

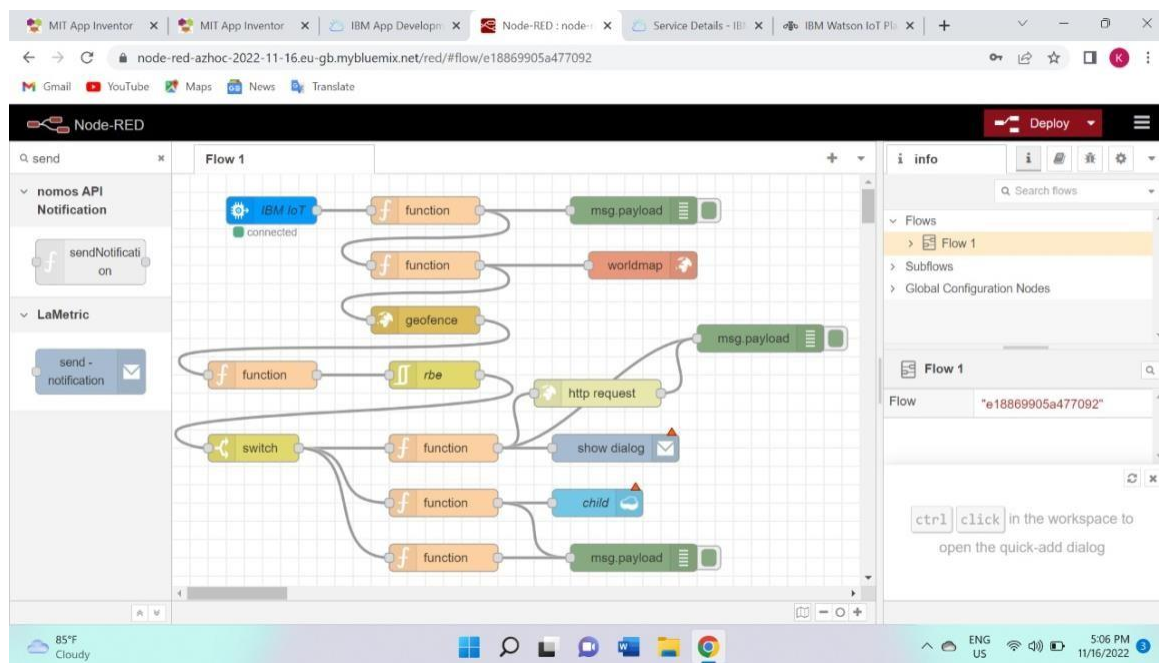
Project Development - Delivery plan sprint -2

IOT Based Safety Gadget for Child Safety Monitoring & Notification

TEAM ID : PNT2022TMID33905

Creating Node - Red service and connecting with IBM cloud

Creating Node-Red service:



Codes in each Node :

MIT App Inventor x MIT App Inventor x IBM App Developn x Node-RED : node-r x Service Details - IBM x IBM Watson IoT Pl x

node-red-azhoc-2022-11-16.eu-gb.mybluemix.net/red/#flow/e18869905a477092

Gmail YouTube Maps News Translate

Node-RED

Filter nodes

common

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

function

Flow 1

IBM IoT

connected

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

info

Search flows

Flows

- Flow 1
- Subflows
- Global Configuration Nodes

function: e1a0fe7e191d15db

Node "e1a0fe7e191d15db"

Type function

show more

Pressing enter will edit the first node in the current selection

83°F Haze

ENG US

5:12 PM 11/16/2022

MIT App Inventor x MIT App Inventor x IBM App Developn x Node-RED : node-r x Service Details - IBM x IBM Watson IoT Pl x

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Node-RED

Filter nodes

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function

Flow 1

IBM IoT

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switch

Edit debug node

Delete Cancel Done

Properties

Output msg.payload

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

Name

Enabled

info

Search flows

Flows

- Flow 1
- Subflows
- Global Configuration Nodes

msg.payload

Node "d84ae2b2b8c2dadc"

Type debug

show more

Export the selected nodes, or the current tab with **ctrl-e**

83°F Haze

ENG US

5:13 PM 11/16/2022

cloud.ibm.com x MIT App Inven x MIT App Inven x IBM App Deve x Node-RED : n x Service Details x 1e5zwdIntern x +

node-red-azhoc-2022-11-16.eu-gb.mybluemix.net/red/#flow/e18869905a477092

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Node-RED

filter nodes

Flow 1

common

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

function

function

IBM IoT

connected


function

switch

Edit geofence node

Delete Cancel Done

Properties



Enabled

info

Search flows

- Flows
 - Flow 1
- Subflows
- Global Configuration Nodes

geofence

Node "a02d38e3dd8a0ad8"

