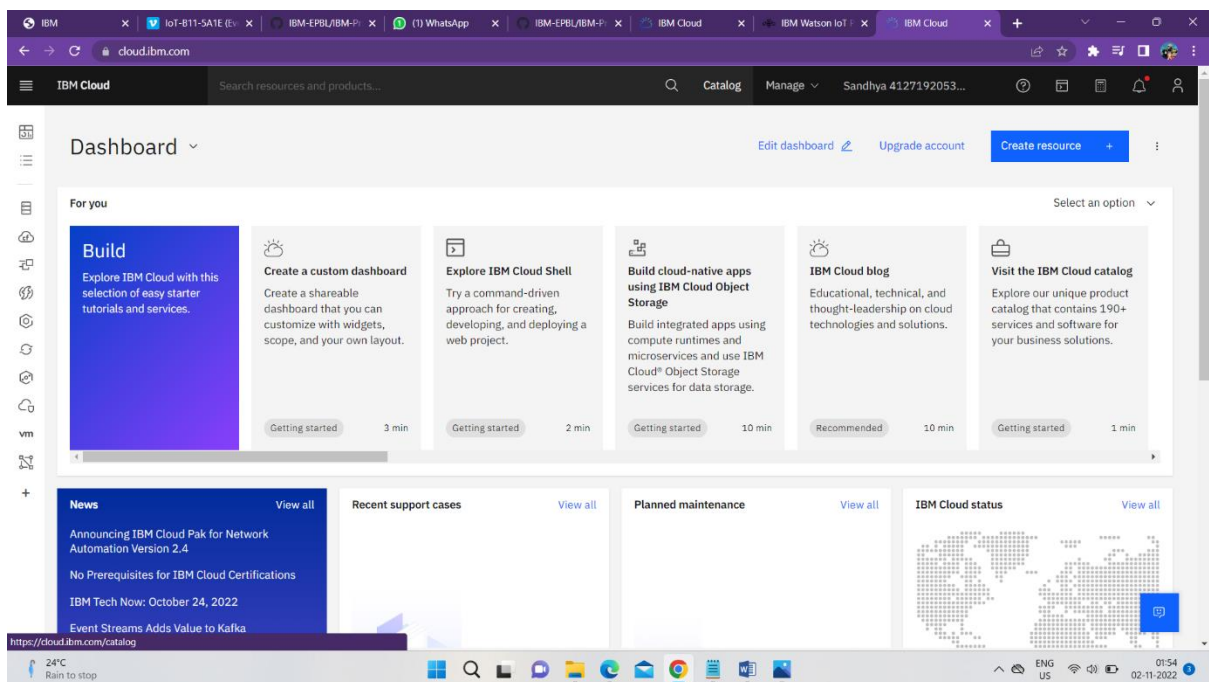


Project Development Phase

SPRINT-2

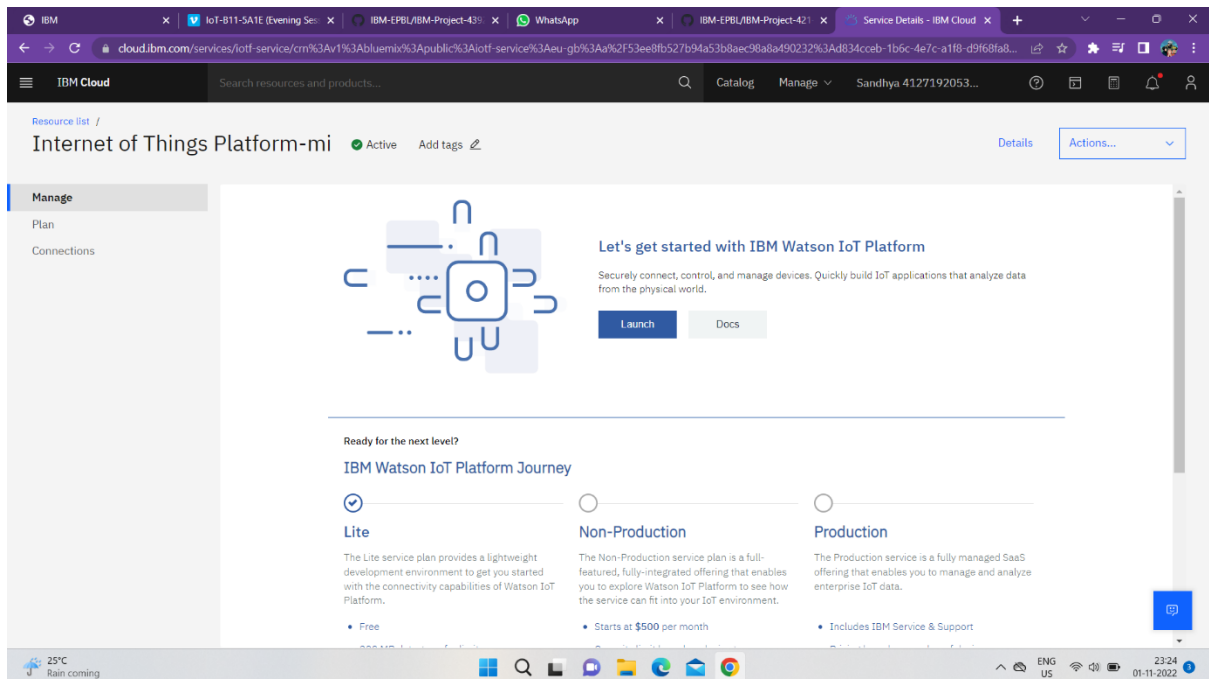
Date	17 November 2022
Team ID	PNT2022TMID38406
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

