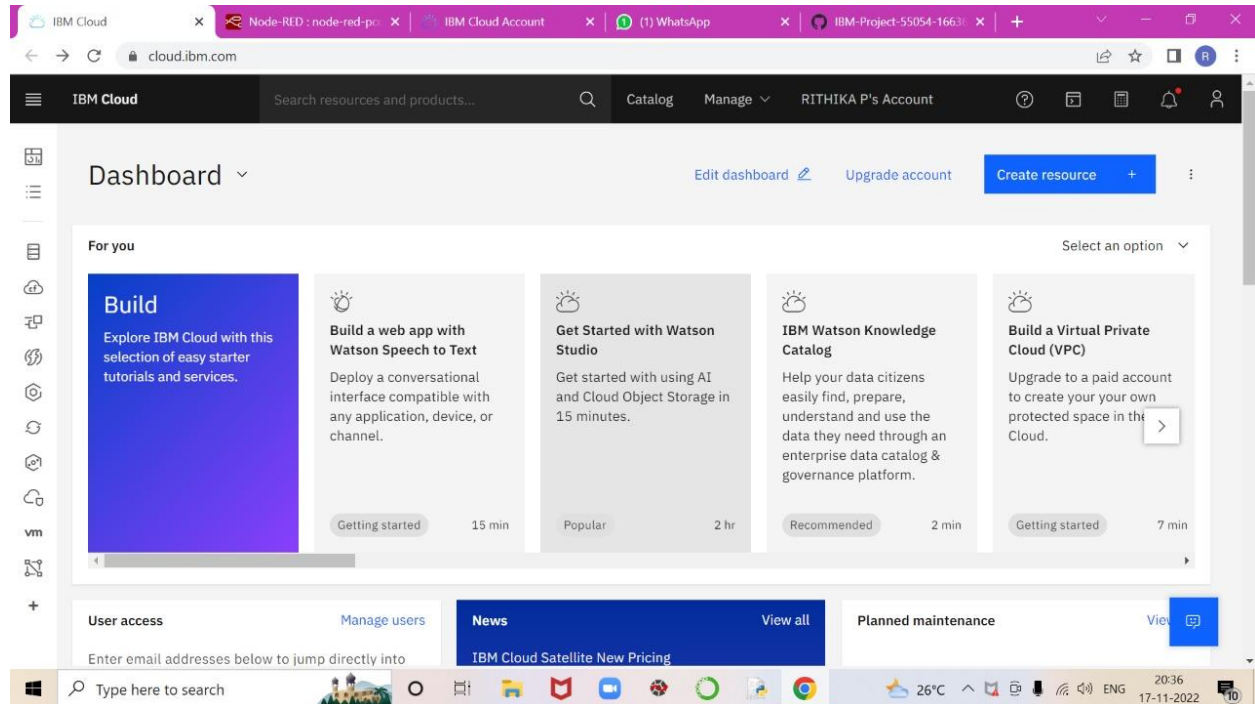
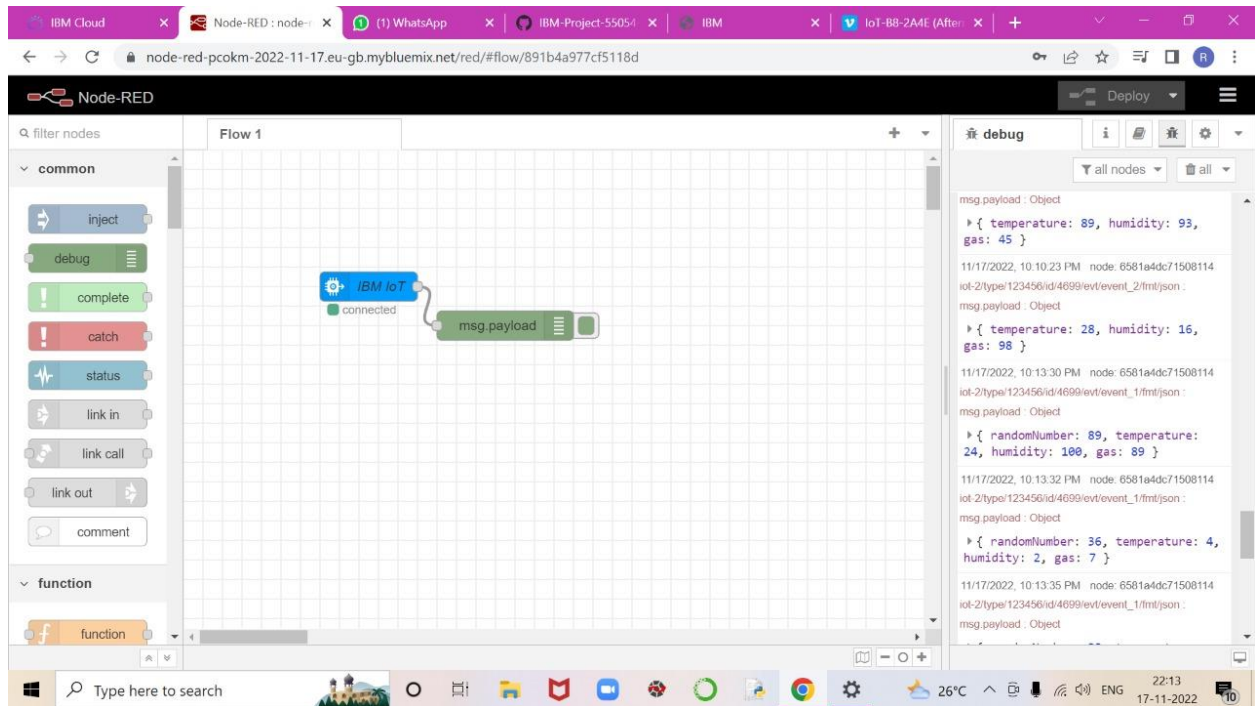
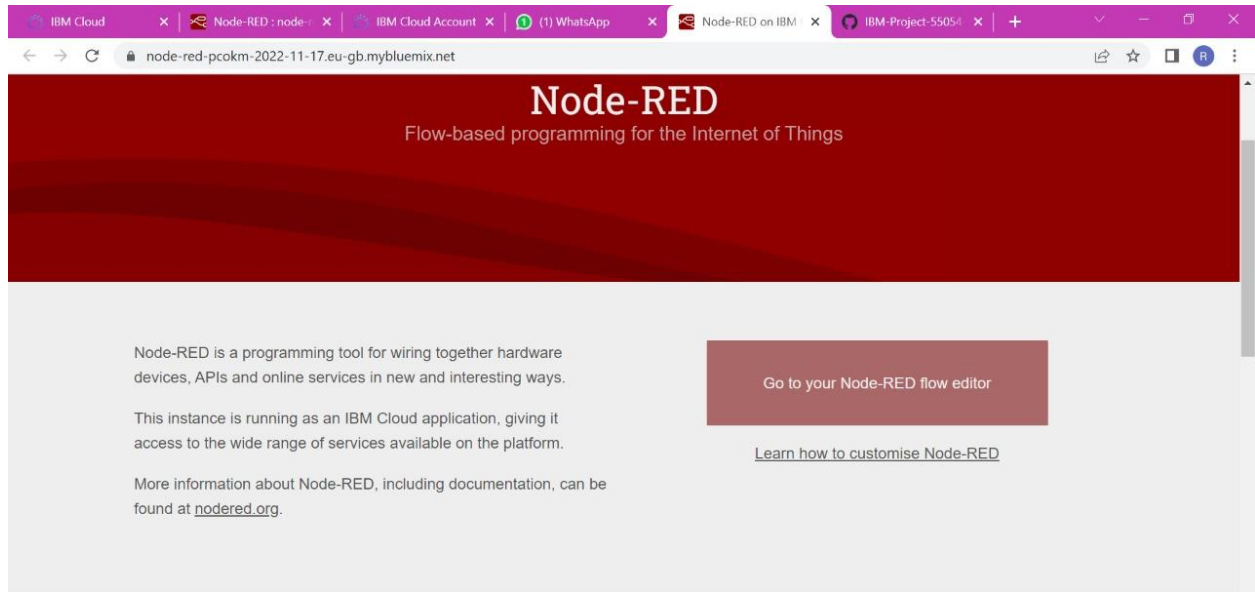