Type geofence

show more

Move the selected nodes using the **↑** and **↓** keys. Hold **⇧** to nudge them further

81°F Cloudy

ENG US 7:03 PM 11/16/2022

cloud.ibm.com x MIT App Inven x MIT App Inven x IBM App Deve x Node-RED : n x Service Details x 1e5zwdIntern x +

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Node-RED

filter nodes

Flow 1

common

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

function

function

IBM IoT

connected

function

switch

Edit function node

Delete Cancel Done

Properties

Name Name

Setup On Start On Message On Stop

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

Enabled

info

Search flows

- Flows
 - Flow 1
- Subflows
- Global Configuration Nodes

function: 2f226a3bf6f0658a

Node "2f226a3bf6f0658a"

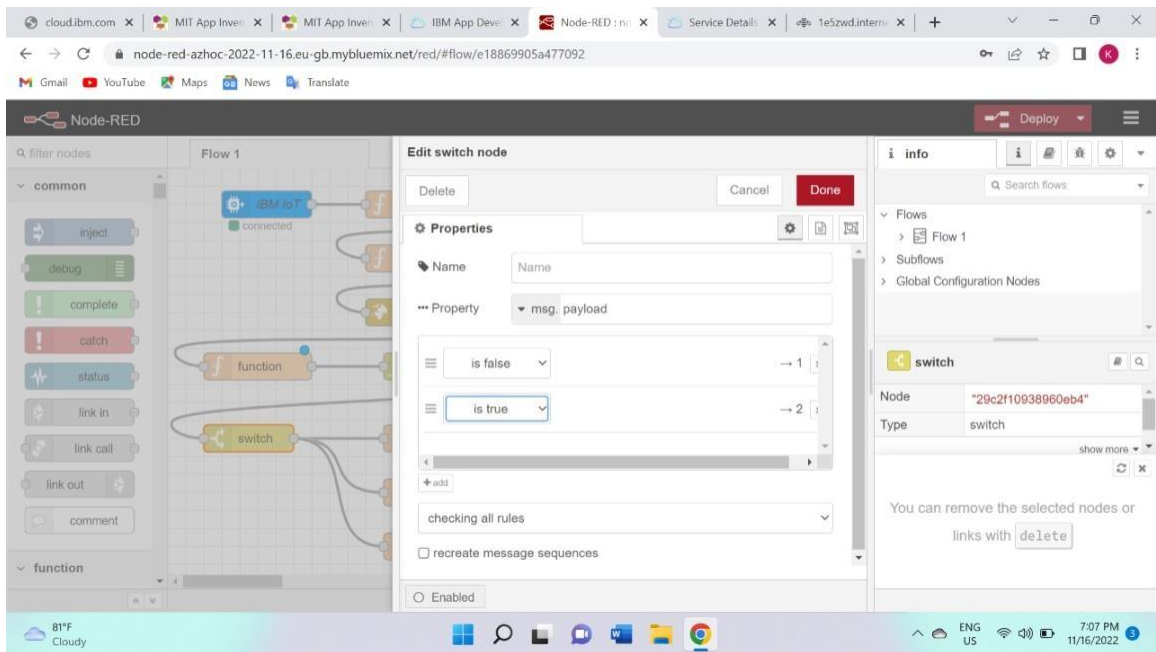
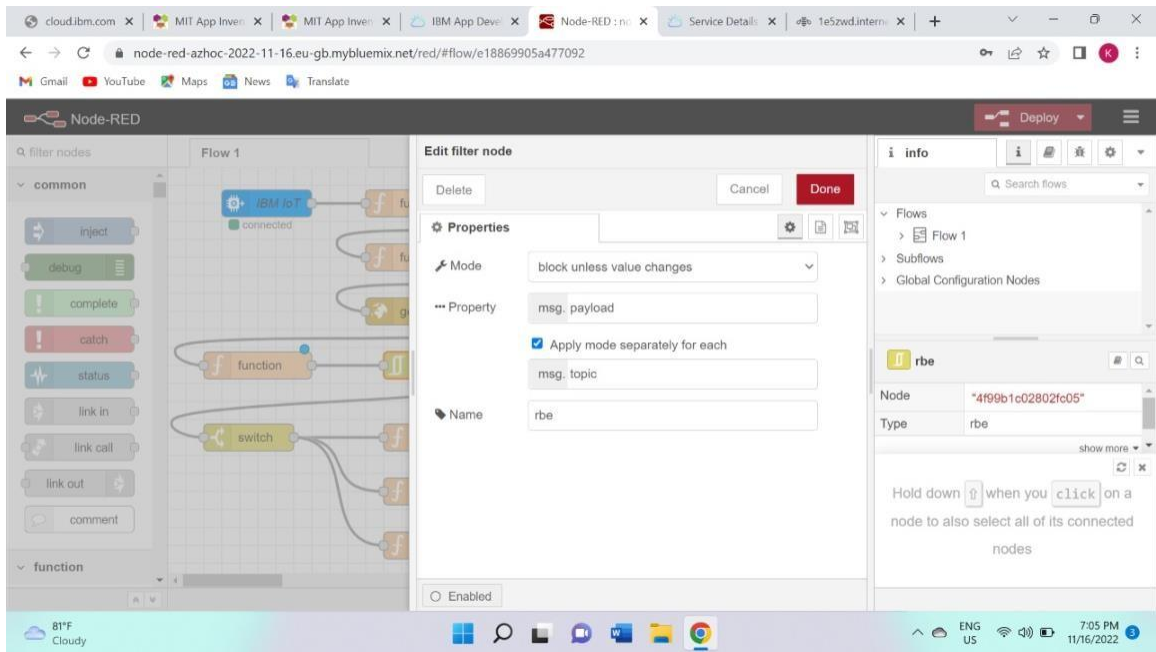
Type function

