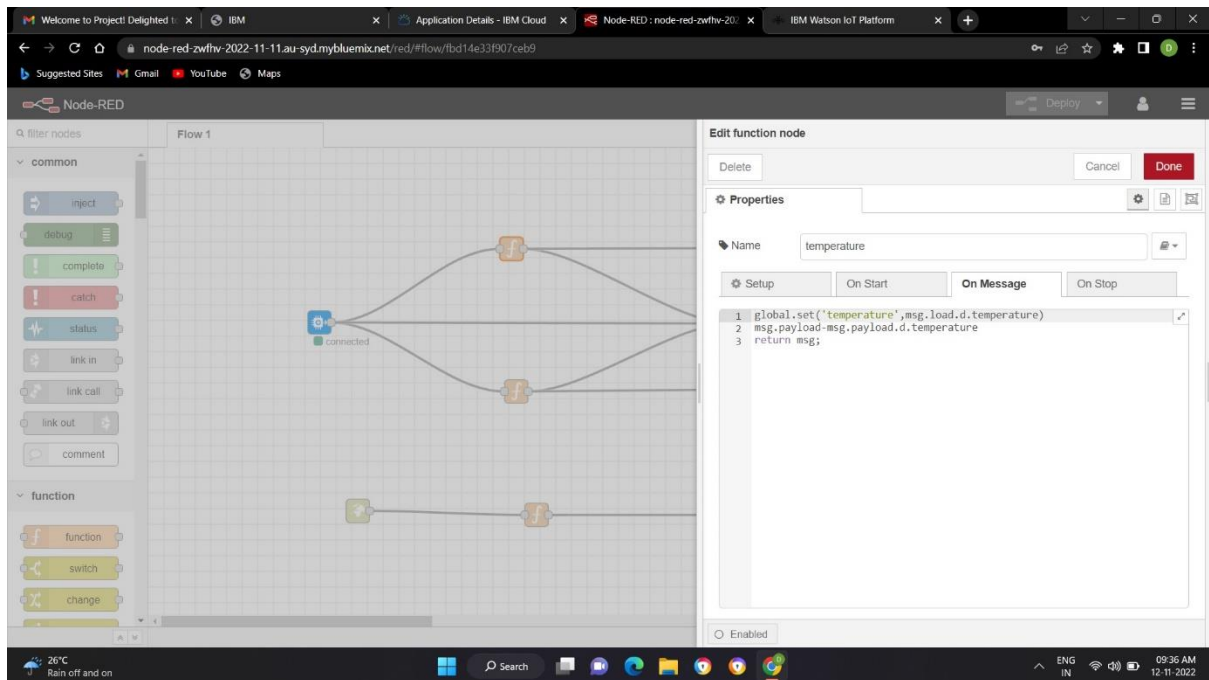
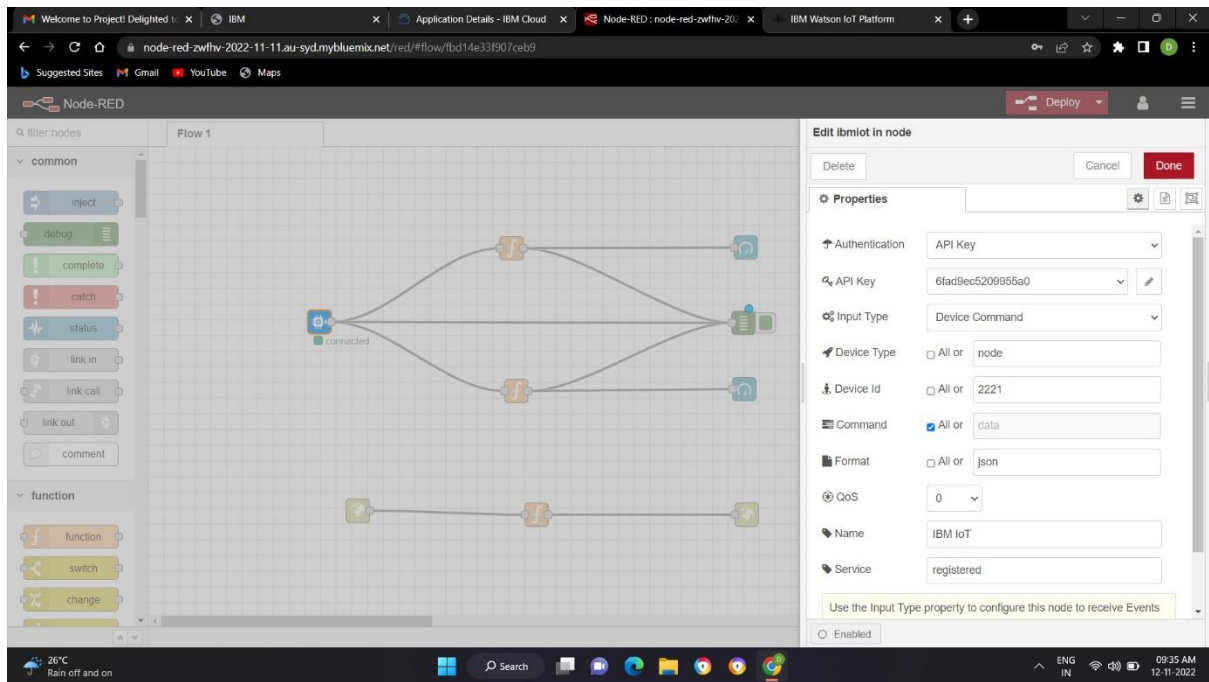


