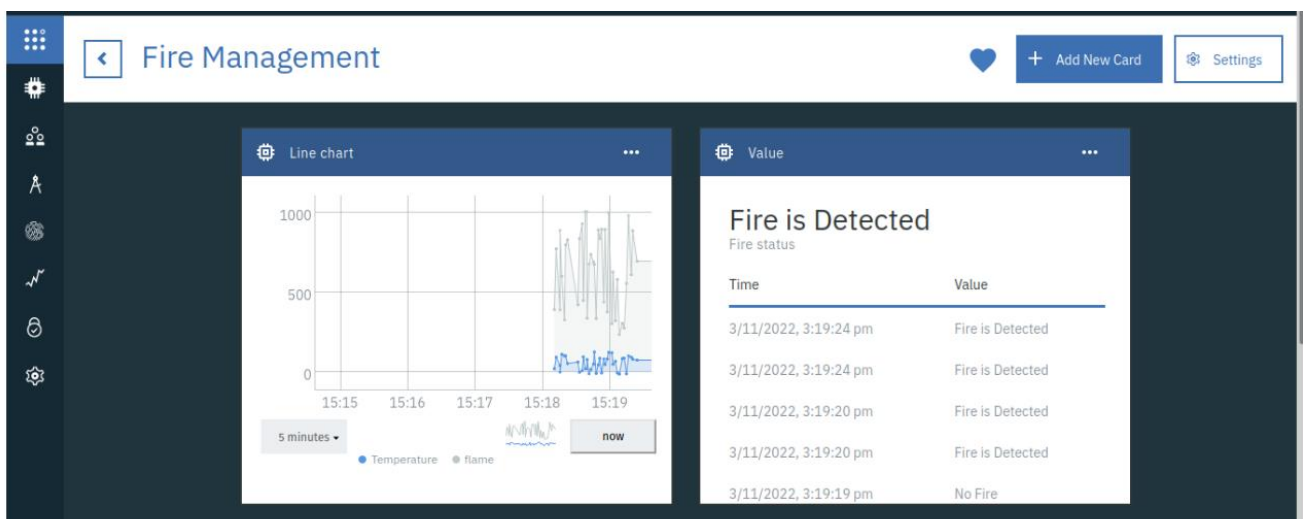
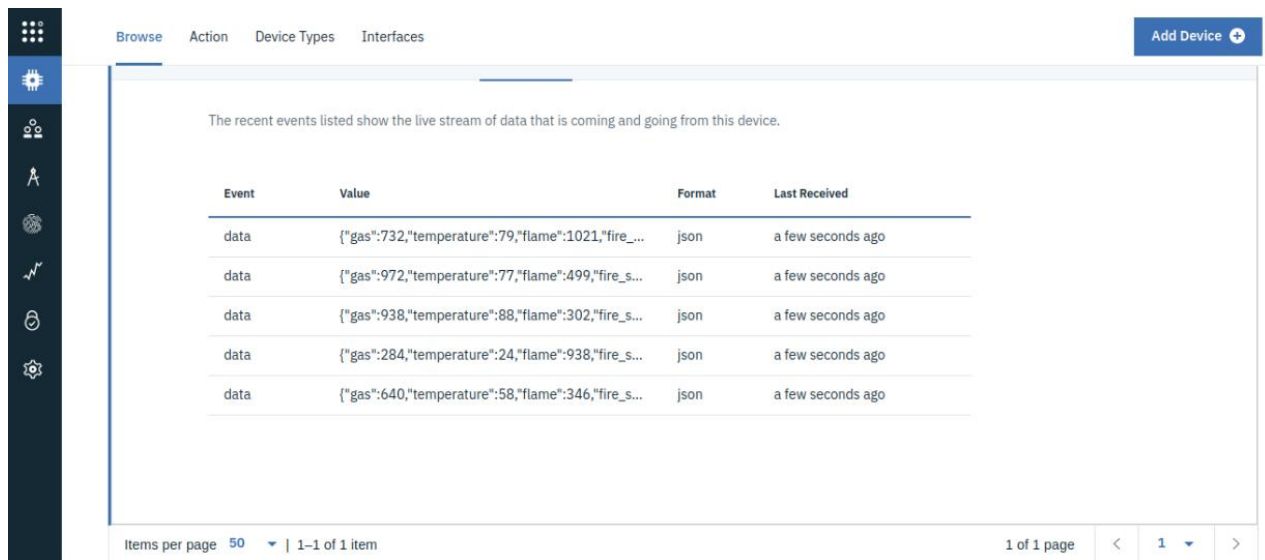
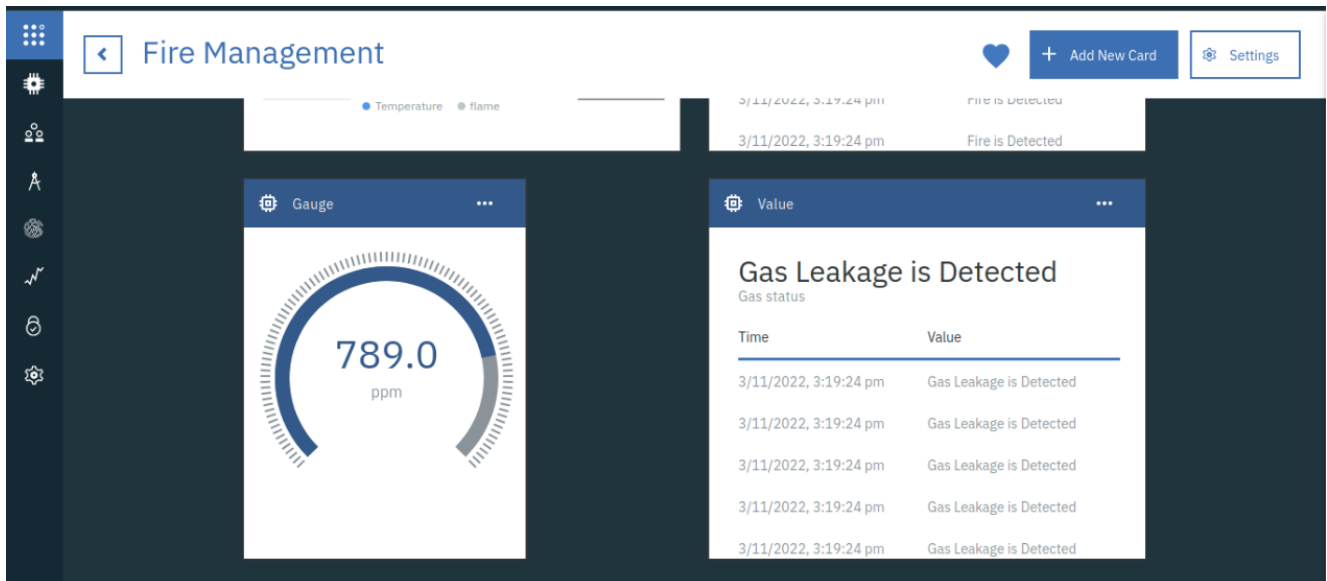


