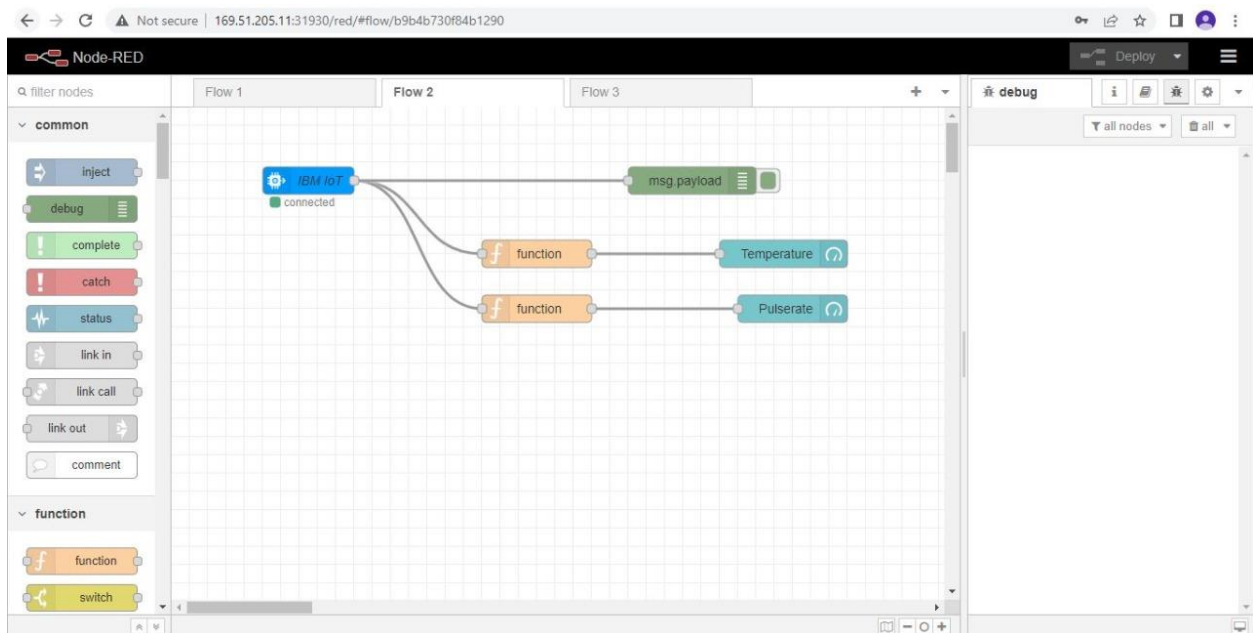
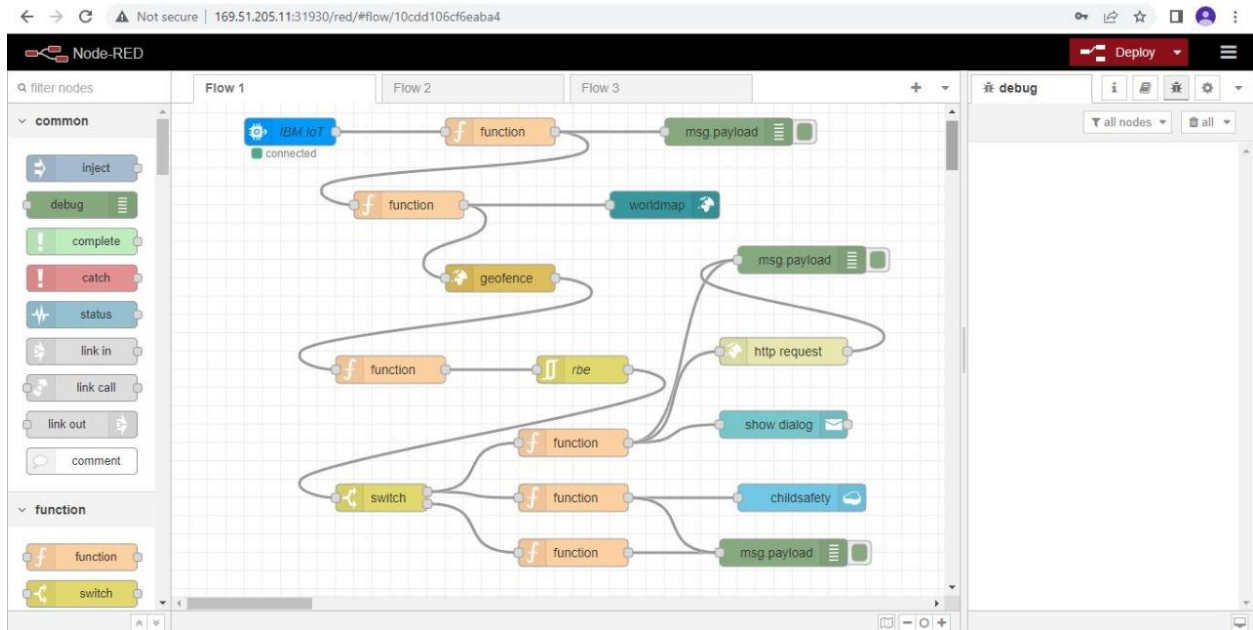


