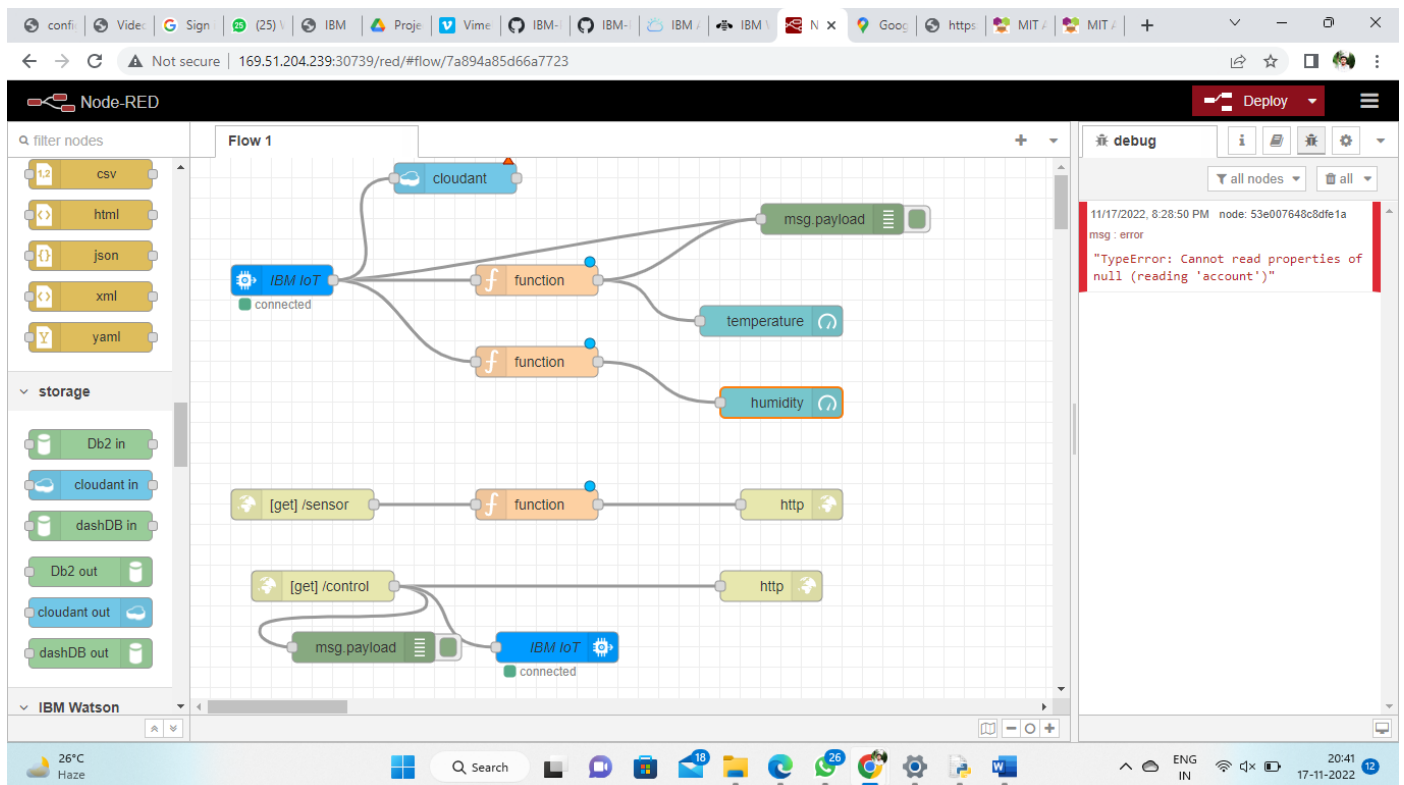


# Develop The Web Application Using Node-RED

Date	17 November 2022
Team Id	PNT2022TMID28572
Title	Hazardous Area Monitoring for Industrial Plant using IoT

## Node red flow



# Function blocks

The screenshot displays the Node-RED web interface in a browser. The main workspace shows a flow with an 'IBM IoT' node connected to a 'connected' node, which then connects to a '[get] /sensor' node. The output of the sensor node is connected to a '[get] /control' node, which then connects to a 'msg.payload' node. The 'Edit function node' panel is open, showing the following code:

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

The 'debug' console on the right shows an error message:

```
11/17/2022, 8:28:50 PM node: 53e007648c8dfe1a
msg: error
"TypeError: Cannot read properties of
null (reading 'account')"
```

The bottom of the screen shows a Windows taskbar with various icons and a system tray displaying the date and time as 20:34 on 17-11-2022.

Node-RED interface showing a flow with an IBM IoT node. The "Edit function node" dialog is open, displaying the following code:

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

The debug console shows an error:

```
11/17/2022, 8:28:50 PM node: 53e007648c8dfe1a
msg: error
"TypeError: Cannot read properties of
null (reading 'account')"
```

Node-RED interface showing a flow with an IBM IoT node. The "Edit ibmiot in node" dialog is open, displaying the following configuration:

- Authentication: API Key
- API Key: bb957b0d84d4a59f
- Input Type: Device Command
- Device Type: ☐ All or ☒ NodeMCU
- Device Id: ☐ All or ☒ 123456
- Command: ☐ All or ☒ Data
- Format: ☐ All or ☒ json
- QoS: 0
- Name: IBM IoT

The debug console shows an error:

```
11/17/2022, 8:28:50 PM node: 53e007648c8dfe1a
msg: error
"TypeError: Cannot read properties of
null (reading 'account')"
```

Node-RED interface showing a flow with an IBM IoT node and a function node. The function node is being edited, displaying the following code:

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

The debug console shows an error message:

```
11/17/2022, 8:28:50 PM node: 53e007648c8dfe1a
msg: error
"TypeError: Cannot read properties of
null (reading 'account')"
```

Node-RED interface showing a flow with an IBM IoT node and a gauge node. The gauge node is being edited, displaying the following properties:

- Group: [hazardous area] hazardous area
- Size: auto
- Type: Gauge
- Label: temperature
- Value format: {{value}}
- Units: units
- Range: min 0 max 60
- Colour gradient: [Green, Yellow, Red]
- Sectors: 0 ... optional ... optional ... 60

The debug console shows an error message:

```
11/17/2022, 8:28:50 PM node: 53e007648c8dfe1a
msg: error
"TypeError: Cannot read properties of
null (reading 'account')"
```

conf: | Vide: | Sign | (25) | IBM | Proje | Vime | IBM- | IBM- | IBM / | IBM | N x | Goo | https | MIT / | MIT / | +

← → ↺ ⚠ Not secure | 169.51.204.239:30739/red/#flow/7a894a85d66a7723

Node-RED

Deploy

filter nodes

csv | html | json | xml | yaml

storage

Db2 in | cloudant in | dashDB in | Db2 out | cloudant out | dashDB out

IBM Watson

Flow 1

cloudant

IBM IoT  
connected

function

function

[get] /sensor

function

[get] /control

msg.payload

IBM IoT  
connected

Edit gauge node

Delete | Cancel | Done

Properties

Group

[hazardous area] hazardous area

Size

auto

Type

Gauge

Label

humidity

Value format

{{value}}

Units

units

Range

min 0 max 60

Colour gradient

Sectors

0 ... optional ... optional ... 60

Enabled

debug

all nodes | all

11/17/2022, 8:28:50 PM node: 53e007648c8dfe1a  
msg: error  
"TypeError: Cannot read properties of null (reading 'account')"

26°C  
Haze

Search

18 26

ENG IN

20:35  
17-11-2022