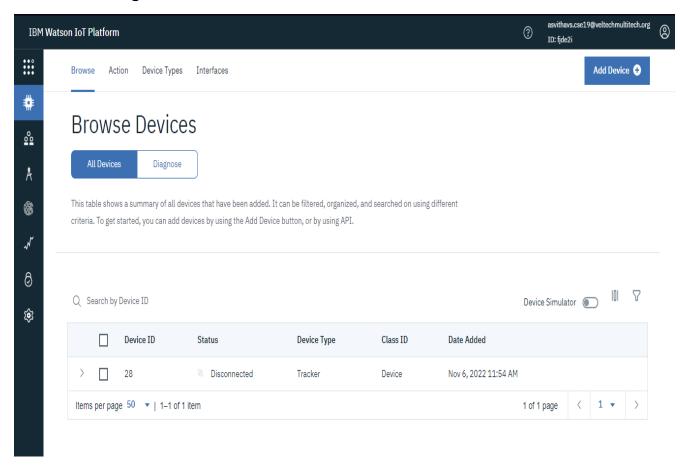
Project Development Phase

Sprint – 2

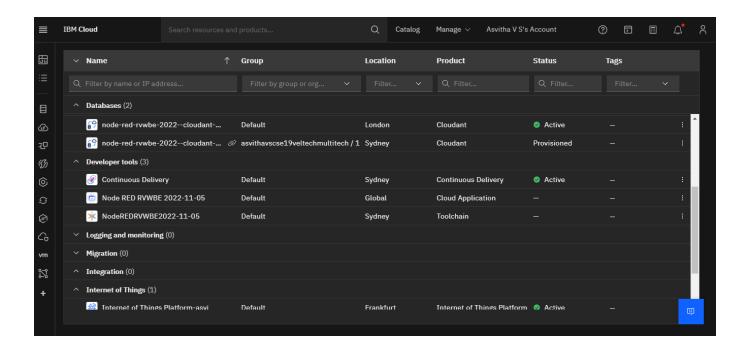
Date	5 Nov 2022
Team ID	PNT2022TMID22281
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring & Notification
Maximum Marks	8 Marks

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

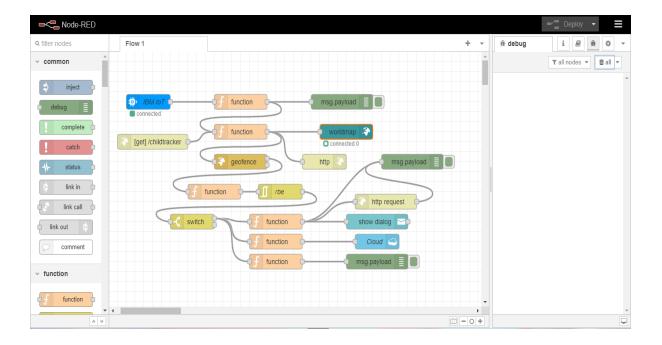
Launching IBM IoT Watson



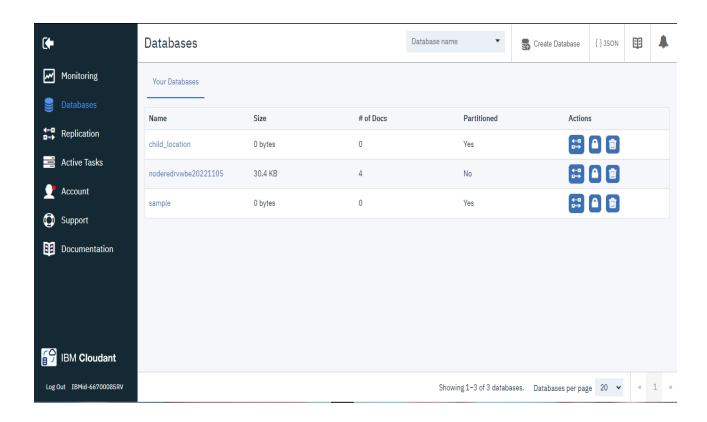
• Implementing the node-red in IBM cloud.



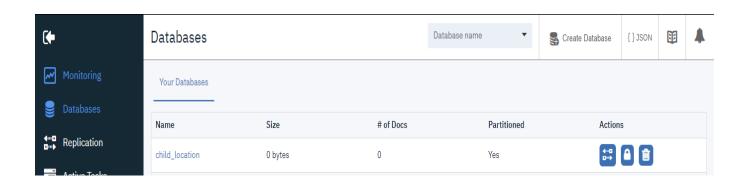
• Designing the node-red work flow for our project.



 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.

```
import time
      import wiotp.sdk.application
      print("Hello")
    myConfig = {
          "identity" : {
            "orgId": "fjde2i",
"typeId": "Tracker",
             "deviceId":"28",
        },
"auth": {
             "token": "123456789"
13
14
     client = wiotp.sdk.device.DeviceClient(config = myConfig, logHandlers = None)
     client.connect()
16
17  while True:
        name = "Child"
18
19
         #in area location
20
         latitude = 17.4219272
21
        longitude = 78.5488783
22
23
24
25
        #out area location
26
        #latitude = 17.4219272
         #longitude = 78.5488783
        myData = {'name':name, 'lat':latitude, 'lon': longitude}
         client.publishEvent(eventId = "status", msgFormat = "json", data = myData, qos = 0, onPublish =None)
          print("Data published to IBM IoT Platform: ", myData)
    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.

