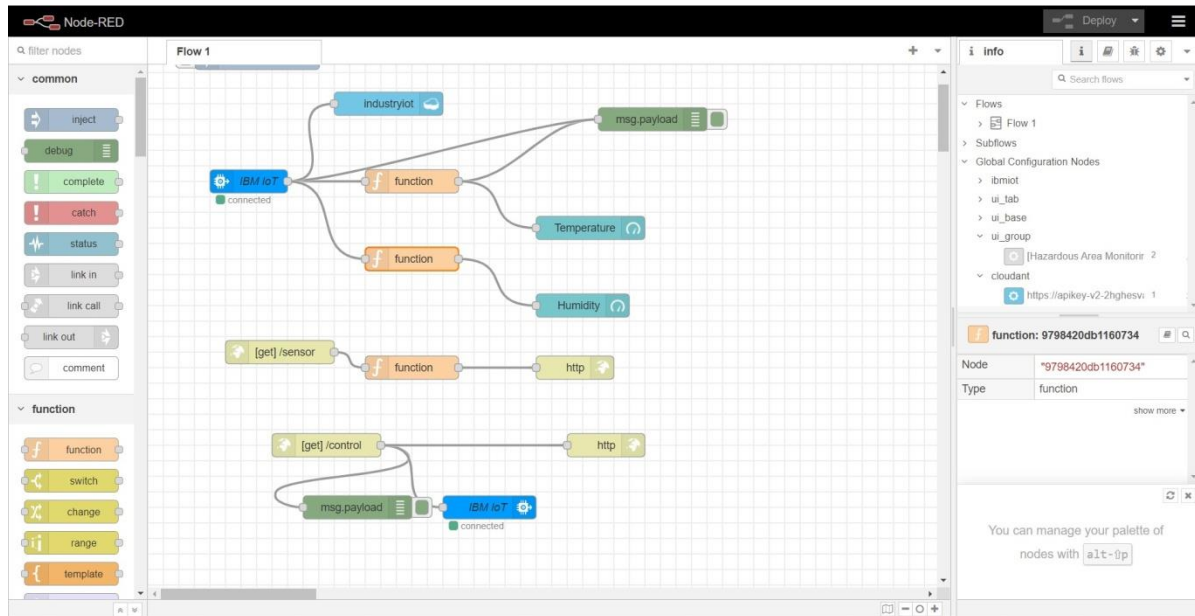


Develop The Web Application Using Node-RED

Date	12 November 2022
Team Id	PNT2022TMID51106
Title	Hazardous Area Monitoring for Industrial Plant using IoT

Node red flow



Function blocks

The screenshot shows the Node-RED web interface. On the left, the 'function' node palette is visible. The main workspace shows a flow with an 'ibmiot' node connected to two 'function' nodes. The 'Edit function node' dialog is open, displaying the following JavaScript code:

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

The 'Info' tab on the right shows the node's ID as '815cba7c7af38e65' and its type as 'function'. A message at the bottom of the Info tab states: 'Pressing enter will edit the first node in the current selection'.

This screenshot shows the same Node-RED interface, but the function node being edited has been updated. The JavaScript code in the 'Edit function node' dialog is now:

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

The 'Info' tab on the right now shows the node's ID as '9798420db1160734' and its type as 'function'. At the bottom of the Info tab, there is a tip: 'Show the Info tab with ctrl-g i or the Debug tab with ctrl-g d'.

Node-RED

Flow 1

common

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

function

- function
- switch
- change
- range
- template

industryiot

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

Flow 1

common

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

function

- function
- switch
- change
- range
- template

industryiot

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...

function: 9798420db1160734

Node: "9798420db1160734"

Type: function

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

The screenshot displays the Node-RED web interface. On the left, the 'common' and 'function' node palettes are visible. The main workspace shows a flow titled 'Flow 1' with several nodes: 'inject', 'debug', 'complete', 'catch', 'status', 'link in', 'link call', 'link out', 'comment', 'function', 'msg.payload', 'ibmiot', and 'industryiot'. The 'Edit gauge node' dialog is open, showing the configuration for a gauge widget. The 'Properties' section includes fields for 'Group' (Hazardous Area Monitoring for Industri), 'Size' (auto), 'Type' (Gauge), 'Label' (Temperature), 'Value format' ({(value)}), 'Units' (c), 'Range' (min 0, max 100), 'Colour gradient' (a gradient from green to yellow to red), 'Sectors' (0, optional, optional, optional, 100), 'Class' (Optional CSS class name(s) for widget), and 'Name'. The right sidebar shows the 'Info' panel with details about the 'Temperature' node, including its ID '50e22bf31d3e6148*' and type 'ul_gauge'.