SPRINT -02

Date	19 November 2022
Team ID	PNT2022TMID4963
Project Name	Project - Gas Leakage monitoring & Alerting system for Industries

We have created Node RED and worked with it





Node-RED interface showing a flow named "Flow 1". The flow starts with an "IBM IoT" node (connected) and branches into four function nodes: "temperature", "humidity", "gas", and "randomNumber". These function nodes all connect to a "msg.payload" node. The debug console on the right shows the following log entries:

```
11/17/2022, 10:24:57 PM node: 6581a4dc71508114
iot-2/type/123456/id/4699/evt/event_1/fmt/json :
msg.payload : Object
> { randomNumber: 38, temperature:
22, humidity: 99, gas: 42 }

11/17/2022, 10:24:57 PM node: 6581a4dc71508114
iot-2/type/123456/id/4699/evt/event_1/fmt/json :
msg.payload : number
22

11/17/2022, 10:24:57 PM node: 6581a4dc71508114
iot-2/type/123456/id/4699/evt/event_1/fmt/json :
msg.payload : number
99

11/17/2022, 10:24:57 PM node: 6581a4dc71508114
iot-2/type/123456/id/4699/evt/event_1/fmt/json :
msg.payload : number
42

11/17/2022, 10:24:57 PM node: 6581a4dc71508114
iot-2/type/123456/id/4699/evt/event_1/fmt/json :
msg.payload : number
38
```

