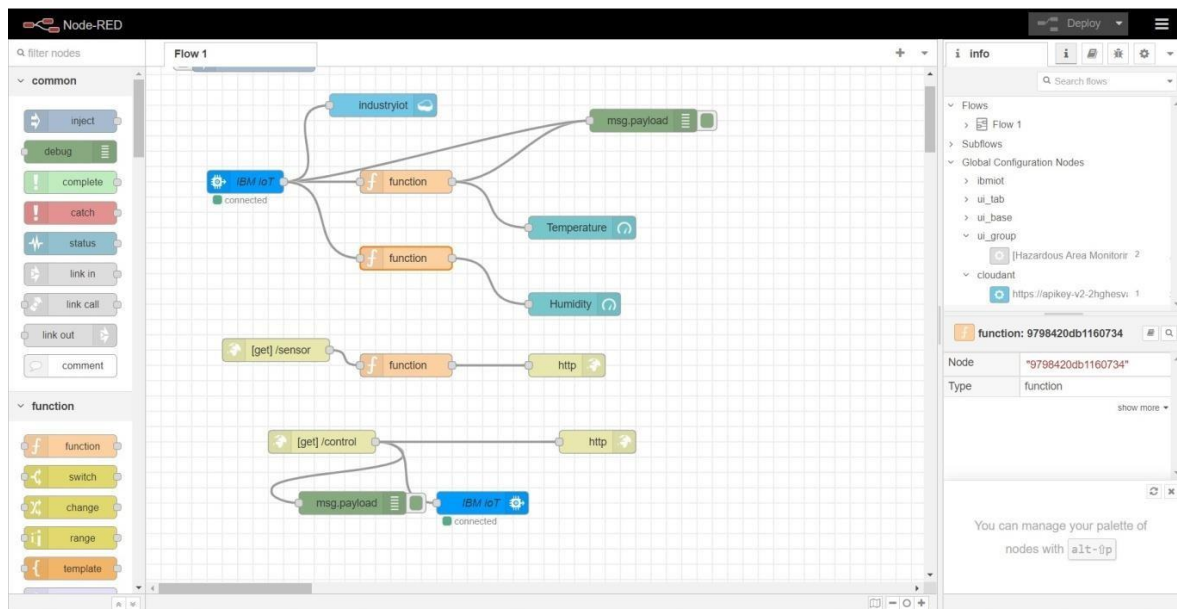


Develop The Web Application Using Node-RED

Team ID	PNT2022TMID42437
Project Name	Hazardous Area Monitoring for Industrial Plant Powered by IoT

Node red flow



Function blocks

The screenshot shows the Node-RED web interface. On the left, the 'common' and 'function' node palettes are visible. The main workspace contains a flow with an 'ibmiot' node connected to an 'industryiot' node, and a '[get]/sensor' node connected to a 'msg.payload' node. The 'Edit function node' dialog is open, showing the 'On Message' tab. The function code is:

```
1 msg.payload = msg.payload.temp;
2 global.set('t',msg.payload)
3 return msg;
```

The right sidebar shows the 'info' tab with a search bar and a list of flows and nodes. The selected node is 'function: 815cba7c7af38e65'.

The screenshot shows the Node-RED web interface with the same flow as the previous image. The 'Edit function node' dialog is open, showing the 'On Message' tab. The function code is updated to:

```
1 msg.payload = msg.payload.humid;
2 global.set('h',msg.payload)
3 return msg;
```

The right sidebar shows the 'info' tab with a search bar and a list of flows and nodes. The selected node is 'function: 9798420db1160734'. At the bottom of the sidebar, there is a note: 'Show the Info tab with ctrl-g i or the Debug tab with ctrl-g d'.

Node-RED

filter nodes

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch
- change
- range
- template

Flow 1

industryiot

ibm iot

function

function

[get] /sensor

function

[get] /control

msg.payload

ibm iot

connected

connected

Edit ibmiot in node

Delete Cancel Done

Properties

Authentication API Key

API Key Industryiot

Input Type Device Event

Device Type ☐ All or NodeMCU

Device Id ☐ All or IoT001

Event ☒ All or +

Format ☐ All or json

QoS 0

Name IBM IoT

Service registered

Use the Input Type property to configure this node to receive Events sent by IoT Devices, Commands sent to IoT Devices, Status Messages referring to IoT Devices, or Status Messages referring to IoT Applications. Check the info tab, to get more information about each of the fields

Enabled

Node-RED

filter nodes

common

- inject
- debug
- complete
- catch
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- link in
- link call
- link out
- comment

function

- function
- switch
- change
- range
- template

Flow 1

industryiot

ibm iot

function

function

[get] /sensor

function

[get] /control

msg.payload

ibm iot

connected

connected

Edit function node

Delete Cancel Done

Properties

Name Name

Setup On Start On Message On Stop

```
1 msg.payload = msg.payload.humid;
2 global.set('h',msg.payload)
3 return msg;
```

Enabled

info

Search flows

Flows

- Flow 1

Subflows

Global Configuration Nodes

- ibmiot
- ui_tab
- ui_base
- ui_group
- Hazardous Area Monitor 2

cloudant

- https://apikey-v2-2hghesv-1

function: 9798420db1160734

Node "9798420db1160734"

Type function

Show the Info tab with **ctrl-g i** or the Debug tab with **ctrl-g d**