SPRINT – 2

Team ID	PNT2022TMID34921
Project Name	IOT Based Safety Gadget for Child Safety Monitoring and Notification



Node-RED interface showing the configuration of an IBM IoT node. The node is named "connected" and is connected to a function node. The configuration panel shows the following settings:

- Authentication: API Key
- API Key: 813ee227044ba37c
- Input Type: Device Event
- Device Type: ☐ All or ☐ RSVKAIoTdevice
- Device Id: ☐ All or ☐ RSVKA
- Event: ☒ All or ☐ +
- Format: ☐ All or ☐ json
- QoS: 0
- Name: IBM IoT
- Service: registered
- ☐ Enabled

The debug console shows the following messages:

```
msg.payload: {
  Name: "Child", lat: 8.26, lon: 77.35, Temperature: 99, Pulse rate: 192
}
11/19/2022, 7:55:49 PM node:cc453a4bbb5436da
iot-
2/type/Anu123456/Id/Anu123456_2/ev/Event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.5, lon: 77.28, Temperature: 96, Pulse rate: 190
}
11/19/2022, 7:55:52 PM node:cc453a4bbb5436da
iot-
2/type/Anu123456/Id/Anu123456_2/ev/Event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.53, lon: 77.33, Temperature: 96, Pulse rate: 107
}
11/19/2022, 7:55:55 PM node:cc453a4bbb5436da
iot-
2/type/Anu123456/Id/Anu123456_2/ev/Event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.58, lon: 77.33, Temperature: 99, Pulse rate: 132
}
```

Node-RED interface showing the configuration of a debug node. The node is named "debug" and is connected to a function node. The configuration panel shows the following settings:

- Output: msg.payload
- To: ☒ debug window, ☐ system console, ☐ node status (32 characters)
- Name: Name
- ☐ Enabled

The debug console shows the following messages:

```
msg.payload: {
  Name: "Child", lat: 8.26, lon: 77.35, Temperature: 99, Pulse rate: 192
}
11/19/2022, 7:55:49 PM node:cc453a4bbb5436da
iot-
2/type/Anu123456/Id/Anu123456_2/ev/Event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.5, lon: 77.28, Temperature: 96, Pulse rate: 190
}
11/19/2022, 7:55:52 PM node:cc453a4bbb5436da
iot-
2/type/Anu123456/Id/Anu123456_2/ev/Event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.53, lon: 77.33, Temperature: 96, Pulse rate: 107
}
11/19/2022, 7:55:55 PM node:cc453a4bbb5436da
iot-
2/type/Anu123456/Id/Anu123456_2/ev/Event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.58, lon: 77.33, Temperature: 99, Pulse rate: 132
}
```

Node-RED: 169.51.205.11 x +

Not secure | 169.51.205.11:31930/red/#flow/10cdd106cf6eaba4

Node-RED

Filter nodes

Flow 1

common

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

function

- function
- switch

IBM IoT

connected

Edit function node

Delete Cancel Done

Properties

Name

Setup On Start On Message On Stop

```
1 msg.payload={
2   'name':global.get('name'),
3   'lat':global.get('latitude'),
4   'lon':global.get('longitude')
5 }
6 return msg;
```

