

PUBLISH DATA IBM CLOUD

DATE	18 October 2022
TEAM ID	PNT2022TMID12856
PROJECT NAME	Real-Time River Water Monitoring and Control System

WOKWI

SAVE SHARE sketch.ino Docs

sketch.ino diagram.json libraries.txt Library Manager

```

1 #include <WiFi.h>//library for wifi
2 #include <PubSubClient.h>//library for MQTT
3 #include "DHT.h"// Library for dht11
4 #define DHTPIN 15 // what pin we're connected to
5 #define DHTTYPE DHT22 // define type of sensor DHT 11
6 #define LED 2
7
8 DHT dht (DHTPIN, DHTTYPE);// creating the instance by passing pin and type of dht
9
10 void callback(char* subscribetopic, byte* payload, unsigned int payloadLength);
11
12 //-----credentials of IBM Accounts-----
13
14 #define ORG "igulfm"/IBm ORGANITION ID
15 #define DEVICE_TYPE "watermonitor"/Device type mentioned in ibm watson IOT Platf
16 #define DEVICE_ID "112233"/Device ID mentioned in ibm watson IOT Platform
17 #define TOKEN "12345678" //Token
18 String data3;
19 float h, t;
20
21 //----- Customise the above values -----
22
23 char server[] = ORG ".messaging.internetofthings.ibmcloud.com";// Server Name
24 char publishTopic[] = "iot-2/evt/Data/fmt/json";// topic name and type of event p
25 char subscribetopic[] = "iot-2/cmd/command/fmt/String";// cmd REPRESENT command
26 char authMethod[] = "use-token-auth";// authentication method
27 char token[] = TOKEN;
28 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;//client id
  
```

Simulation

01:03.755 95%

Humid:40.00
Sending payload: {\"temp\":24.00,\"Humid\":40.00}
Publish ok
temp:24.00
Humid:40.00
Sending payload: {\"temp\":24.00,\"Humid\":40.00}
Publish ok

IBM Watson IoT Platform

charanpu10@gmail.com ID: igulfm

Browse Action Device Types Interfaces

Add Device

Device ID	Status	Device Type	Class ID	Date Added
112233	Connected	watermonitor	Device	19 Nov 2022 17:26

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
Data	{\"temp\":24,\"Humid\":40}	json	a few seconds ago
Data	{\"temp\":24,\"Humid\":40}	json	a few seconds ago
Data	{\"temp\":24,\"Humid\":40}	json	a few seconds ago
Data	{\"temp\":24,\"Humid\":40}	json	a few seconds ago
Data	{\"temp\":24,\"Humid\":40}	json	a few seconds ago