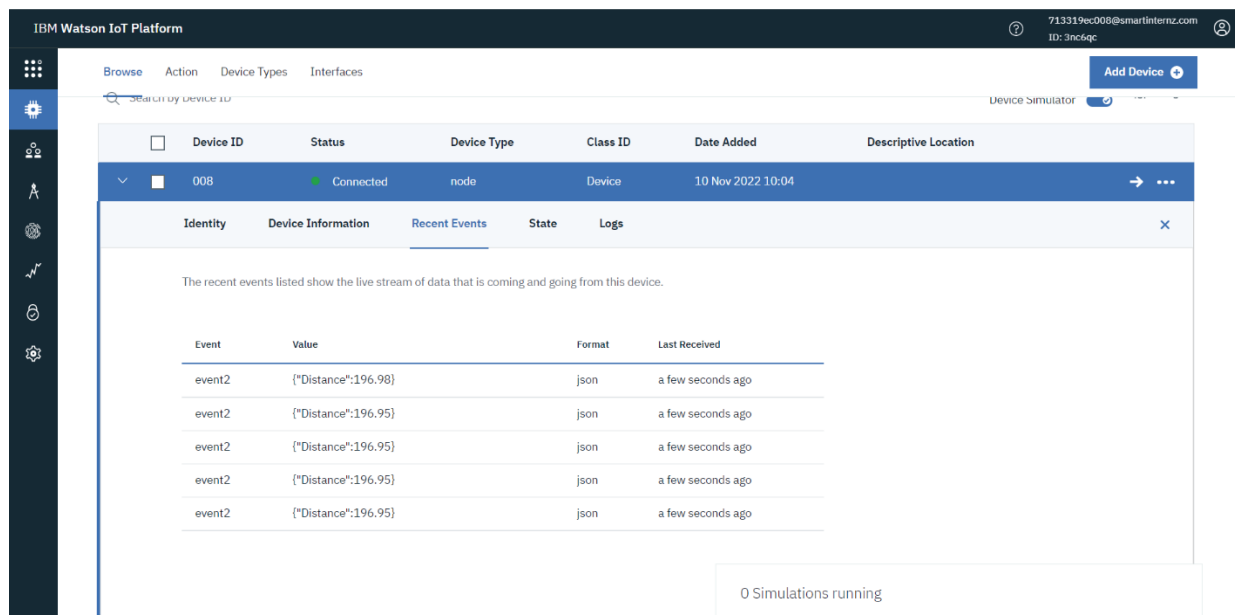
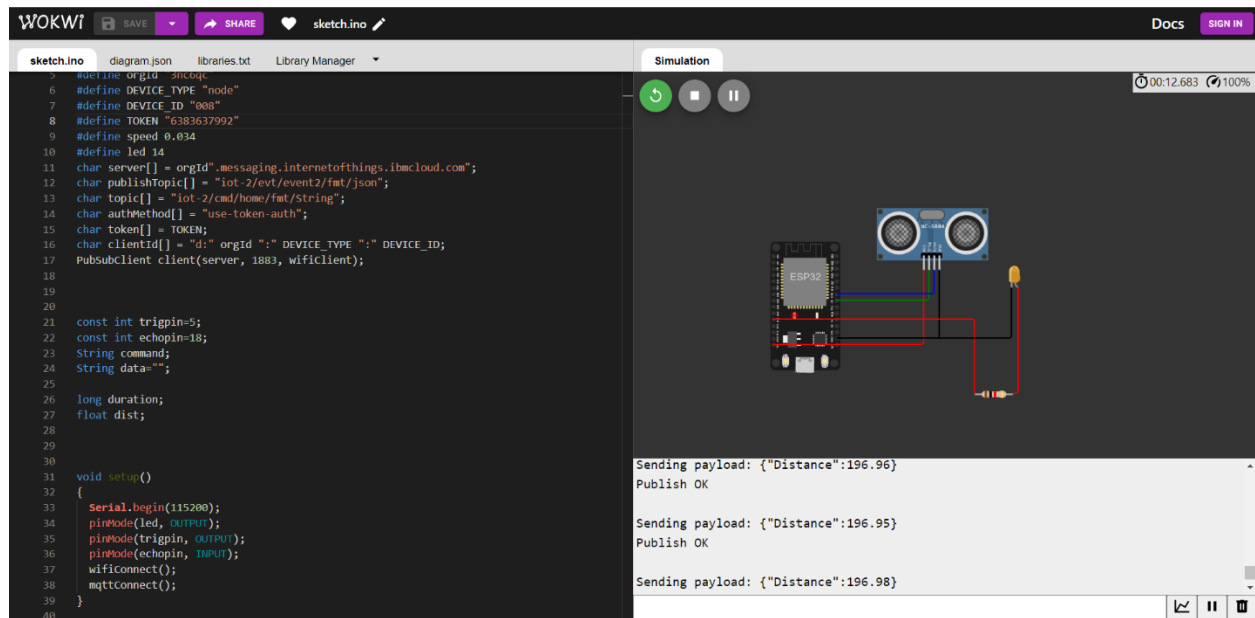
1-1 of 1 item

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Team ID: PNT2022TMID17581

WOKWI SHARE LINK:

<https://wokwi.com/projects/347913412427121235>