show more

Your flow configuration nodes are listed in the sidebar panel. It can be accessed from the menu or with **ctrl-g c**

81°F Cloudy

ENG US 7:04 PM 11/16/2022



cloud.ibm.com x MIT App Inventor x MIT App Inventor x IBM App Developer x Node-RED: no x Service Details x 1e5zwdIntern x +

node-red-azhoc-2022-11-16.eu-gb.mybluemix.net/red/#flow/e18869905a477092

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Node-RED

Deploy

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

```
3 var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
4
5 var offset = 5.5;
6
7 newDate = new Date(utc + (3600000 + offset));
8
9 msg.payload = {
10   "message": "Exit",
11   "Time": newDate.toLocaleString(),
12   "name": global.get('name'),
13   "lat": global.get('latitude'),
14   "lon": global.get('longitude')
15 };
16
17 return msg;
```

Enabled

info

Search flows

Flows

- Flow 1
- Subflows
- Global Configuration Nodes

function: bc2bd5e850f35c07

Node "bc2bd5e850f35c07"

Type function

Search for nodes using ctrl-f

80°F Partly cloudy

7:18 PM 11/16/2022

cloud.ibm.com x MIT App Inventor x MIT App Inventor x IBM App Developer x Node-RED: no x Service Details x 1e5zwdIntern x +

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Node-RED

Deploy

filter nodes

Flow 1

common

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

function

switch

Edit function node

Delete Cancel Done

Properties

Name

Setup On Start On Message On Stop

```
2 var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
3
4 var offset = 5.5;
5
6 newDate = new Date(utc + (3600000 + offset));
7
8
9 msg.payload = {
10   "message": "Entry",
11   "Time": newDate.toLocaleString(),
12   "name": global.get('name'),
13   "lat": global.get('latitude'),
14   "lon": global.get('longitude')
15 };
16
17 return msg;
```

Enabled

info

Search flows

Flows

- Flow 1
- Subflows
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function: 55df4654334dc482

