

Create a NODE RED service

Date	18 November 2022
Team ID	PNT2022TMID31382
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;

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 Node-RED

About

Create

App details

App name

Node RED SYLWN 2022-11-18

Accept the default name, or enter a value between 2 and 128 characters.

Resource group

Default

Tags ⓘ

Examples: env:dev, version-1

Platform

☒ Node.js

Service details

Windows taskbar with search bar, task icons, and system tray showing 54% battery and 26°C temperature.

OUTPUT :

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Node-RED Deploy

filter nodes Flow 1

websocket out

tcp in

tcp out

tcp request

udp in

udp out

input

ibmiot in

output

OpenWhisk

ibmiot out

sequence

Flow 1

IBM IoT connected

msg.payload

gas

Gas

Light on

Light off

IBM IoT connected

dashboard

Layout Site Theme

Tabs & Links

Smart Home

Hall AC

switch

Type here to search

21:16 18-11-2022

Smart Home

Hall AC

LIGHT OFF

switch

LIGHT ON

Gas