Enabled

debug

all nodes all

msg.payload - Object

```
{ Name: "Child", lat: 8.26, lon: 77.35, Temperature: 99, Pulse rate: 192 }
```

11/19/2022, 7:55:49 PM node:cc453a4bbb543fda
iot-
2/type/Anu123456/Id/Anu123456_2/evt/event_2/fmt/json
: msg.payload - Object

```
{ Name: "Child", lat: 8.5, lon: 77.28, Temperature: 96, Pulse rate: 190 }
```

11/19/2022, 7:55:52 PM node:cc453a4bbb543fda
iot-
2/type/Anu123456/Id/Anu123456_2/evt/event_2/fmt/json
: msg.payload - Object

```
{ Name: "Child", lat: 8.53, lon: 77.33, Temperature: 96, Pulse rate: 107 }
```

11/19/2022, 7:55:55 PM node:cc453a4bbb543fda
iot-
2/type/Anu123456/Id/Anu123456_2/evt/event_2/fmt/json
: msg.payload - Object

```
{ Name: "Child", lat: 8.58, lon: 77.33, Temperature: 99, Pulse rate: 132 }
```

Node-RED: 169.51.205.11:31930/red/#flow/10cdd106cf6eaba4

Node-RED

Filter nodes

Flow 1

common

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

function

- function
- switch

IBM IoT

connected

Edit function node

Delete Cancel Done

Properties

Name

Setup On Start On Message On Stop

```
1 var name=msg.payload.name
2 var lat=msg.payload.lat
3 var lon=msg.payload.lon
4 global.set('latitude',lat)
5 global.set('longitude',lon)
6 global.set('name',name)
7 return msg;
```

Enabled

debug

all nodes all

msg.payload - Object

```
{ Name: "Child", lat: 8.26, lon: 77.35, Temperature: 99, Pulse rate: 192 }
```

11/19/2022, 7:55:49 PM node:cc453a4bbb543fda
iot-
2/type/Anu123456/Id/Anu123456_2/evt/event_2/fmt/json
: msg.payload - Object