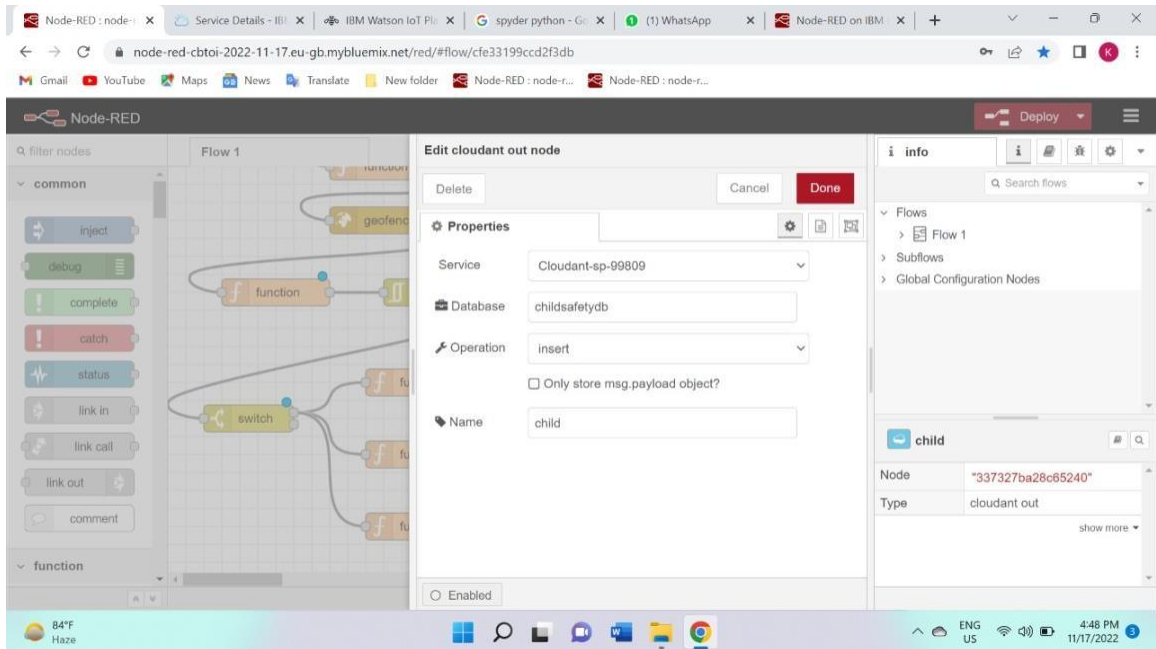
Node "55df4654334dc482"

Type function

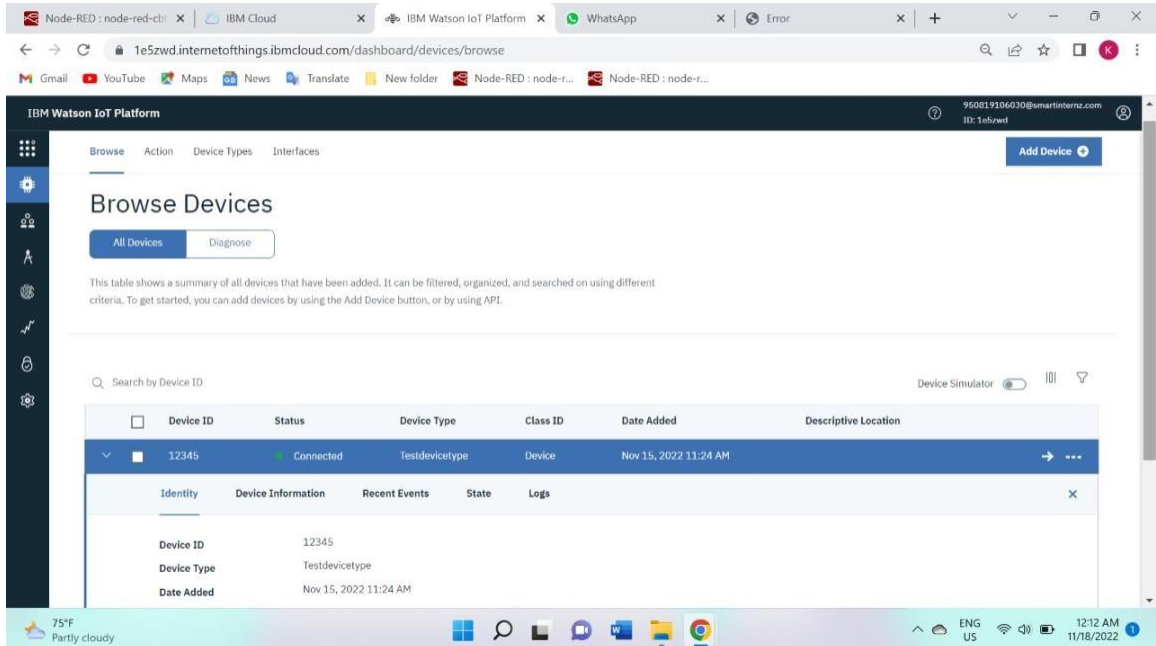
ctrl-space will toggle the view of this sidebar

