

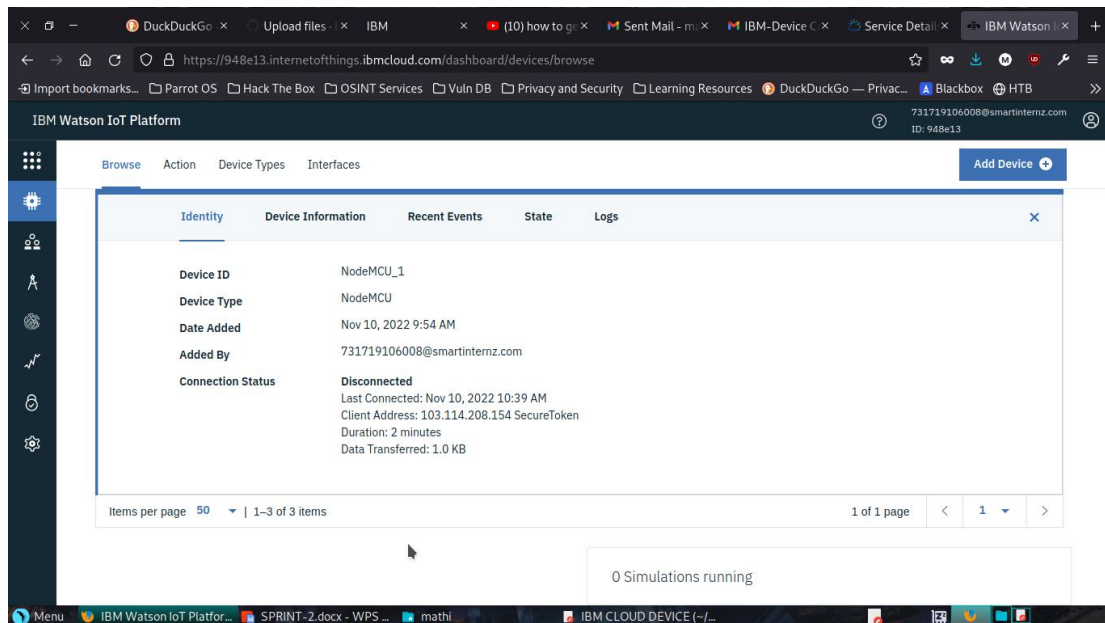
## SPRINT-3

### IoT Device – Watson communication

The data from IoT device should reach IBM Cloud

(The data stored in IBM Cloud should be properly integrated with Cloudant DB)

## NODE RED-CLOUDANTDB COMMUNICATION:



Node-RED interface showing the configuration of an IBM IoT node. The node is named "ibmiot in" and is configured with the following properties:

- Authentication: API Key
- API Key: child tracker
- Input Type: Device Event
- Device Type: All or childSafety
- Device Id: All or 731736810
- Event: All or event type e.g. status
- Format: All or json
- QoS: 0
- Name: IBM IoT

The node is currently enabled. The interface also shows a list of flows on the right, including "Child Tracker", "Subflows", and "Global Configuration Nodes".

```
File Edit Selection View Go Run Terminal Help
child safety py script.py
home > mathi > Desktop > child safety py script.py > longitude
1 import json
2 import wiotp.sdk.device
3 import time
4
5 myConfig = {
6     "identity": {
7         "orgId": "948e13",
8         "typeId": "childsafety",
9         "deviceId": "731736810"
10    },
11    "auth": {
12        "token": "12345678"
13    }
14 }
15
16 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
17 client.connect()
18
19 while True:
20     name= "Smartbridge"
21     #in area location
22
23     #latitude=
24     #longitude=
25
26     #out area location
27
28     latitude=11.165198
29     longitude=77.6037642
30
31     myData={ 'name': name, 'lat':latitude, 'lon':longitude}
32     client.publishEvent(eventId="status",msgFormat="json",data=myData,qos=0, onPublish=None)
33     print('Data published to IoT platform:',myData)
```

Node-RED: node-red-ry x Node-RED: node-red-jx x +

https://node-red-joxtu-2022-11-08.au-syd.mybluemix.net/red/#flow/878e725034865c81

Import bookmarks... Parrot OS Hack The Box OSINT Services Vuln DB Privacy and Security Learning Resources DuckDuckGo — Privac... Blackbox HTB

Node-RED Deploy

filter nodes

common

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

function

- function

Child Tracker

IBM IoT connected

function

msg.payload

function

worldmap

geofence

function

filter

switch

function

http request

show dialog

msg.payload

info

Search flows

Flows

- Child Tracker
- Subflows
- Global Configuration Nodes

IBM IoT

Node "df1ad46eb12201fe"

Type ibmiot in

show more

Menu IBM Watson IoT Platfor... Node-RED: node-red-j...