

Sprint-2

Date	04 November 2022
Team ID	PNT2022TMID01100
Project Name	Project – Signs with smart connectivity for better safety.

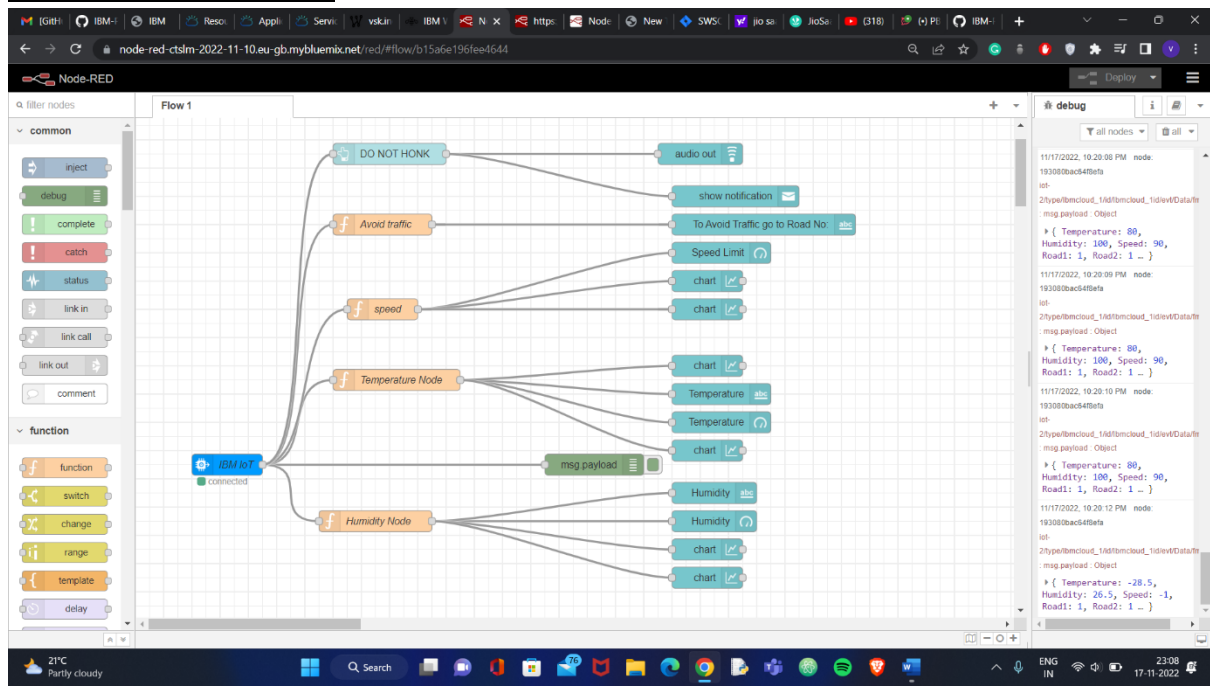
Sending data to cloudL:

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar for 'Search by Device ID' is present. The main content area shows a table of devices with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. A device with ID 'Ibmcloud_1id' is selected, showing a status of 'Disconnected'. Below the table, the 'Recent Events' tab is active, displaying a list of events with columns: Event, Value, Format, and Last Received. The events show a stream of data including temperature, humidity, and speed.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
Ibmcloud_1id	Disconnected	Ibmcloud_1	Device	13 Oct 2022 14:20	

Event	Value	Format	Last Received
Data	{"Temperature":28.5,"Humidity":26.5,"Speed":...}	json	a few seconds ago
Data	{"Temperature":80,"Humidity":100,"Speed":90,...}	json	a few seconds ago
Data	{"Temperature":80,"Humidity":100,"Speed":90,...}	json	a few seconds ago
Data	{"Temperature":80,"Humidity":100,"Speed":90,...}	json	a few seconds ago
Data	{"Temperature":80,"Humidity":100,"Speed":90,...}	json	a minute ago

Node red services:



