

Project Development Phase

Delivery of Sprint 2

Date	3 November 2022
Team ID	PNT2022TMID14470
Project Name	Project –Gas leakage monitoring and alerting system for industries

Task:

Sensed data is brought to Node-RED and displayed in the dashboard

Steps:

1. IBM IoT node is used to gather sensor data.
 - a. Necessary API key is provided to establish a connection.
2. Using functions namely Temperature, Humidity, and Gas the data is obtained independently and displayed in the dashboard.
3. Dashboard Nodes are used to display the sensed data to the user in a portal.

Source code:

```
Temperature: msg.payload = msg.payload.Temp;  
return msg;  
Humidity: msg.payload = msg.payload.Hum;
```

```
return msg;
```

```
Concentration of Gas: msg.payload = msg.payload.gas;
```

```
return msg;
```

OUTPUT :

The screenshot displays the Node-RED web interface in a browser. The address bar shows the URL: `node-red-iuqti-2022-11-09.eu-gb.mybluemix.net/red/#flow/8a0bf0e22bdcaeda`. The interface includes a left sidebar with node categories (common, function), a central workspace for 'Flow 1', and a right sidebar with an 'info' panel.

Flow 1 Diagram:

- Top Section:** An **IBM IoT** node (connected) feeds into a **msg.payload** node. This node then branches into three function nodes: **temp**, **Humid**, and **gas**. Each function node is connected to a corresponding output node: **Temp**, **Humid**, and **gas**.
- Bottom Section:** Three input nodes, **Alarm on**, **Alarm off**, and **Sprinkler**, are connected to another **msg.payload** node, which then feeds into an **IBM IoT** node (connected).

The right sidebar's 'info' panel shows the flow ID `"8a0bf0e22bdcaeda"` and a tip: "Hold down **ctrl** when you **click** on a node to add or remove it from the current selection".

ApplicationsPlacesSystem

Node-RED Dashboard - Brave

Download file | iL...Delivery of SprintIBM-EPBL/IBM-PApplication DetailNode-RED : nodeNode-RED Da xNode-RED DashNew Tab

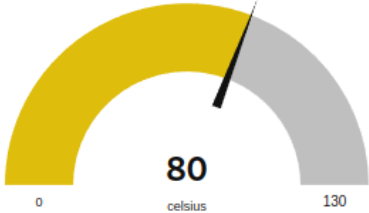
node-red-iuqti-2022-11-09.eu-gb.mybluemix.net/ui/#/0?socketid=SnSETsO6Dpt6XTGRAABX

Imported From...LearnPentestPrivacyCommunityCryptPadDocumentationDonations and...Getting StartedHack the BoxParrot OS»

Gas Leakage

Temperature

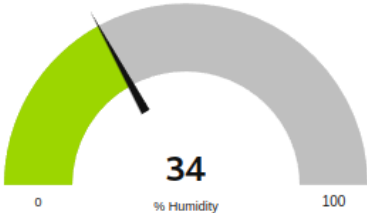
Temperature



080130
celsius

Humidity Level

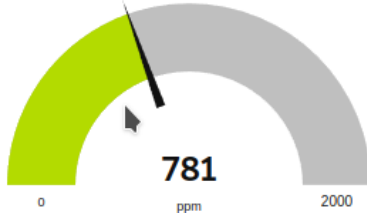
Humidity



034100
% Humidity

Gas Level

Gas level



07812000
ppm

switch board

ALARM ON

ALARM OFF

In Case Of Fire

Sprinkler

☐

Menu

Node-RED Dashboard - ...

[WhatsApp — Mozilla ...

[Delivery of Sprint 1.doc...

Downloads

123