

SPRINT 3

Date	05 November 2022
Team ID	PNT2022TMID04749
Project Name	Industry-Specific Intelligent Fire Management System

Wokwi project link:

<https://wokwi.com/projects/348777158576964178>

Output:

The screenshot displays the Wokwi online IDE interface. On the left, the code editor shows the following code:

```
1  #include <WiFi.h> // library for wifi
2  #include <PubSubClient.h> // library for MQTT
3  #include "DHT.h" // library for dht11
4  #include <stdlib.h>
5  #include <time.h>
6  #define DHTPIN 15 // what pin we're connected to
7  #define DHTTYPE DHT22 // define type of sensor DHT 11
8
9
10 dht(DHTPIN, DHTTYPE); // creating the instance by passing pin and type of dht
11
12 callback(char* topic, byte* payload, unsigned int payloadLength);
13
14 -----credentials of IBM Accounts-----
15
16 #define ORG "bx33ga"
17 #define DEVICE_TYPE "Sound"
18 #define DEVICE_ID "2002"
19 #define TOKEN "12345678"
20
21 #define data3 ""
22 #define accidentstatus ""
23 #define sprinkstatus ""
24 #define temp 0;
25 #define isfanon false;
26 #define issprinkon false;
27 #define gas 0;
28 #define flame 0;
29 #define flow 0;
```

On the right, the simulation window shows a visual representation of the ESP32 board connected to a DHT22 sensor. Below the simulation, the console output displays the following messages:

```
Connecting to ....
WiFi connected
IP address:
10.10.0.2
Reconnecting client to bx33ga.messaging.internetofthings.ibmcloud.com
iot-2/cmd/command/fmt/String
subscribe to cmd OK

Sending payload:
{"temperature":24.00,"gas_ppm":103,"flame":531,"flow":false,"isfanon":false,"issprinkon":false,"accidentstatus":"","sprinkstatus":"ready"}
Publish ok

Sending payload:
{"temperature":24.00,"gas_ppm":37,"flame":693,"flow":false,"isfanon":true,"issprinkon":false,"accidentstatus":"Need Auditing","sprinkstatus":"ready"}
Publish ok

Sending payload:
{"temperature":24.00,"gas_ppm":322,"flame":855,"flow":false,"isfanon":true,"issprinkon":false,"accidentstatus":"Need Auditing","sprinkstatus":"ready"}
Publish ok

Sendina pavload:
```

IBM Watson IoT Platform

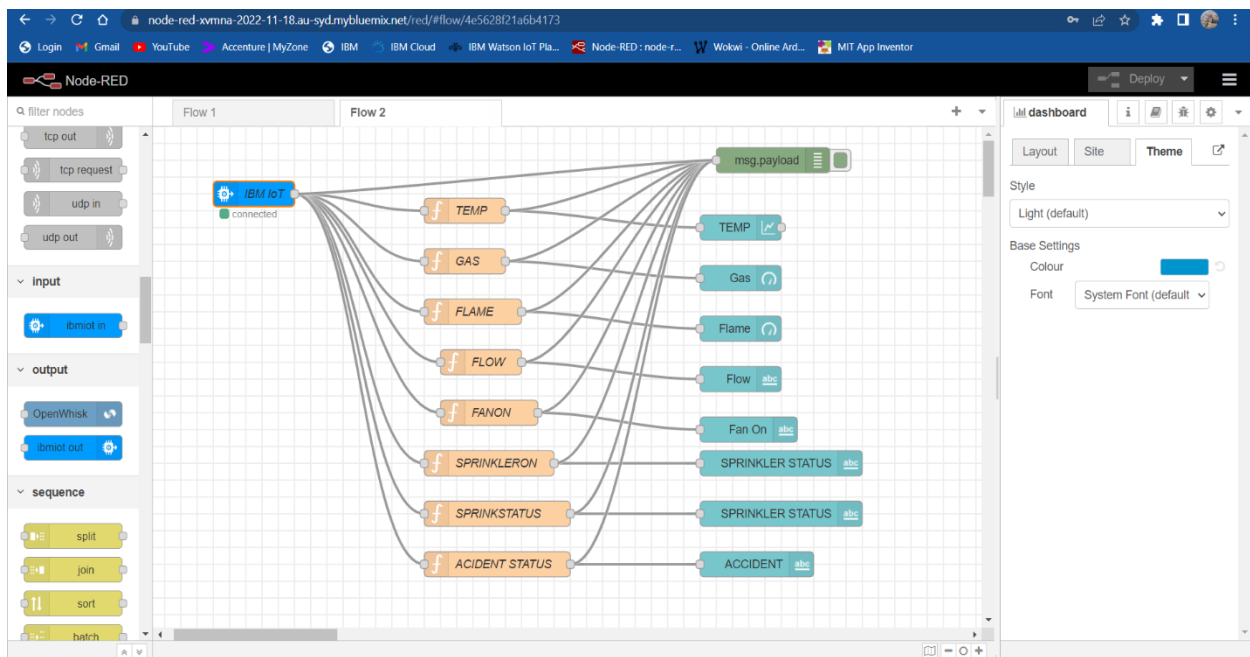
2002 Connected Sound Device Nov 14, 2022 2:27 PM

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.

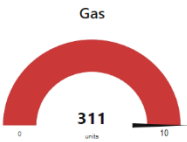
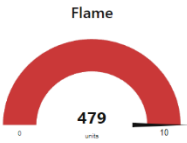
Event	Value	Format	Last Received
data	{"temperature":24,"gas_ppm":311,"flame":479,"...	json	a few seconds ago
data	{"temperature":24,"gas_ppm":26,"flame":317,"fl...	json	a few seconds ago
data	{"temperature":24,"gas_ppm":141,"flame":155,"...	json	a few seconds ago
data	{"temperature":24,"gas_ppm":207,"flame":1017...	json	a few seconds ago
data	{"temperature":24,"gas_ppm":322,"flame":855,"...	json	a few seconds ago

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FACTORY

SENSOR VALUES



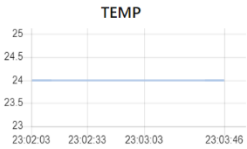
STATUS

SPRINKLER STATUS false

ACCIDENT nil

SPRINKLER STATUS Need auditing

Flow true



CONTROL UNIT

Fan On true