Node-RED interface showing the same flow named "Flow 1" after deployment. The flow is now connected to a "msg.payload" node, which branches into four output nodes: "temperature", "humidity", "gas", and "Moisture". The debug console on the right shows the following log entries:

```
11/17/2022, 10:31:24 PM node: 6581a4dc71508114
iot-2/type/123456/id/4699/evt/event_1/fmt/json :
msg.payload : Object
> { randomNumber: 82, temperature:
12, humidity: 68, gas: 97 }

11/17/2022, 10:31:24 PM node: 6581a4dc71508114
iot-2/type/123456/id/4699/evt/event_1/fmt/json :
msg.payload : number
12

11/17/2022, 10:31:24 PM node: 6581a4dc71508114
iot-2/type/123456/id/4699/evt/event_1/fmt/json :
msg.payload : number
68

11/17/2022, 10:31:24 PM node: 6581a4dc71508114
iot-2/type/123456/id/4699/evt/event_1/fmt/json :
msg.payload : number
97

11/17/2022, 10:31:24 PM node: 6581a4dc71508114
iot-2/type/123456/id/4699/evt/event_1/fmt/json :
msg.payload : number
82
```

Node-RED interface showing a flow diagram. The flow starts with a 'msg.payload' node, which connects to 'temperature' and 'humidity' nodes. These nodes then connect to 'gas' nodes. The 'gas' nodes connect to a 'mit' node, which connects to an 'http' node. The 'http' node connects to a '[get] /sensor' node. The 'temperature' and 'humidity' nodes also connect to a 'msg.payload' node. The 'gas' nodes also connect to a 'msg.payload' node. The 'mit' node connects to a 'msg.payload' node. The 'http' node connects to a 'msg.payload' node. The '[get] /sensor' node connects to a 'msg.payload' node.

Properties panel for the 'http' node:

- Method: GET
- URL: /sensor
- Name: Name

System tray shows: 28°C, 18-11-2022, 18:19.

Node-RED interface showing the 'Edit http in node' dialog box. The dialog box has the following properties:

- Method: GET
- URL: /sensor
- Name: Name

The dialog box also has a 'Delete' button, a 'Cancel' button, and a 'Done' button. The 'Enabled' checkbox is checked.

System tray shows: 28°C, 18-11-2022, 16:54.

Node-RED interface showing the "Edit function node" configuration. The node is named "temperature" and is configured to execute JavaScript code on the "On Message" event. The code is:

```
1 msg.payload=msg.payload.temperature
2 global.set("t",msg.payload)
3 return msg;
```

The right sidebar shows the "dashboard" settings, including "Layout", "Site", and "Theme". The bottom status bar displays the current temperature as 28°C and the time as 16:54 on 18-11-2022.

Home dashboard view showing two charts and a gauge. The top chart is a line graph labeled "gas" with a y-axis from 0 to 40 and an x-axis from 22:50:27 to 22:52:18. The bottom chart is a line graph labeled "temperature" with a y-axis from 0 to 100 and an x-axis from 22:50:27 to 22:52:18. The gauge in the center is labeled "gas" and shows a value of 35 units, with a range from 0 to 10.


Node-RED x Node-RED x Node-RED x MIT App In x Service De x IBM Watson x (1) WhatsA x https://node x

node-red-pcokm-2022-11-17.eu-gb.mybluemix.net/ui/#/1?socketid=EM3bP9Oc7TtG-esZAABL

industry

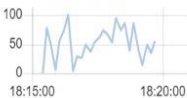
smart industry

temperature




Time	Temperature (units)
18:14:00	50
18:15:00	70
18:16:00	40
18:17:00	60
18:18:00	80
18:19:00	50
18:20:00	30

humidity



Time	Humidity (units)
18:15:00	50
18:16:00	70
18:17:00	40
18:18:00	60
18:19:00	80
18:20:00	50

gas

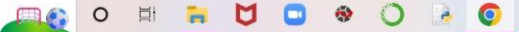


Time	Gas (units)
18:14:00	50
18:15:00	50
18:16:00	50
18:17:00	50
18:18:00	50
18:19:00	50
18:20:00	50

WhatsApp Image...jpeg

Show all

Type here to search



28°C

18-11-2022

18:19