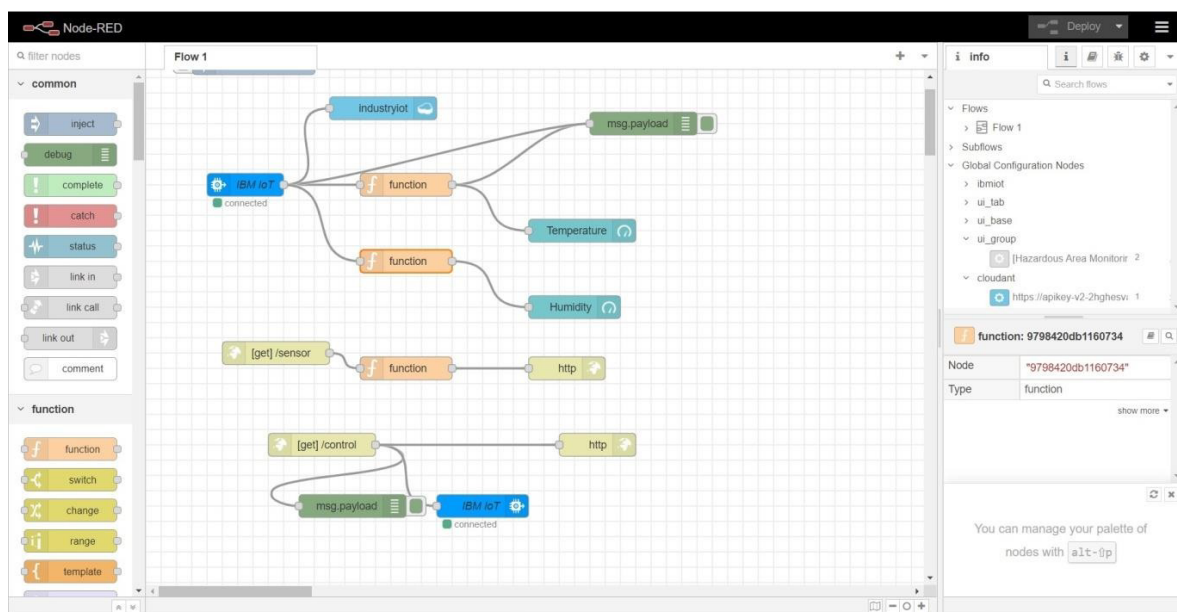


Team ID : PNT2022TMID11820

## Develop The Web Application Using Node-RED

### Node red flow



Team ID : PNT2022TMID11820

## Function blocks

The screenshot shows the Node-RED web interface. On the left, the 'common' and 'function' node palettes are visible. The main workspace displays a flow named 'Flow 1' with several nodes: an 'inject' node, a 'debug' node, a 'complete' node, a 'catch' node, a 'status' node, 'link in' and 'link out' nodes, a 'comment' node, and two 'function' nodes. One 'function' node is selected, and its configuration panel is open on the right. The 'Properties' tab shows the node's name as 'Name'. The 'On Message' tab is active, displaying the following JavaScript code:

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

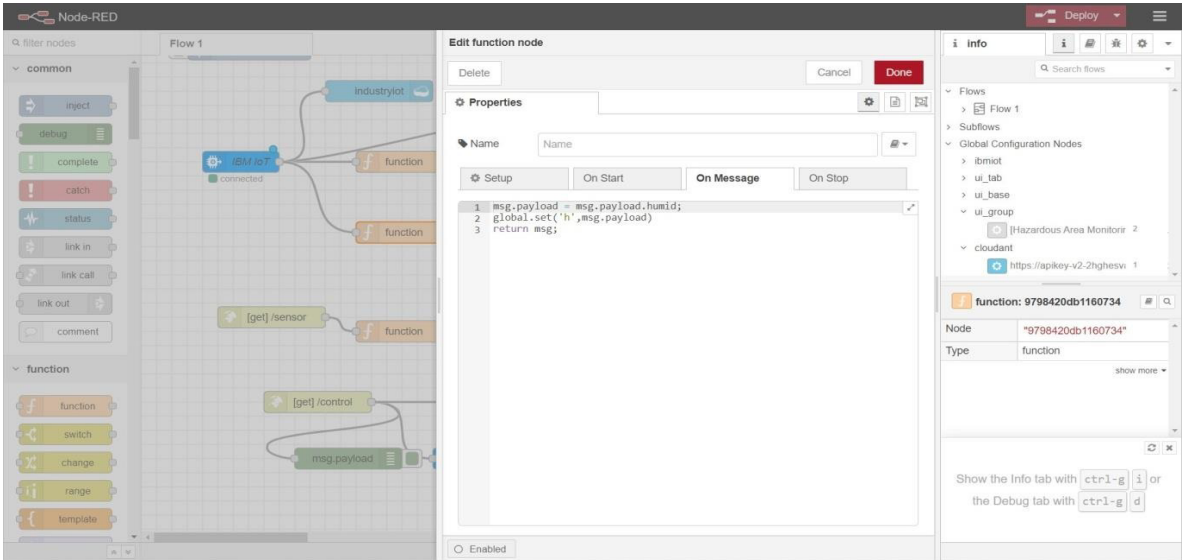
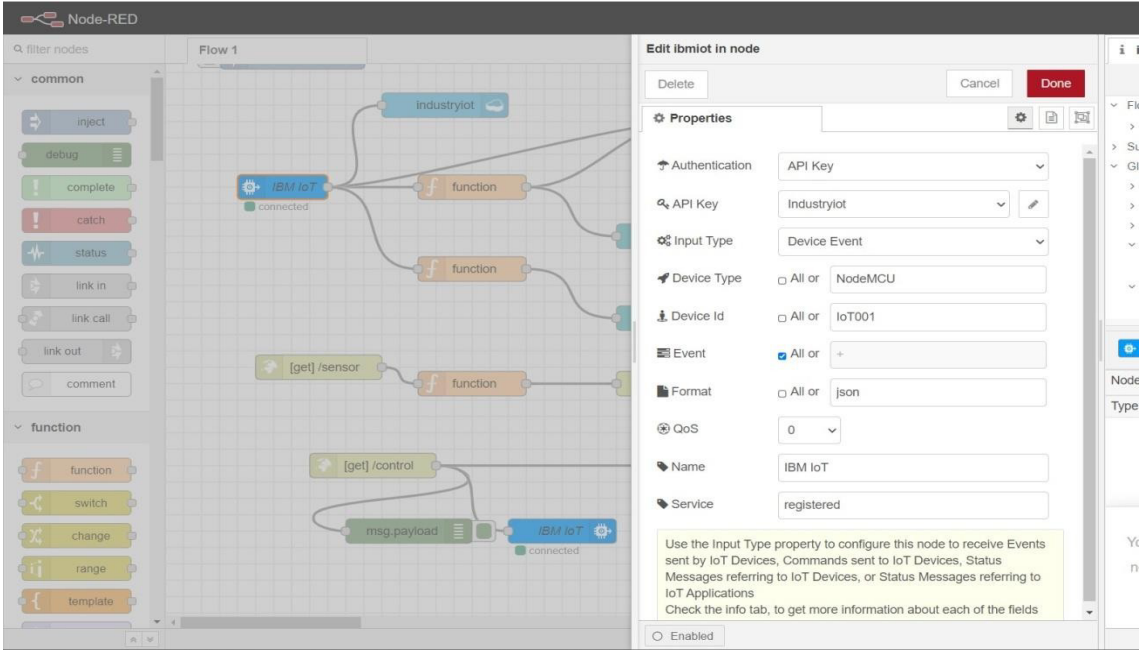
The right sidebar shows the 'info' panel with a search bar and a list of flows and subflows. Below this, the 'function: 815cba7c7af38e65' node is selected, showing its ID and type.

The screenshot shows the Node-RED web interface. On the left, the 'common' and 'function' node palettes are visible. The main workspace displays a flow named 'Flow 1' with several nodes: an 'inject' node, a 'debug' node, a 'complete' node, a 'catch' node, a 'status' node, 'link in' and 'link out' nodes, a 'comment' node, and two 'function' nodes. One 'function' node is selected, and its configuration panel is open on the right. The 'Properties' tab shows the node's name as 'Name'. The 'On Message' tab is active, displaying the following JavaScript code:

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

The right sidebar shows the 'info' panel with a search bar and a list of flows and subflows. Below this, the 'function: 9798420db1160734' node is selected, showing its ID and type.

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Node-RED interface showing a flow diagram and the 'Edit gauge node' configuration panel.

**Flow Diagram:** The flow starts with an 'IBM IoT' node connected to a 'function' node. This 'function' node is connected to an 'IndustryIoT' node. Another 'function' node is connected to the 'IndustryIoT' node. A '[get]/sensor' node is connected to a 'function' node, which is then connected to an 'IBM IoT' node. A 'msg.payload' node is connected to an 'IBM IoT' node.

**Edit gauge node Properties:**

- Group: [Hazardous Area Monitoring for Industri]
- Size: auto
- Type: Gauge
- Label: Temperature
- Value format: {{value}}
- Units: c
- Range: min 0 max 100
- Colour gradient: [Green, Yellow, Red]
- Sectors: 0 optional optional 100
- Class: Optional CSS class name(s) for widget
- Name:

**Info Panel:**

- Flows: Flow 1
- Subflows:
- Global Configuration Nodes: ibmiot, ui\_tab, ui\_base, ui\_group
- cloudant: https://apikey-v2-2ghesv:1
- Temperature: Node \*50e22bf31d3e6148\*, Type ul\_gauge

Node-RED interface showing a flow diagram and the 'Edit gauge node' configuration panel.

**Flow Diagram:** The flow starts with an 'IBM IoT' node connected to a 'function' node. This 'function' node is connected to an 'IndustryIoT' node. Another 'function' node is connected to the 'IndustryIoT' node. A '[get]/sensor' node is connected to a 'function' node, which is then connected to an 'IBM IoT' node. A 'msg.payload' node is connected to an 'IBM IoT' node.

**Edit gauge node Properties:**

- Group: [Hazardous Area Monitoring for Industri]
- Size: auto
- Type: Gauge
- Label: Humidity
- Value format: {{value}}
- Units: %
- Range: min 0 max 100
- Colour gradient: [Green, Yellow, Red]
- Sectors: 0 optional optional 100
- Class: Optional CSS class name(s) for widget
- Name:

**Info Panel:**

- Flows: Flow 1
- Subflows:
- Global Configuration Nodes: ibmiot, ui\_tab, ui\_base, ui\_group
- cloudant: https://apikey-v2-2ghg
- Humidity: Node \*a214ca6c4eabe, Type ul\_gauge

Export the selected node current tab with `ctrl`