Sprint – 2

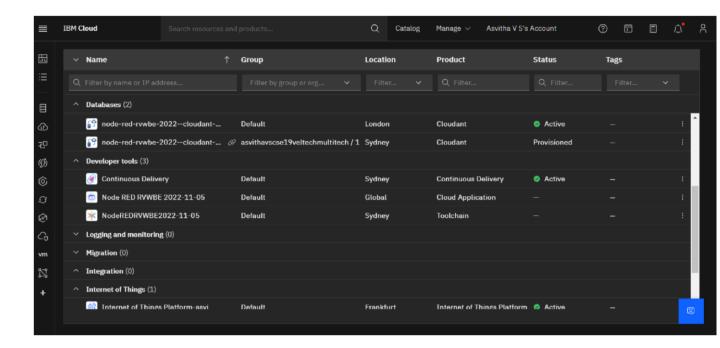| Date	10- Nov-2022
Team ID	**PNT2022TMID16704**
Project Name	**Project - IoT Based Safety Gadget for Child Safety Monitoring & Notification**
Maximum Marks	**8 Marks**

USN- 4 : Integrating the IBM Watson IoT Platform and Cloudant DB with the node red.
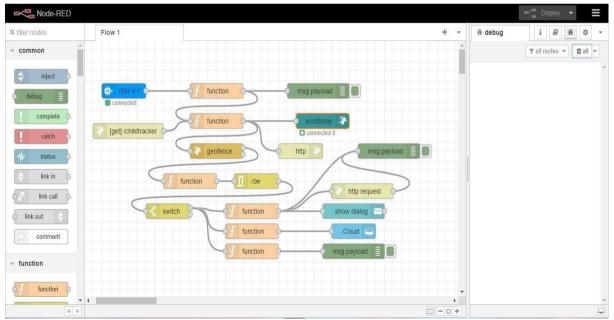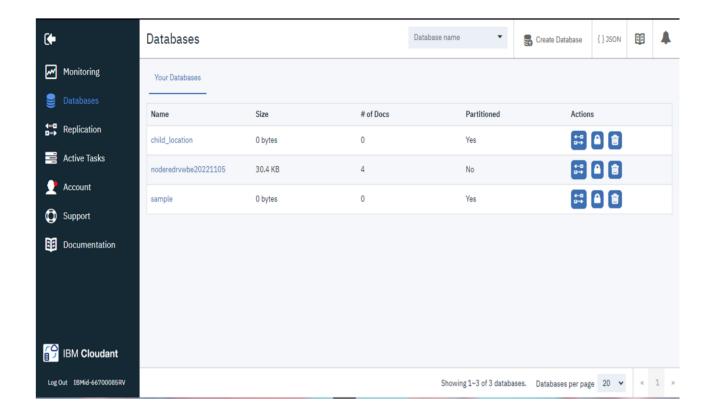
- Launching IBM IoT Watson

- Implementing the node-red in IBM cloud.

- Designing the node-red work flow for our project.

- Launch the cloudant DB and create a database to store the location data.

- For our project we are creating a database called child_loaction.

USN – 5 : Developing the Python code for connecting with IBM Watson IoT platform.

```
1    import time
2    import wiotp.sdk.application
3    print("Hello")
4    myConfig = {
5        "identity" : {
6            "orgId" : "fjde2i",
7            "typeId": "Tracker",
8            "deviceId":"28",
9        },
10       "auth": {
11           "token": "123456789"
12       }
13   }
14   client = wiotp.sdk.device.DeviceClient(config = myConfig, logHandlers = None)
15   client.connect()
16
17   while True:
18       name = "Child"
19       #in area location
20
21       latitude = 17.4219272
22       longitude = 78.5488783
23
24
25
26       #out area location
27
28       #latitude = 17.4219272
29       #longitude = 78.5488783
30       myData = {'name':name, 'lat':latitude, 'lon': longitude}
31       client.publishEvent(eventId = "status", msgFormat = "json", data = myData, qos = 0, onPublish =None)
32       print("Data published to IBM IoT Platform: ", myData)
33       time.sleep(5)
34
35   client.disconnect()
```

- Connected successfully with IBM IoT Watson.

```
Run:    child ×
    C:\Users\dell\AppData\Local\Programs\Python\Python311\python.exe C:/Users/dell/AppData/Local/Programs/Python/child.py
    Data published to IBM IoT Platform:  {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
    2022-11-08 20:56:53,786   wiotp.sdk.device.client.DeviceClient  INFO    Connected successfully: d:fjde2i:Tracker:28
    Data published to IBM IoT Platform:  {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
    Data published to IBM IoT Platform:  {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
    Data published to IBM IoT Platform:  {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
    Data published to IBM IoT Platform:  {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
```

- IBM IoT Watson platform receiving the details of the child's location.

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ID: fjde2i

Browse   Action   Device Types   Interfaces

Add Device

28	Disconnected	Tracker	Device	Nov 6, 2022 11:54 AM

Identity   Device Information   **Recent Events**   State   Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"name":"Child","lat":17.4219272,"lon":78.5488...	json	a few seconds ago
status	{"name":"Child","lat":17.4219272,"lon":78.5488...	json	a few seconds ago
status	{"name":"Child","lat":17.4219272,"lon":78.5488...	json	a few seconds ago
status	{"name":"Child","lat":17.4219272,"lon":78.5488...	json	a few seconds ago
status	{"name":"Child","lat":17.4219272,"lon":78.5488...	json	a few seconds ago