PROJECT DEVELOPMENT PHASE-SPRINT 2
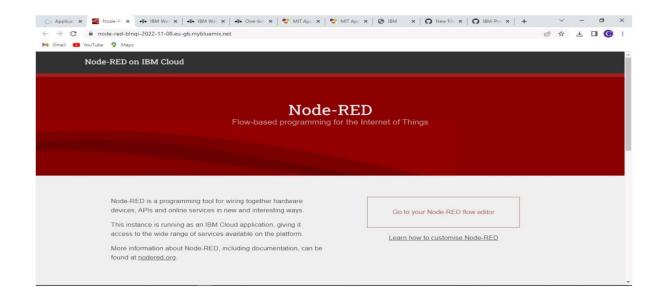
DATE	01 NOV 2022
TEAM ID	PNT2022TMID42331
PROJECT TITLE	INDUSTRY SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

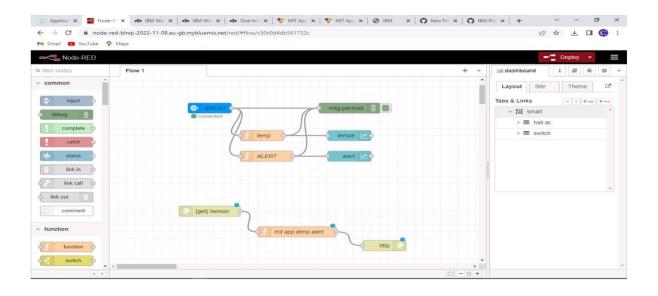## IMAGES OF IBM CLOUD:

IMAGES OF CLOUD NODE-RED SERVICE

WOKWI 💾 SAVE ▼ ➤ SHARE ♥ sketch.ino ✏

sketch.ino   diagram.json   libraries.txt   Library Manager ▼

```
1  #include <WiFi.h>
2  #include <PubSubClient.h>
3  #define temp_pin 15
4  void callback(char* subscribetopic,byte* payload, unsigned int payloadLength);
5  #define ORG "tca72r"
6  #define DEVICE_TYPE "raspberrypi"
7  #define DEVICE_ID "12345"
8  #define TOKEN "12345678"
9  String data3;
10
11 char server[]= ORG ".messaging.internetofthings.ibmcloud.com";
12 char publishTopic[]="iot-2/evt/Data/fmt/json";
13 char subscribeTopic[]="iot-2/cmd/test/fmt/String";
14 char authMethod[]="use-token-auth";
15 char token[]=TOKEN;
16 char clientID[]="d:"ORG":"DEVICE_TYPE":"DEVICE_ID";
17
18 WiFiClient wifiClient;
19 PubSubClient client(server,1883,callback,wifiClient);
20
21
22
23
24 // should match the Beta Coefficient of the thermistor
25
26 void setup() {
27   Serial.begin(9600);
28   analogReadResolution(10);
29   pinMode(32,INPUT);
30   pinMode(14,OUTPUT);
31
32   wificonnect();
33   mqttconnect();
34
35 }
```

Simulation   ⏱ 00:18.0

🔄 ⬛ ⏸

NTC Temperature Sensor (analog)
Temperature: ▬▬▬▬●————— 41.0℃

ESP32

```
publish ok
Temperature: 41.02 ℃
Sending payload:{"ALERT":41.02}
publish ok
Temperature: 41.02 ℃
Sending payload:{"ALERT":41.02}
publish ok
```

{"ALERT":41.02}