

Project name	Industry specific intelligent fire management system
Assignment	4

Wokwi link: <https://wokwi.com/projects/345395196387656275>

WOKWI

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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
9
10 void callback(char* subscribetopic, byte* payload, unsigned int payloadLength) {
11
12 //-----credentials of IBM Accounts-----
13
14 #define ORG "69qr6p" //IBM ORGANITION ID
15 #define DEVICE_TYPE "abcd" //Device type mentioned in ibm watson IOT Platform
16 #define DEVICE_ID "12345" //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 address
24 char publishTopic[] = "iot-2/evt/Data/fmt/json"; // topic name and type of data
25 char subscribetopic[] = "iot-2/cmd/command/fmt/String"; // cmd REPRESENTATION
26 char authMethod[] = "use-token-auth"; // authentication method
27 char token[] = TOKEN;
28 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID; //client id
29
30

```

Simulation

00:41.882 91%

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

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Browse Action Device Types Interfaces

Add Device +

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	abcd	Device	Nov 15, 2022 9:54 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
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