## PROJECT DEVELOPMENT PHASE SPRINT 2

DATE	07 NOV 2022
TEAM ID	PNT2022TMID11775
PROJECT TITLE	INDUSTRY SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

### IMAGES OF IBM CLOUD:





## IMAGES OF CLOUD NODE-RED SERVICE:

The screenshot shows the IBM Cloud console interface. The top navigation bar includes the IBM Cloud logo, a search bar, and user account information. The main content area is titled "Resource list" and displays a table of resources. The table has columns for Name, Group, Location, Product, Status, and Tags. A "Create resource" button is visible in the top right corner.

Name	Group	Location	Product	Status	Tags
Filter by name or IP address... Filter by group or org... Filter... Filter... Filter... Filter...					
Compute (1)					
Node RED BLNQI 2022-11-08	firedetection / ibmproject	London	Node.js	Started	-
Containers (0)					
Networking (0)					
Storage (0)					
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (2+)					
Developer tools (11+)					
Logging and monitoring (0)					
Migration (0)					

# Node-RED

Flow-based programming for the Internet of Things

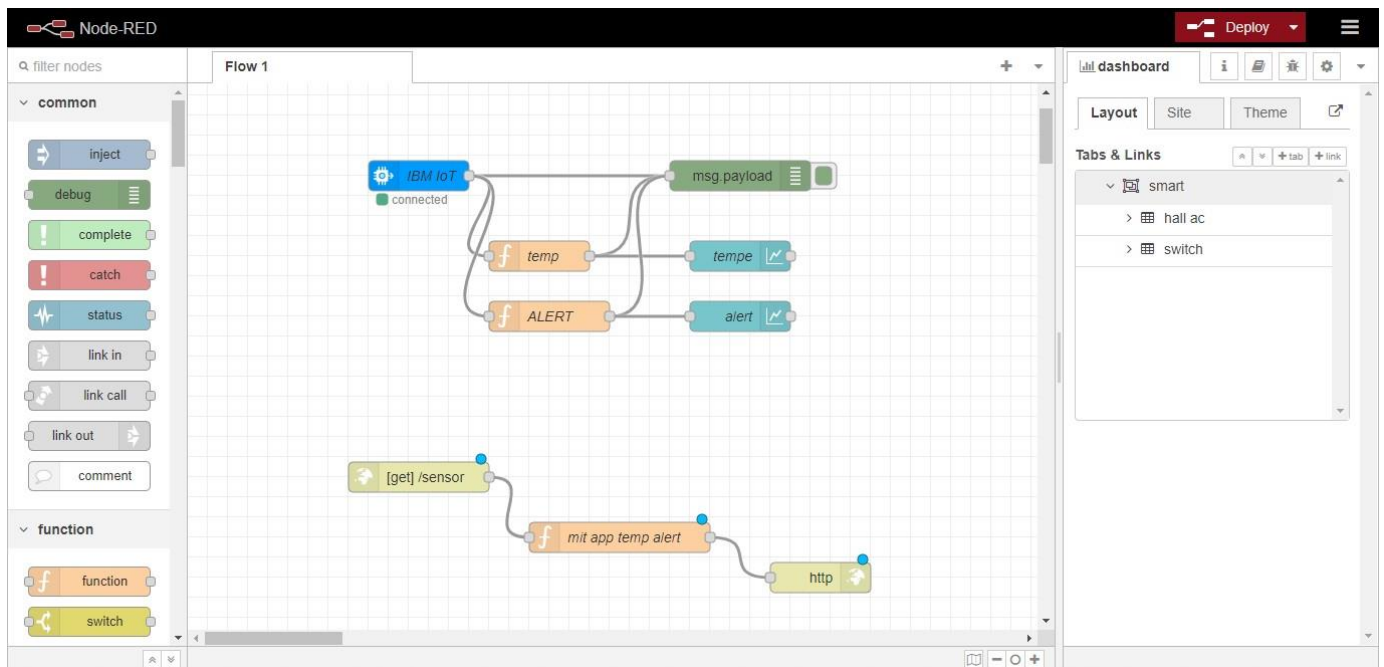
Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.