Develop the web application using Node-red

Date	11 November 2022
Team ID	PNT2022TMID54092
Project Name	Gas leakage monitoring and alerting system for industries



Node-RED interface showing a flow with a 'connected' node and two function nodes. The right panel displays the 'Edit function node' configuration for a function named 'humidity'.

Edit function node

Properties

Name: humidity

Setup On Start On Message On Stop

```
1 global.set('humidity',msg.load.d.humidity)
2 msg.payload=msg.payload.d.humidity
3 return msg;
```

Enabled

Node-RED interface showing a flow with a 'connected' node and two function nodes. The right panel displays the 'Edit gauge node' configuration for a gauge named 'temperature'.

Edit gauge node

Properties

Group: [Home] Default

Size: auto

Type: Gauge

Label: temperature

Value format: {{value}}

Units: units

Range: min 0 max 10

Colour gradient: [Green, Yellow, Red]

Sectors: 0 ... optional ... optional ... 10

Class: Optional CSS class name(s) for widget

Name:

Enabled

Node-RED interface showing a flow diagram and the configuration for a gauge node.

Flow Diagram: A flow starting with a 'connected' node, branching into two parallel paths, each containing a function node, and then merging into a single output node.

Edit gauge node Properties:

- Group: [Home] Default
- Size: auto
- Type: Gauge
- Label: humidity
- Value format: {{value}}
- Units: units
- Range: min 0, max 10
- Colour gradient: [Green, Yellow, Red]
- Sectors: 0, optional, optional, 10
- Class: Optional CSS class name(s) for widget
- Name:
- Enabled: ☐

Node-RED interface showing the same flow diagram and the configuration for an http in node.

Flow Diagram: A flow starting with a 'connected' node, branching into two parallel paths, each containing a function node, and then merging into a single output node.

Edit http in node Properties:

- Method: GET
- URL: /dta
- Name: Name
- Enabled: ☐

Node-RED interface showing a flow diagram and the 'Edit function node' panel.

Flow Diagram: A flow starts with a 'connected' node, which branches into two parallel paths. Each path contains a function node, followed by a 'status' node, and then a 'complete' node. The flow ends with a 'comment' node.

Edit function node panel:

- Name: Name
- Setup: On Start, On Message, On Stop
- Code:

```
1 msg.payload={'temperature':global.get("temperature"),'humidity':global.get("humidity")}
2 return msg;
```

Node-RED interface showing the flow diagram after deployment.

Flow Diagram: The flow diagram is identical to the one in the first image, but the 'connected' node is now a green 'connected' node, and the 'status' and 'complete' nodes are now blue 'status' and 'complete' nodes. The flow ends with a 'comment' node.

Deployment Status: A green banner at the top of the interface indicates "Successfully deployed".