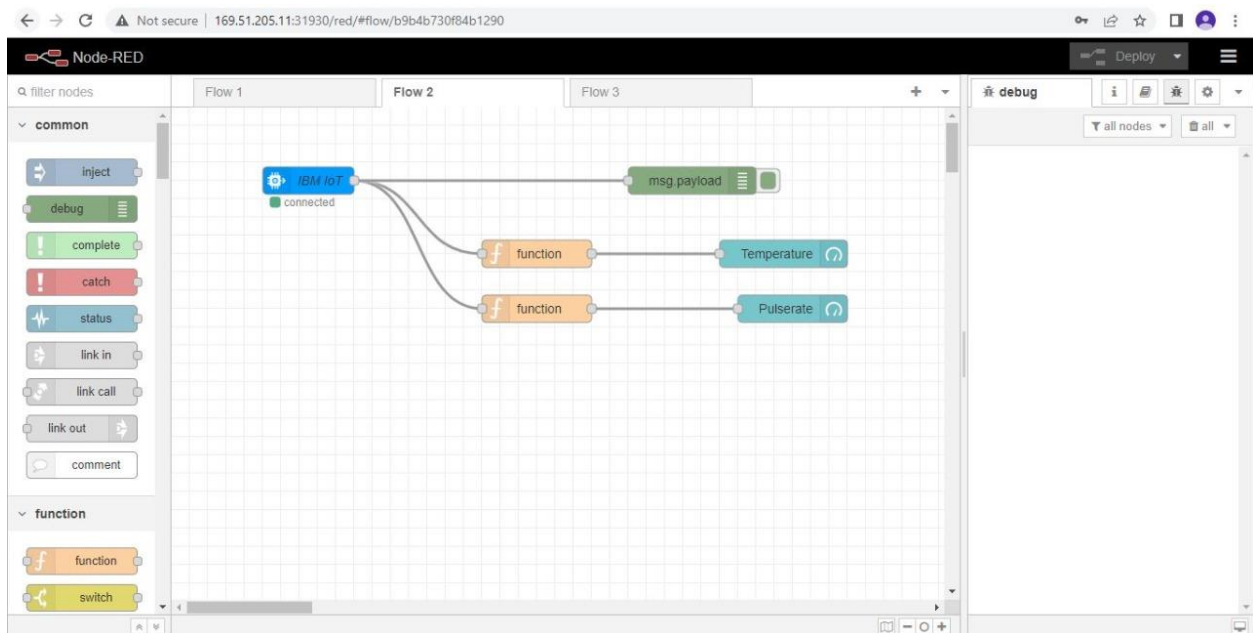
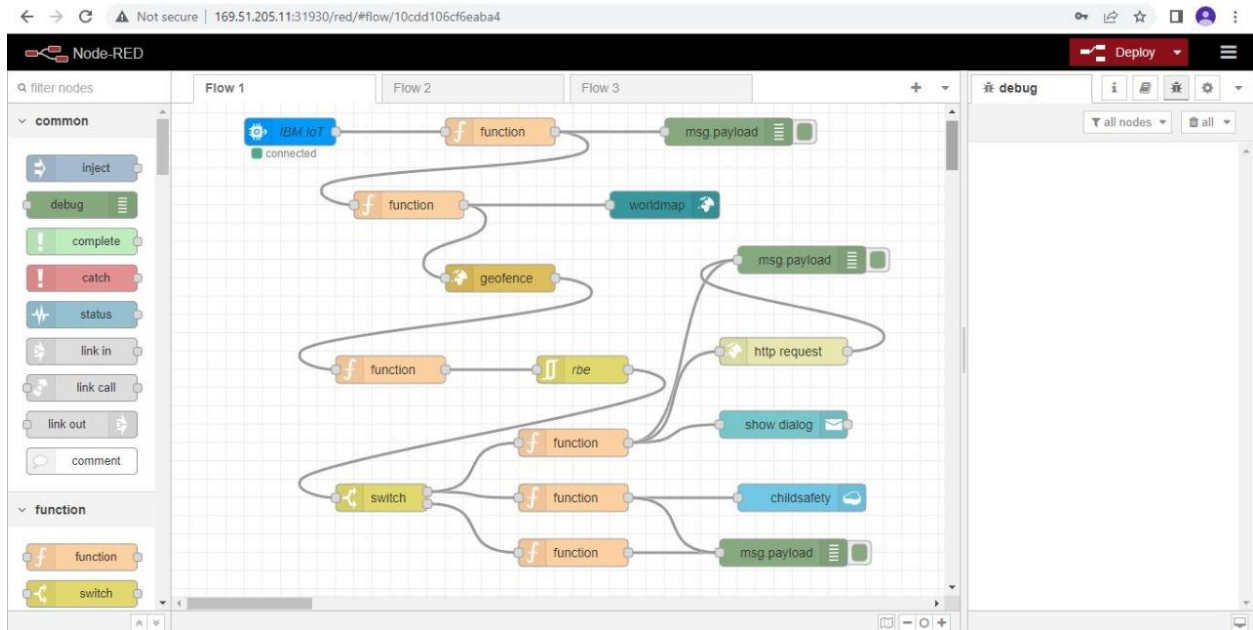


SPRINT – 2

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 left sidebar displays the node palette with categories like common and function. The main workspace shows a flow with an IBM IoT node connected to a function node. The right sidebar shows the debug console with a list of messages.