1. DASHBOARD

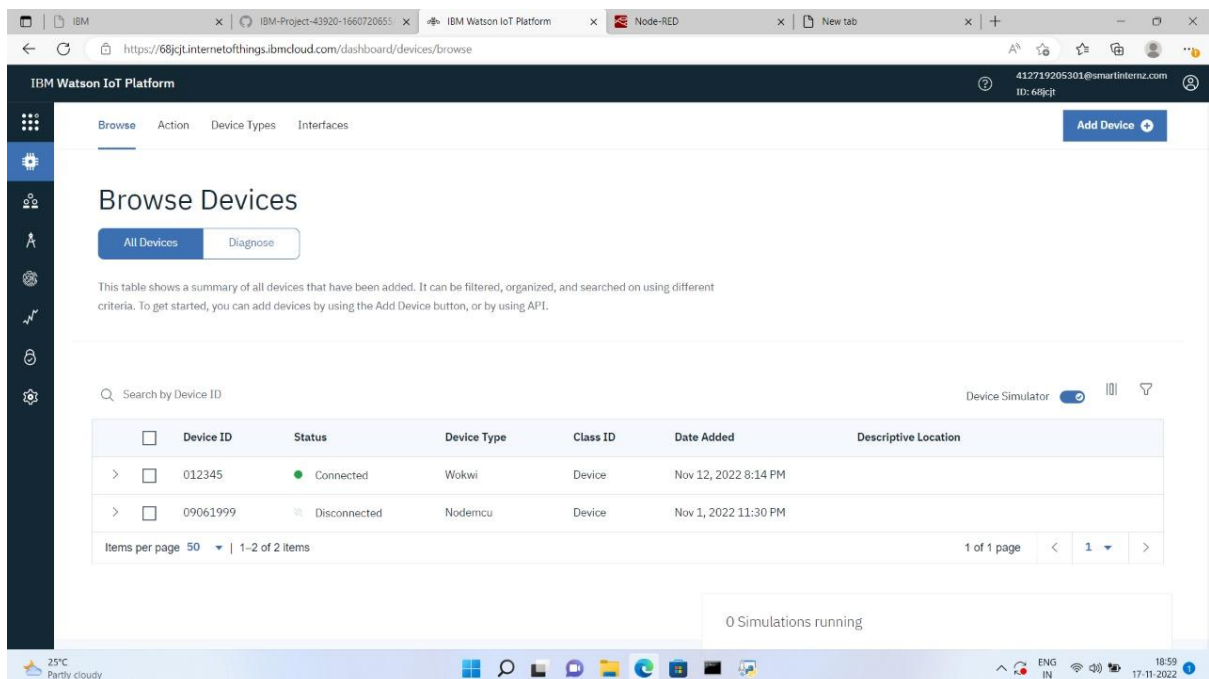


The screenshot displays the IBM Cloud Dashboard interface. At the top, there's a navigation bar with the IBM Cloud logo, a search bar, and links for Catalog, Manage, and a user profile. The main content area is titled 'Dashboard' and features a 'For you' section with several cards: 'Build' (Explore IBM Cloud with this selection of easy starter tutorials and services), 'Create a custom dashboard' (Create a shareable dashboard that you can customize with widgets, scope, and your own layout), 'Explore IBM Cloud Shell' (Try a command-driven approach for creating, developing, and deploying a web project), 'Build cloud-native apps using IBM Cloud Object Storage' (Build integrated apps using compute runtimes and microservices and use