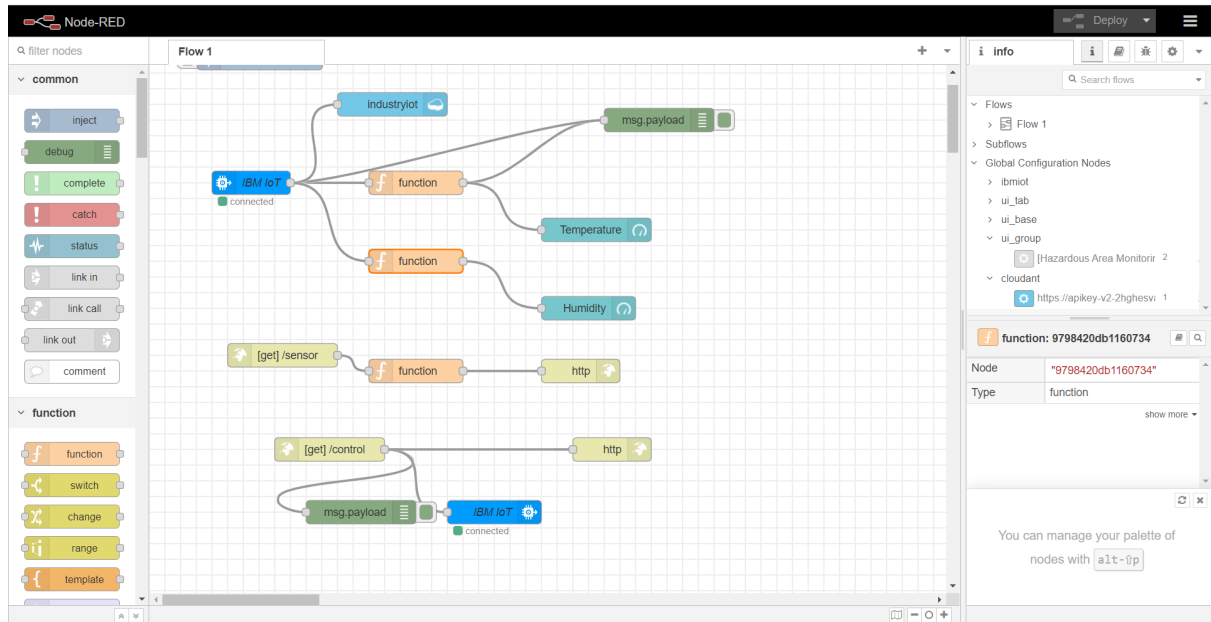


Develop The Web Application Using Node-RED

| | |
|---------|--|
| Date | 10 November 2022 |
| Team Id | PNT2022TMID43363 |
| Title | Hazardous Area Monitoring for Industrial Plant using IoT |

Node red flow



Function blocks

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

function

function

function

[get]/sensor

[get]/control

msg.payload

Edit function node

Delete

Cancel

Done

Properties

Name

Setup

On Start

On Message

On Stop

1 msg.payload = msg.payload.temp;

2 global.set('t',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 Monitorir 2

cloudant

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

function: 815cba7c7af38e65

Node

"815cba7c7af38e65"

Type

function

show more

Pressing enter will edit the first node in the current selection

Node-RED

filter nodes

common

inject

debug

complete

catch

status

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function

function

switch

change

range

template

Flow 1

industryiot

function

function

function

[get]/sensor

[get]/control

msg.payload

Edit function node

Delete

Cancel

Done

Properties

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 Monitorir 2

cloudant

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

function: 9798420db1160734

Node

"9798420db1160734"

Type

function

show more

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

IBM IoT

function

function

[get] /sensor

function

[get] /control

msg.payload

IBM IoT

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

IBM IoT

function

function

[get] /sensor

function

[get] /control

msg.payload

function node

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`

Node-RED interface showing a flow named "Flow 1" with nodes: inject, debug, complete, catch, status, link in, link call, link out, comment, function, switch, change, range, template, IBM IoT, industryiot, function, function, function, [get]/sensor, [get]/control, msg.payload, and IBM IoT. The "Edit gauge node" panel is open, showing properties for a gauge widget. The gauge is labeled "Temperature" and has a range from 0 to 100. The color gradient is set to green, yellow, and red. The value format is {{value}} and the units are c. The node is named "Temperature" and has a node ID of "50e22bf31d3e6148".

Edit gauge node

Delete Cancel Done

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:

Node: "50e22bf31d3e6148" Type: ui_gauge

Node-RED interface showing a flow named "Flow 1" with nodes: inject, debug, complete, catch, status, link in, link call, link out, comment, function, switch, change, range, template, IBM IoT, industryiot, function, function, function, [get]/sensor, [get]/control, msg.payload, and IBM IoT. The "Edit gauge node" panel is open, showing properties for a gauge widget. The gauge is labeled "Humidity" and has a range from 0 to 100. The color gradient is set to green, yellow, and red. The value format is {{value}} and the units are %. The node is named "Humidity" and has a node ID of "a214ca6c4eabe".

Edit gauge node

Delete Cancel Done

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:

Node: "a214ca6c4eabe" Type: ui_gauge

Export the selected node:
current tab with **ctrl**