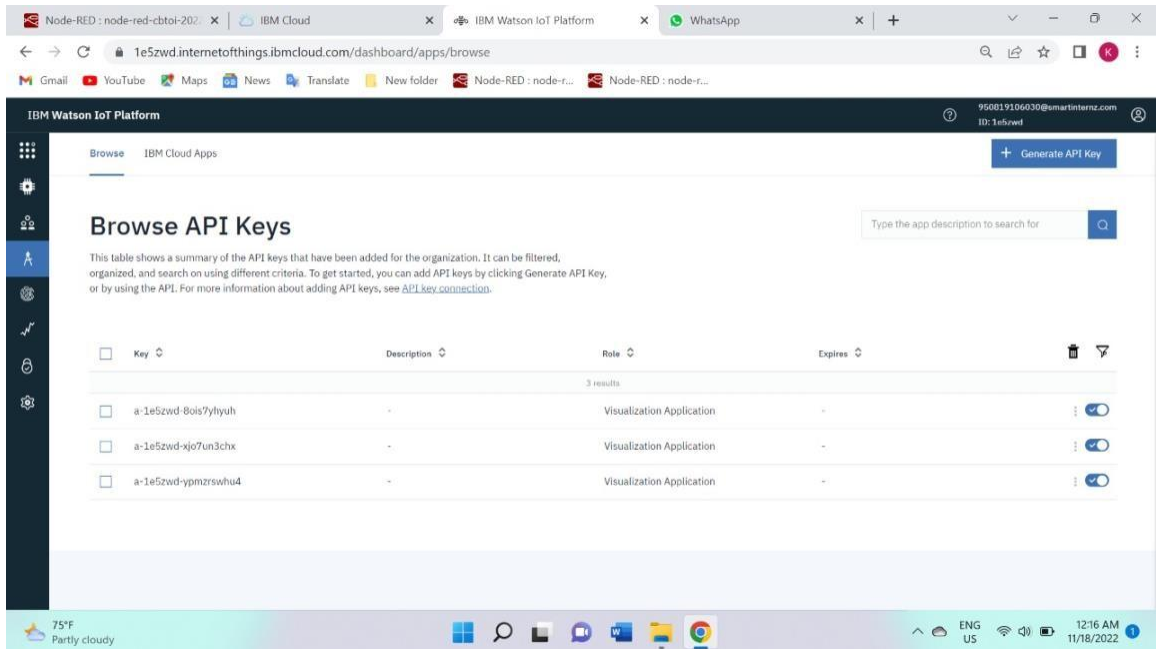
80°F Partly cloudy

7:20 PM 11/16/2022

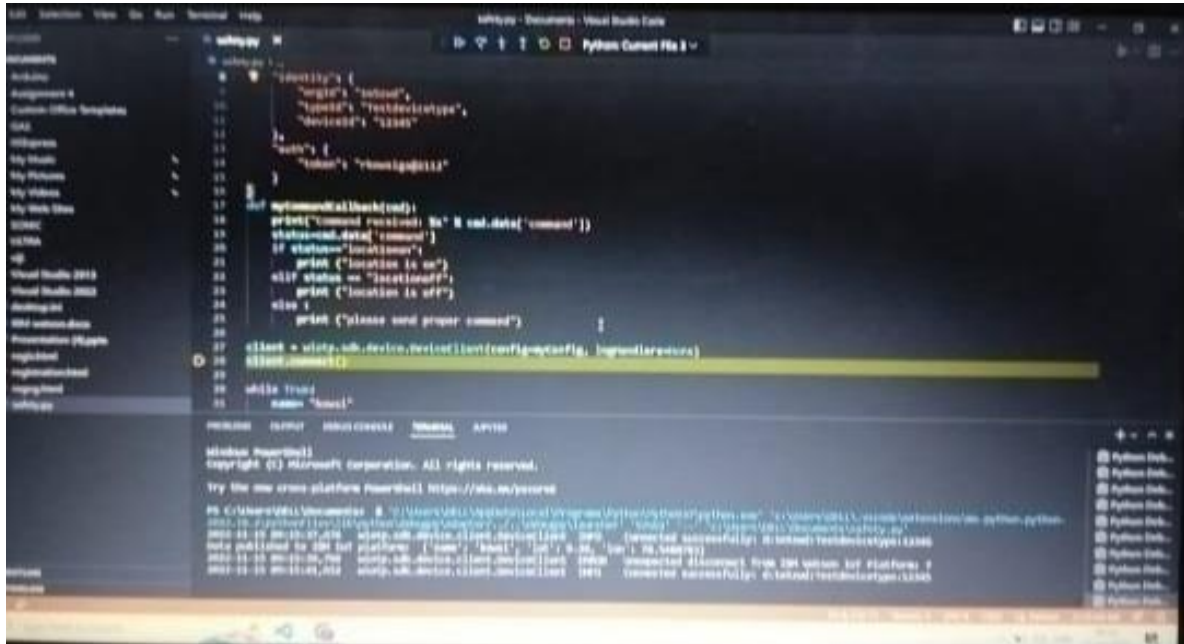


Connecting with IBM IOT node through the API key





Transferring values from Python Code:



Node-Red

