Project Development Phase
Delivery of Sprint 4

Date	3 November 2022
Team ID	PNT2022TMID21389
Project Name	Gas leakage monitoring and alerting system for industries

Objective:

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;

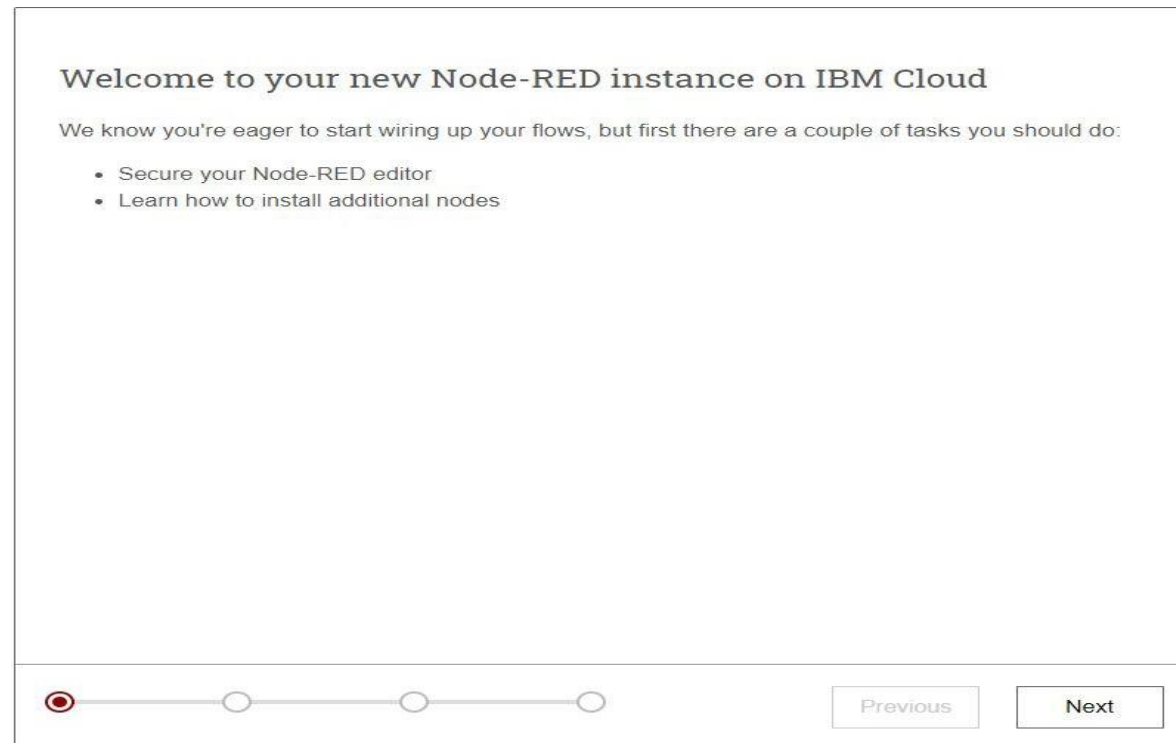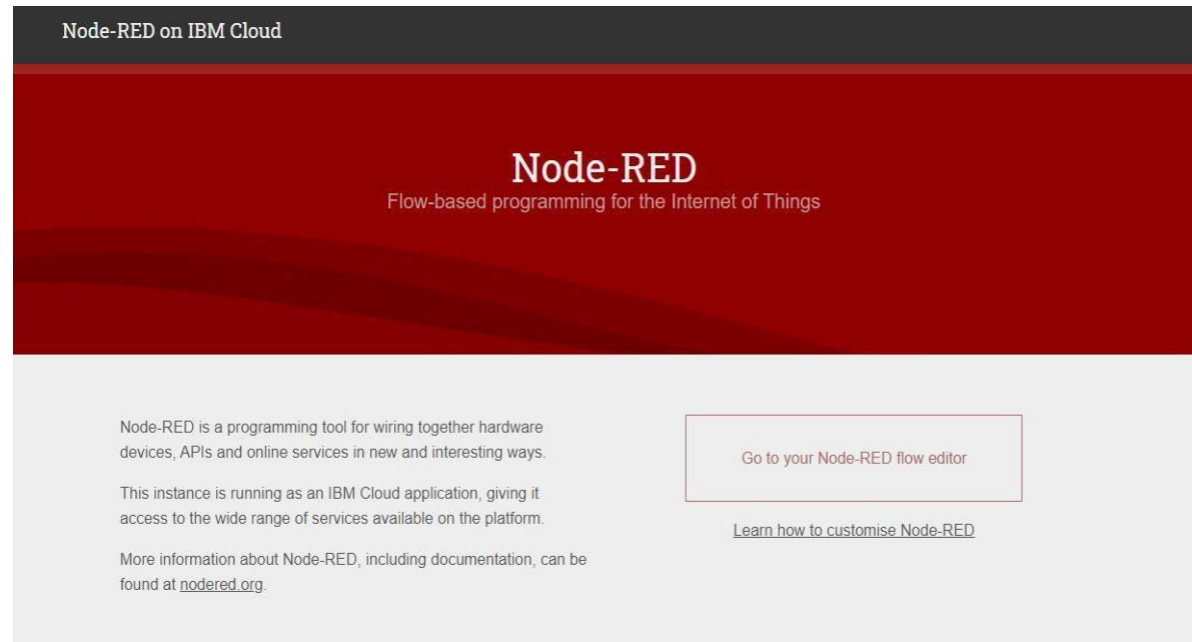Concentration of Gas: msg.payload = msg.payload.gas;
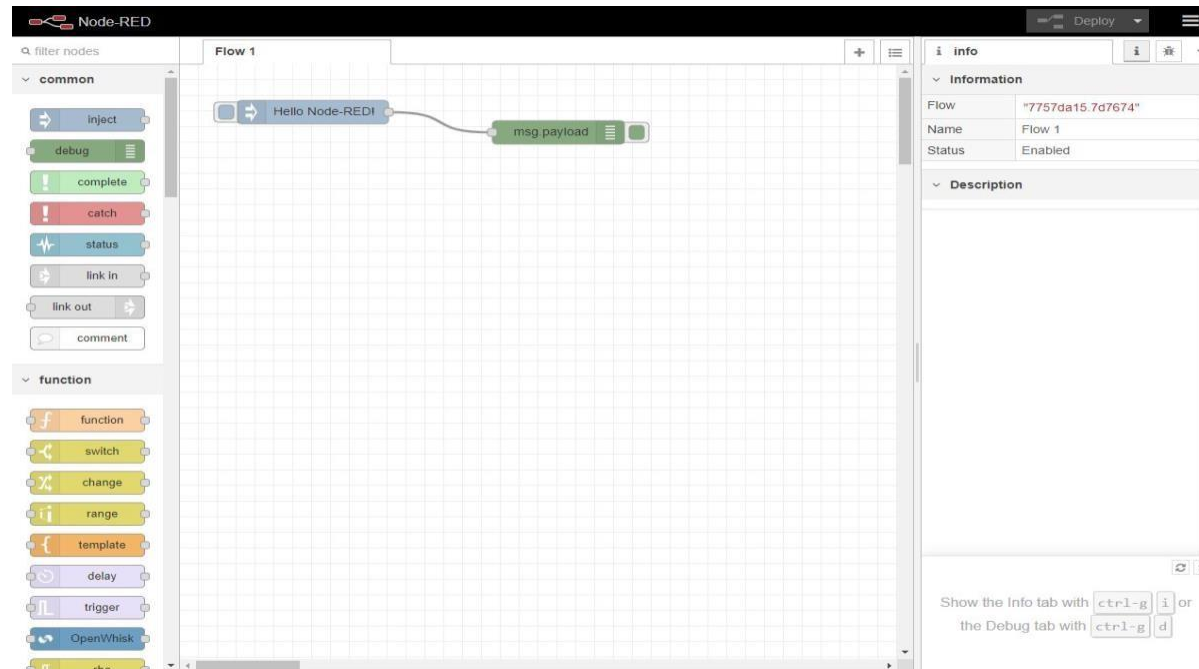
return msg;