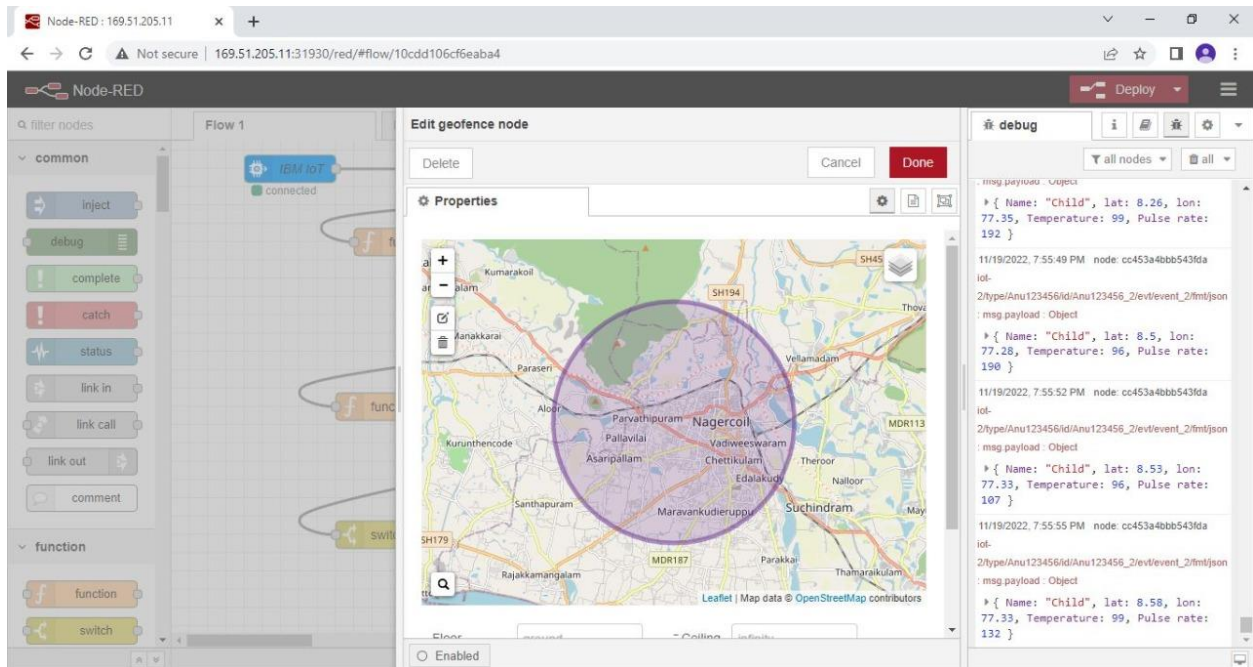
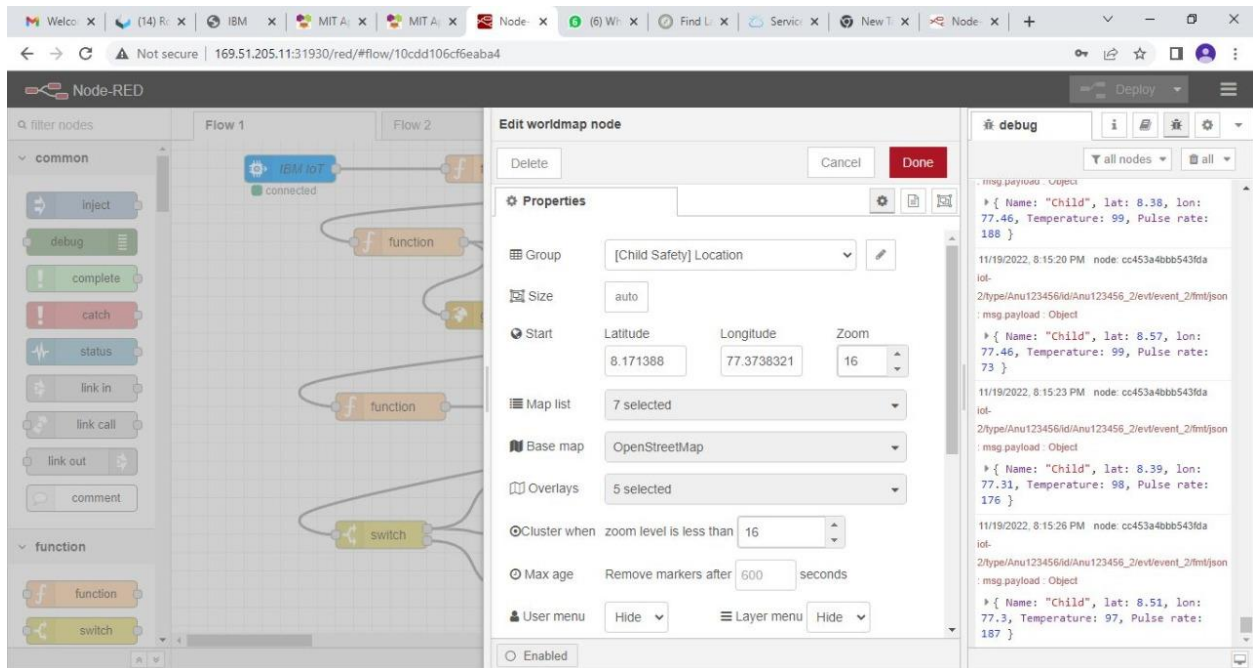
```
{ Name: "Child", lat: 8.5, lon: 77.28, Temperature: 96, Pulse rate: 190 }
```

11/19/2022, 7:55:52 PM node:cc453a4bbb543fda
iot-
2/type/Anu123456/Id/Anu123456_2/evt/event_2/fmt/json
: msg.payload - Object

```
{ Name: "Child", lat: 8.53, lon: 77.33, Temperature: 96, Pulse rate: 107 }
```

11/19/2022, 7:55:55 PM node:cc453a4bbb543fda
iot-
2/type/Anu123456/Id/Anu123456_2/evt/event_2/fmt/json
: msg.payload - Object

```
{ Name: "Child", lat: 8.58, lon: 77.33, Temperature: 99, Pulse rate: 132 }
```



Node-RED: 169.51.205.11

Not secure | 169.51.205.11:31930/red/#flow/10cdd106cf6eaba4

Node-RED

Filter nodes

Flow 1

common

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

function

- function
- switch

Edit function node

Delete Cancel Done

Properties

Name

Setup On Start On Message On Stop

```
1 msg.payload=msg.location.inarea
2 return msg;
```