Edit function node

Delete

Cancel

Done

⚙ Properties

📌 Name

speed

⚙ Setup

On Start

On Message

On Stop

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

Edit function node

Delete

Cancel

Done

⚙️ Properties

⚙️

📄

🖨️

🔑 Name

Avoid traffic

📄 ▼

⚙️ Setup

On Start

On Message

On Stop

1 var R1=msg.payload.Road1;

2 var R2=msg.payload.Road2;

3 var R3=msg.payload.Road3;

4 var R4=msg.payload.Road4;

5

6 Avoid_traffic=Math.min(R1, R2, R3, R4);

7 store="-";

8 switch (Avoid_traffic) {

9 case R1 : store="R1";

10 break;

11 case R2 : store="R2";

12 break;

13 case R3 : store="R3";

14 break;

15 case R4 : store="R4";

16 break;

17 }

18 msg.payload=msg.payload.store;

19 global.set('store',msg.payload);

20 return msg;

21

Edit function node

Delete

Cancel

Done

⚙️ Properties

⚙️

📄

🖨️

🔑 Name

Temperature Node

📄 ▼

⚙️ Setup

On Start

On Message

On Stop

1 msg.payload=msg.payload.Temperature

2 global.set('t',msg.payload)

3 return msg;

Edit function node

Delete

Cancel

Done

⚙ Properties



📁 Name

Humidity Node



⚙ Setup

On Start

On Message

On Stop

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



node-red-ctrlm-2022-11-10.eu-gb.mybluemix.net/red/#flow/b15a6e196fee4644

Node-RED

Flow 1

Humidity Node

Humidity

chart

chart

Light on

Light off

[get]/sensor

httpfunctionnode

[get]/control

commandfunctionnode

http

http

inject

simpledatabase

simpledatabase

msg payload

msg payload

debug

```
11/17/2022, 10:20:08 PM node: 193080bac449fa id: 279pefbmccloud_1iddfbmccloud_1idv4Data msg payload: Object > { Temperature: 80, Humidity: 100, Speed: 90, Road1: 1, Road2: 1 ... } 11/17/2022, 10:20:09 PM node: 193080bac449fa id: 279pefbmccloud_1iddfbmccloud_1idv4Data msg payload: Object > { Temperature: 80, Humidity: 100, Speed: 90, Road1: 1, Road2: 1 ... } 11/17/2022, 10:20:10 PM node: 193080bac449fa id: 279pefbmccloud_1iddfbmccloud_1idv4Data msg payload: Object > { Temperature: -28.5, Humidity: 26.5, Speed: -1, Road1: 1, Road2: 1 ... }
```

21°C Party cloudy

Search

ENG IN

23:15 17-11-2022

Edit button node

Delete

Cancel

Done

Properties

Group

[control] Controls

Size

auto

Icon

optional icon

Label

Light on

Tooltip

optional tooltip

Color

white

Background

optional background color

☒ When clicked, send:

Payload

{ "command": "light on" }

Topic

msg. topic

→ If msg arrives on input, emulate a button click: ☐

Class

Optional CSS class name(s) for widget

Name

Name

☐ Enabled

Edit button node




Delete

Cancel

Done

Properties



 Group  

 Size

 Icon


 Label

 Tooltip

 Color

 Background

 When clicked, send:

Payload  

Topic 

➔ If msg arrives on input, emulate a button click: ☐

 Class

 Name

Edit http in node

Delete

Cancel

Done

Properties

Method

GET

URL

/sensor

Name

Name

Edit function node

Delete

Cancel

Done

Properties

Name

httpfunctionnode

Setup

On Start

On Message

On Stop

```
1 msg.payload={
2   "Temp":global.get ('t'),
3   "Humid":global.get ('h'),
4   "Speed":global.get('speed'),
5   "store":global.set('store'),
6 }
7
8 return msg;
```

Edit http in node

Delete

Cancel

Done

⚙ Properties



⚙ Method GET

🌐 URL /control

📁 Name Name

Edit function node

Delete

Cancel

Done

⚙ Properties



📁 Name commandfunctionnode

⚙ Setup

On Start

On Message

On Stop

```
1 msg.payload=msg.payload.command
2 return msg;
```