Implementation:

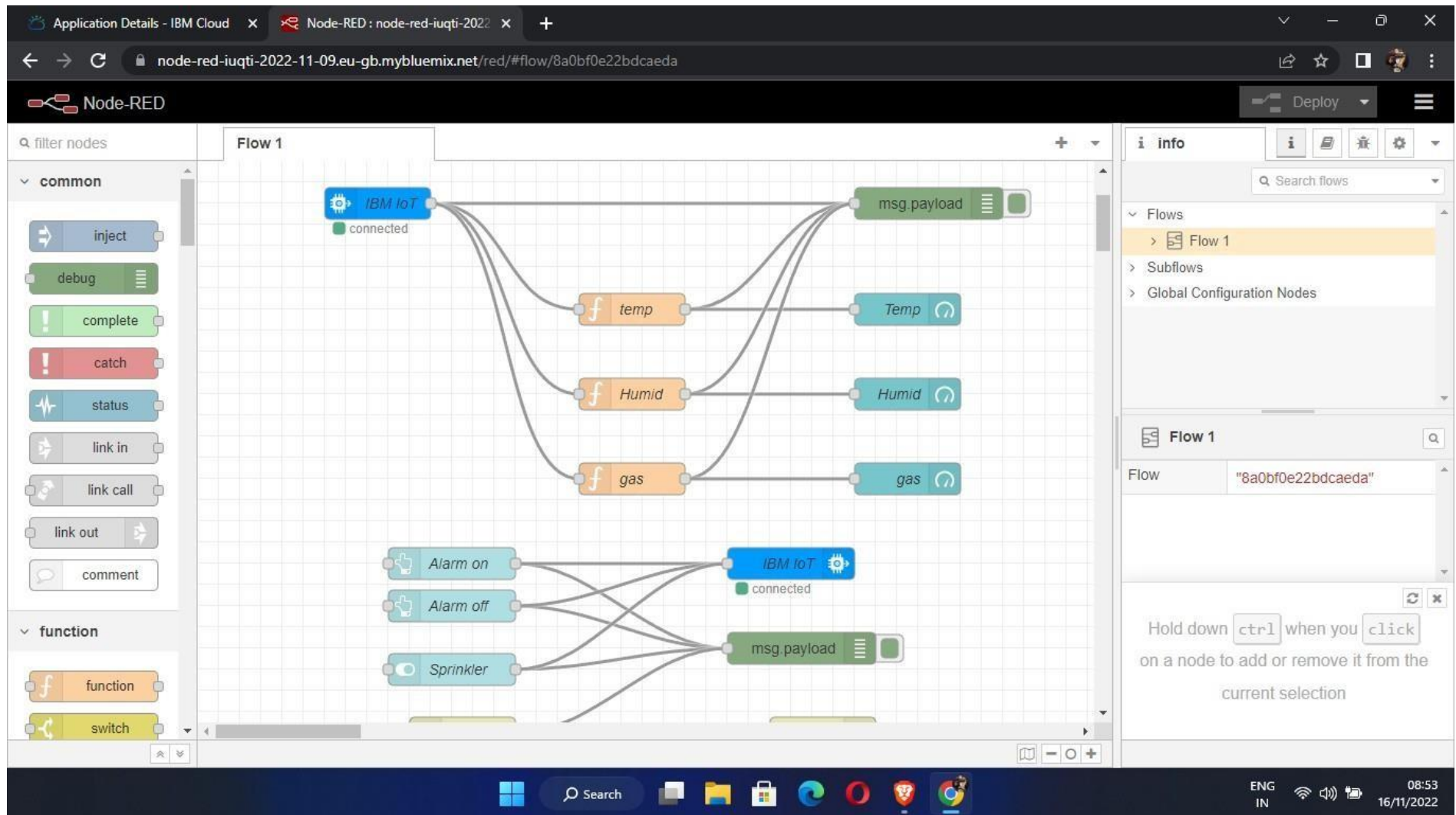1)Launch the node red app from dashboard and click next->finish

2)Click the" go to editor" button to launch the app

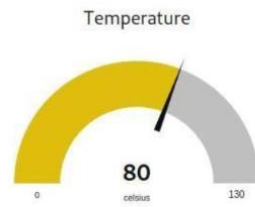3)Take the nodes from palette and place in the editor pane. Give the input in the input node.

Gas Leakage

Temperature

Temperature

80

0   celsius   130

Humidity Level

Humidity

34

0   % Humidity   100

Gas Level

Gas level

781

0   ppm   2000

switch board

ALARM ON

ALARM OFF

In Case Of Fire

Sprinkler