Enabled

debug

all nodes all

msg.payload: Object

```
{ Name: "Child", lat: 8.26, lon: 77.35, Temperature: 99, Pulse rate: 192 }
```

11/19/2022, 7:55:49 PM node: cc453a4bb5436da

iot-

2/type/Anu123456/ld/Anu123456_2/ev/evEvent_2/fmt/json

msg.payload: Object

```
{ Name: "Child", lat: 8.5, lon: 77.28, Temperature: 96, Pulse rate: 190 }
```

11/19/2022, 7:55:52 PM node: cc453a4bb5436da

iot-

2/type/Anu123456/ld/Anu123456_2/ev/evEvent_2/fmt/json

msg.payload: Object

```
{ Name: "Child", lat: 8.53, lon: 77.33, Temperature: 96, Pulse rate: 107 }
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11/19/2022, 7:55:55 PM node: cc453a4bb5436da

iot-

2/type/Anu123456/ld/Anu123456_2/ev/evEvent_2/fmt/json

msg.payload: Object

```
{ Name: "Child", lat: 8.58, lon: 77.33, Temperature: 99, Pulse rate: 132 }
```

Node-RED: 169.51.205.11

Not secure | 169.51.205.11:31930/red/#flow/10cdd106cf6eaba4

Node-RED

Filter nodes

Flow 1

Flow 2

common

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

function

- function
- switch

Edit filter node

Delete Cancel Done

Properties

Mode block unless value changes

Property msg payload

Apply mode separately for each

msg topic

Name rbe

Enabled

debug

all nodes all

msg.payload: Object

```
{ Name: "Child", lat: 8.26, lon: 77.35, Temperature: 99, Pulse rate: 192 }
```

11/19/2022, 7:55:49 PM node: cc453a4bb5436da

iot-

2/type/Anu123456/ld/Anu123456_2/ev/evEvent_2/fmt/json

msg.payload: Object

```
{ Name: "Child", lat: 8.5, lon: 77.28, Temperature: 96, Pulse rate: 190 }
```

11/19/2022, 7:55:52 PM node: cc453a4bb5436da

iot-

2/type/Anu123456/ld/Anu123456_2/ev/evEvent_2/fmt/json

msg.payload: Object

```
{ Name: "Child", lat: 8.53, lon: 77.33, Temperature: 96, Pulse rate: 107 }
```

11/19/2022, 7:55:55 PM node: cc453a4bb5436da

iot-

2/type/Anu123456/ld/Anu123456_2/ev/evEvent_2/fmt/json

msg.payload: Object

```
{ Name: "Child", lat: 8.58, lon: 77.33, Temperature: 99, Pulse rate: 132 }
```

Node-RED: 169.51.205.11

Not secure | 169.51.205.11:31930/red/#flow/10cdd106cf6eaba4

Node-RED

Flow 1

common

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

function

- function
- switch

IBM IoT

connected

function

function

switch

Edit switch node

Delete Cancel Done

Properties

Name

Property

msg.payload

is false → 1

is true → 2

checking all rules

recreate message sequences

Enabled

debug

all nodes all

msg.payload: Object

```
{ Name: "Child", lat: 8.26, lon: 77.35, Temperature: 99, Pulse rate: 192 }
```

11/19/2022, 7:55:49 PM node: cc453a4bbb5436da iot-2/type/Anu123456/Id/Anu123456_2/ev/Event_2/fmt/json : msg.payload: Object

```
{ Name: "Child", lat: 8.5, lon: 77.28, Temperature: 96, Pulse rate: 190 }
```

11/19/2022, 7:55:52 PM node: cc453a4bbb5436da iot-2/type/Anu123456/Id/Anu123456_2/ev/Event_2/fmt/json : msg.payload: Object

```
{ Name: "Child", lat: 8.53, lon: 77.33, Temperature: 96, Pulse rate: 107 }
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11/19/2022, 7:55:55 PM node: cc453a4bbb5436da iot-2/type/Anu123456/Id/Anu123456_2/ev/Event_2/fmt/json : msg.payload: Object

```
{ Name: "Child", lat: 8.58, lon: 77.33, Temperature: 99, Pulse rate: 132 }
```