Edit ibmiot in node

Properties:

- 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

debug

```
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/ev/levent_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/ev/levent_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/ev/levent_2/fmt/json
msg.payload: Object
  Name: "Child", lat: 8.58, lon: 77.33, Temperature: 99, Pulse rate: 132
```

Node-RED interface showing a more complex flow. The left sidebar displays the node palette. The main workspace shows a flow with an IBM IoT node connected to a function node, which then branches into multiple paths. The right sidebar shows the debug console with a list of messages.

debug

```
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/ev/levent_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/ev/levent_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/ev/levent_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

connected

function

function

switch

Edit debug node

Delete Cancel Done

Properties

Output: msg.payload

To: ☒ debug window ☐ system console ☐ node status (32 characters)

Name: Name

Enabled

debug

all nodes

msg.payload: Object

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

11/19/2022, 7:55:49 PM node: cc453a4bb543fda
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 }
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11/19/2022, 7:55:52 PM node: cc453a4bb543fda
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: cc453a4bb543fda
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

Flow 1

common

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

function

- function
- switch

connected

function

Edit function node

Delete Cancel Done

Properties

Name: 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

msg.payload: Object

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

11/19/2022, 7:55:49 PM node: cc453a4bb543fda
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: cc453a4bb543fda
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: cc453a4bb543fda
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={
2   'name':global.get('name'),
3   'lat':global.get('latitude'),
4   'lon':global.get('longitude')
5 }
6 return msg;
```

Enabled

debug

all nodes

msg.payload: Object

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

11/19/2022, 7:55:49 PM node: cc453a4bb543fda
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: cc453a4bb543fda
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: cc453a4bb543fda
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

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 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

msg.payload: Object

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

11/19/2022, 7:55:49 PM node: cc453a4bb543fda
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: cc453a4bb543fda
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: cc453a4bb543fda
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

Edit geofence node

Delete Cancel Done

Properties

Map

Leaflet | Map data © OpenStreetMap contributors

debug

```
msg.payload: Object
{
  Name: "Child", lat: 8.26, lon: 77.35, Temperature: 99, Pulse rate: 192
}
11/19/2022, 7:55:49 PM node: cc453a4bb543fda
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: cc453a4bb543fda
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: cc453a4bb543fda
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

Flow 1

common

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

function

- function
- switch

Flow 2

Edit worldmap node

Delete Cancel Done

Properties

Group [Child Safety] Location

Size auto

Start Latitude Longitude Zoom

8.171388 77.3738321 16

Map list 7 selected

Base map OpenStreetMap

Overlays 5 selected

Cluster when zoom level is less than 16

Max age Remove markers after 600 seconds

User menu Hide Layer menu Hide

debug

```
msg.payload: Object
{
  Name: "Child", lat: 8.38, lon: 77.46, Temperature: 99, Pulse rate: 188
}
11/19/2022, 8:15:20 PM node: cc453a4bb543fda
iot-
2/type/Anu123456/Id/Anu123456_2/evt/event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.57, lon: 77.46, Temperature: 99, Pulse rate: 73
}
11/19/2022, 8:15:23 PM node: cc453a4bb543fda
iot-
2/type/Anu123456/Id/Anu123456_2/evt/event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.39, lon: 77.31, Temperature: 98, Pulse rate: 176
}
11/19/2022, 8:15:26 PM node: cc453a4bb543fda
iot-
2/type/Anu123456/Id/Anu123456_2/evt/event_2/fmt/json
: msg.payload: Object
{
  Name: "Child", lat: 8.51, lon: 77.3, Temperature: 97, Pulse rate: 187
}
```

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 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: 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

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: Name

Property: msg.payload

is false → 1

is true → 2

+ add

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: 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

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/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: cc453a4bb5436da
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: cc453a4bb5436da
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

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 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

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/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: cc453a4bb5436da
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: cc453a4bb5436da
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

Filter nodes

Flow 1

Flow 2

common

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

function

- function
- switch

connected

function

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: cc453a4bb543fda
iot-
2/type/Anu123456/Id/Anu123456_2/ev/levent_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: cc453a4bb543fda
iot-
2/type/Anu123456/Id/Anu123456_2/ev/levent_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: cc453a4bb543fda
iot-
2/type/Anu123456/Id/Anu123456_2/ev/levent_2/fmt/json
: msg.payload: Object

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