

IBM CLOUD SERVICES

Team Id	PNT2022TMID11549
Maximum Marks	4 Marks

WOKWI

SAVE

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Docs

SIGN IN

sketch.ino

diagram.json

libraries.txt

Library Manager

```

1 #include "DFRobot_BME280.h"
2 #include "Wire.h"
3 #include <WiFi.h>
4 #include <WiFiClient.h>
5 #include <PubSubClient.h>
6 const char* ssid = "realme7";
7 const char* password = "12345678";
8 #define ORG "ay8bvr"
9 #define DEVICE_TYPE "ESP32_Controller"
10 #define DEVICE_ID "12345"
11 #define TOKEN "syvezHEADX0CZgk1=="
12 char server[] = ORG ".messaging.internetofthings.ibmcloud.com";
13 char pubTopic[] = "iot-2/evt/status/fmt/json";
14 char authMethod[] = "use-token-auth";
15 char token[] = TOKEN;
16 char clientId[] = "d:" DEVICE_TYPE ":" DEVICE_ID;
17 long now;
18 WiFiClient wifiClient;
19 PubSubClient client(server, 1883, NULL, wifiClient);
20 typedef DFRobot_BME280_IIC BME; //
21 BME bme(BMI088, 0x77); // select TwoWire peripheral and set sensor address
22 #define SEA_LEVEL_PRESSURE 1015.0f
23 void printLastOperateStatus (BME::eStatus_t eStatus)
24 {
25     switch (eStatus) {
26     case BME::eStatusOK: Serial.println("everything ok"); break;
27     case BME::eStatusErr: Serial.println("unknown error"); break;
28     case BME::eStatusErrDeviceNotDetected: Serial.println("device not detected"); break;
29     case BME::eStatusErrParameter: Serial.println("parameter error"); break;
30     default: Serial.println("unknown status"); break;
31     }
32 }
33 void setup()
34 {
35     Serial.begin(115200);
36     Serial.println();
37     Serial.print("connecting to ");
38     Serial.print(ssid);
39     WiFi.begin(ssid, password);

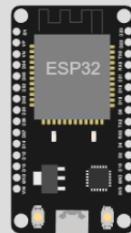
```

Simulation

▶

+

ⓘ



Connecting to Wokwi-GUEST.

Wifi connected, IP address: 0.0.0.0

IBM Watson IoT Platform

910619106301@smartinternz.com

ID: ay8bvr

Browse

Action

Device Types

Interfaces

Add Device

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	
<input checked="" type="checkbox"/>	12345	Disconnected	ESP32_Controller	Device	Nov 9, 2022 9:00 PM		910619106301@smartinternz.com	→ ...

Identity

Device Information

Recent Events

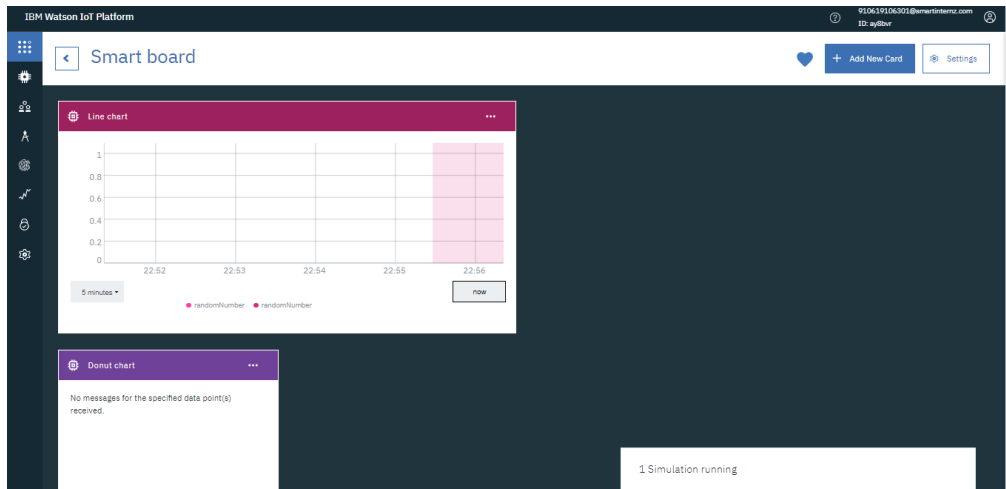
State

Logs

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

Event	Value	Format	Last Received
event_1	{ "randomNumber": 33 }	json	an hour ago
event_1	{ "randomNumber": 36 }	json	an hour ago
event_1	{ "randomNumber": 74 }	json	an hour ago
event_1	{ "randomNumber": 70 }	json	an hour ago
event_1	{ "randomNumber": 3 }	json	an hour ago

1 Simulation running



database

Document ID

Options {} JSON

Create Document

key	value
Bhuvanesh	{ "rev": "1-4bfa6fbae1b8c12a7af4b3ffa409782" }

Showing 2 of 3 columns. ☐ Show all columns.

Showing document 1 - 1. Documents per page: 20