Node-RED: 169.51.205.11

Not secure | 169.51.205.11:31930/red/#flow/10cdd106cf6eaba4

Node-RED

Flow 1

common

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

function

- function
- switch

IBM IoT

connected

function

Edit function node

Delete Cancel Done

Properties

Name

Setup On Start On Message On Stop

```
1 var d = new Date();
2 var utc = d.getTime()+(d.getTimezoneOffset()*60000);
3 var offset = 5.5;
4 newDate = new Date(utc + (3600000*offset));
5 msg.payload={
6   "message":"Entry",
7   "Time":newDate.toLocaleString(),
8   "name":global.get('name'),
9   "lat":global.get('latitude'),
10  "lon":global.get('longitude')
11 };
12 return msg;
13
```

Enabled

debug

all nodes all

msg.payload: Object

```
{ Name: "Child", lat: 8.26, lon: 77.35, Temperature: 99, Pulse rate: 192 }
```

11/19/2022, 7:55:49 PM node: cc453a4bbb5436da iot-2/type/Anu123456/Id/Anu123456_2/ev/Event_2/fmt/json : msg.payload: Object

```
{ Name: "Child", lat: 8.5, lon: 77.28, Temperature: 96, Pulse rate: 190 }
```

11/19/2022, 7:55:52 PM node: cc453a4bbb5436da iot-2/type/Anu123456/Id/Anu123456_2/ev/Event_2/fmt/json : msg.payload: Object

```
{ Name: "Child", lat: 8.53, lon: 77.33, Temperature: 96, Pulse rate: 107 }
```

11/19/2022, 7:55:55 PM node: cc453a4bbb5436da iot-2/type/Anu123456/Id/Anu123456_2/ev/Event_2/fmt/json : msg.payload: Object

```
{ Name: "Child", lat: 8.58, lon: 77.33, Temperature: 99, Pulse rate: 132 }
```

Node-RED: 169.51.205.11

Not secure | 169.51.205.11:31930/red/#flow/10cdd106cf6eaba4

Node-RED

Flow 1

Flow 2

common

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

function

- function
- switch

Edit http request node

Delete Cancel Done

Properties

Method: GET

URL: <https://www.fast2sms.com/dashboard/sms/repo>

Payload: Ignore

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

☐ Use proxy

☐ Only send non-2xx responses to Catch node

☐ Disable strict HTTP parsing

Return: a UTF-8 string

Name: Name

☐ Enabled

debug

all nodes all

```
msg.payload: Object
{
  Name: "Child", lat: 8.26, lon: 77.35, Temperature: 99, Pulse rate: 192
}
11/19/2022, 7:55:49 PM node: cc453a4bbb543fda
iot-
2/type/Anu123456Id/Anu123456_2/event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.5, lon: 77.28, Temperature: 96, Pulse rate: 190
}
11/19/2022, 7:55:52 PM node: cc453a4bbb543fda
iot-
2/type/Anu123456Id/Anu123456_2/event_2/fmt/json
: msg.payload: Object
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iot-
2/type/Anu123456Id/Anu123456_2/event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.58, lon: 77.33, Temperature: 99, Pulse rate: 132
}
```

Node-RED: 169.51.205.11

Not secure | 169.51.205.11:31930/red/#flow/10cdd106cf6eaba4

Node-RED

Flow 1

Flow 2

common

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

function

- function
- switch

Flow 1

Flow 2

function

switch

msg.payload

worldmap

geofence

rbe

http request

show dialog

childsafety

msg.payload

debug

all nodes all

```
msg.payload: Object
{
  Name: "Child", lat: 8.26, lon: 77.35, Temperature: 99, Pulse rate: 192
}
11/19/2022, 7:55:49 PM node: cc453a4bbb543fda
iot-
2/type/Anu123456Id/Anu123456_2/event_2/fmt/json
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{
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iot-
2/type/Anu123456Id/Anu123456_2/event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.53, lon: 77.33, Temperature: 96, Pulse rate: 107
}
11/19/2022, 7:55:55 PM node: cc453a4bbb543fda
iot-
2/type/Anu123456Id/Anu123456_2/event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.58, lon: 77.33, Temperature: 99, Pulse rate: 132
}
```