This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform.

More information about Node-RED, including documentation, can be found at [nodered.org](http://nodered.org).

[Go to your Node-RED flow editor](#)

[Learn how to customise Node-RED](#)



IBM Cloud

Search resources and products...

Catalog Manage hari priya's Account

Resource list /

## Node RED BLNQI 2022-11-08

Running Visit App URL Add tags

Details Actions...

Getting started

**Overview**

Runtime

Connections

Logs

API Management

Autoscaling

IBM Cloud Foundry Public is being deprecated. Please see [full details](#).

### Instances

Health

100%

1/1 instance(s) are running

Instances: 1

MB memory per Instance: 2048 256

### Runtime

Node.js

256

Total MB allocation

1.75 GB still available

Free Used

### Runtime cost

Current and estimated cost excludes connected services.

### Connections

WOKWI

SAVE SHARE

Industry specific intelligent fire management system

Docs

esp32-dht22.ino diagram.json libraries.txt Library Manager

### Simulation

```
14 dht.setup(DHTPIN, DHTesp::DHT22);
15 }
16 void loop() {
17
18   TempAndHumidity data = dht.getTempAndHumidity();
19
20   float temp = 24.8;
21
22   float hum = 36.4;
23
24   if (temp > 50){
25     Serial.println("FIRE");
26     digitalWrite(pinLED, HIGH);
27     delay(1000);
28
29     digitalWrite(pinLED, LOW);
30     delay(500);
31   }
32   else{
33     digitalWrite(pinLED, LOW);
34     Serial.println("SAFE");
35   }
36   Serial.println("Temperature: " + String(temp, 2) + "°C");
37   Serial.println("Moisture: " + String(hum, 1) + "%");
38   Serial.println("NORMAL");
39   Serial.println("Sprinkler Status : Not Working");
40   Serial.println("----");
41
42   delay(500);
43 }
```

SAFE

Temperature: 24.80°C

Moisture: 36.4%

NORMAL

Sprinkler Status : Not Working

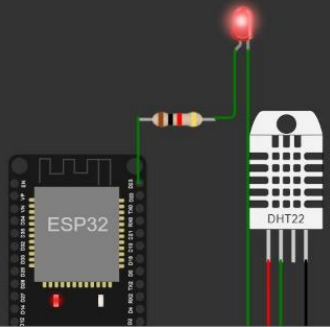
WOKWI SAVE SHARE Industry specific intelligent fire management system Docs

esp32-dht22.ino diagram.json libraries.txt Library Manager

```
1 // prores include library
2 #include "DHTesp.h"
3
4 #define DHTPIN 15
5 const int pinLED = 23;
6
7 DHTesp dht;
8 void setup() {
9
10   pinMode(pinLED, OUTPUT);
11   Serial.begin(115200);
12   Serial.println("EDSPERT - Acqisition sensor DHT22 via ESP32");
13
14   dht.setup(DHTPIN, DHTesp::DHT22);
15 }
16 void loop() {
17
18   TempAndHumidity data = dht.getTempAndHumidity();
19
20   float temp = 67.01;
21
22   float hum = 21.06;
23
24   if (temp > 50){
25     Serial.println("FIRE");
26     digitalWrite(pinLED, HIGH);
27     delay(1000);
28
29     digitalWrite(pinLED, LOW);
30     delay(500);
31   }
32   else{
33     digitalWrite(pinLED, LOW);
34     Serial.println("SAFE");
35   }
```

Simulation

00:04.500 98%



FIRE  
Temperature: 67.01°C  
Moisture: 21.1%  
ALERT  
Sprinkler Status : Working  
---  
FIRE

node-red-blncqi-2022-11-08.eu-gb.mybluemix.net/sensor

Gmail YouTube Maps

{"ALERT":41.02}