IBM Cloud® Object Storage services for data storage), 'IBM Cloud blog' (Educational, technical, and thought-leadership on cloud technologies and solutions), and 'Visit the IBM Cloud catalog' (Explore our unique product catalog that contains 190+ services and software for your business solutions). Below this, there's a 'News' section with a card about 'Announcing IBM Cloud Pak for Network Automation Version 2.4', a 'Recent support cases' section, a 'Planned maintenance' section, and an 'IBM Cloud status' section with a world map. The bottom of the screen shows a Windows taskbar with various application icons and system information like temperature (24°C) and time (01:54, 02-11-2022).

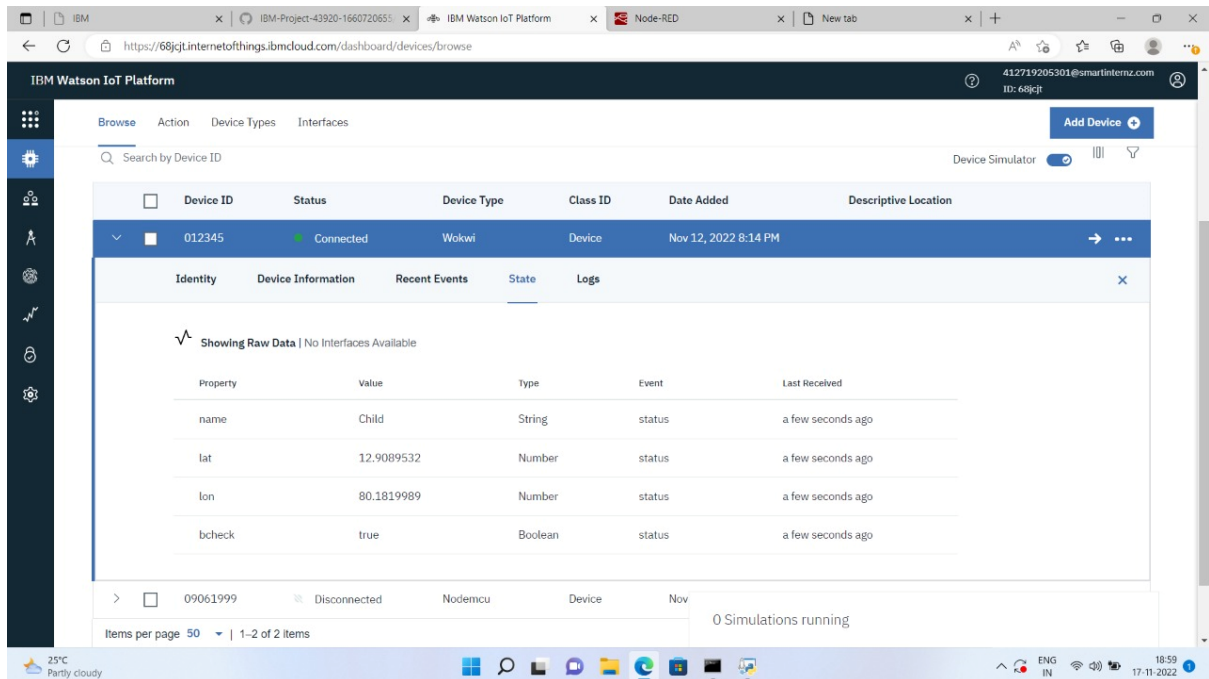
2. IBM WATSON IOT PLATFORM



3. BROWSE DEVICES AND CONNECT



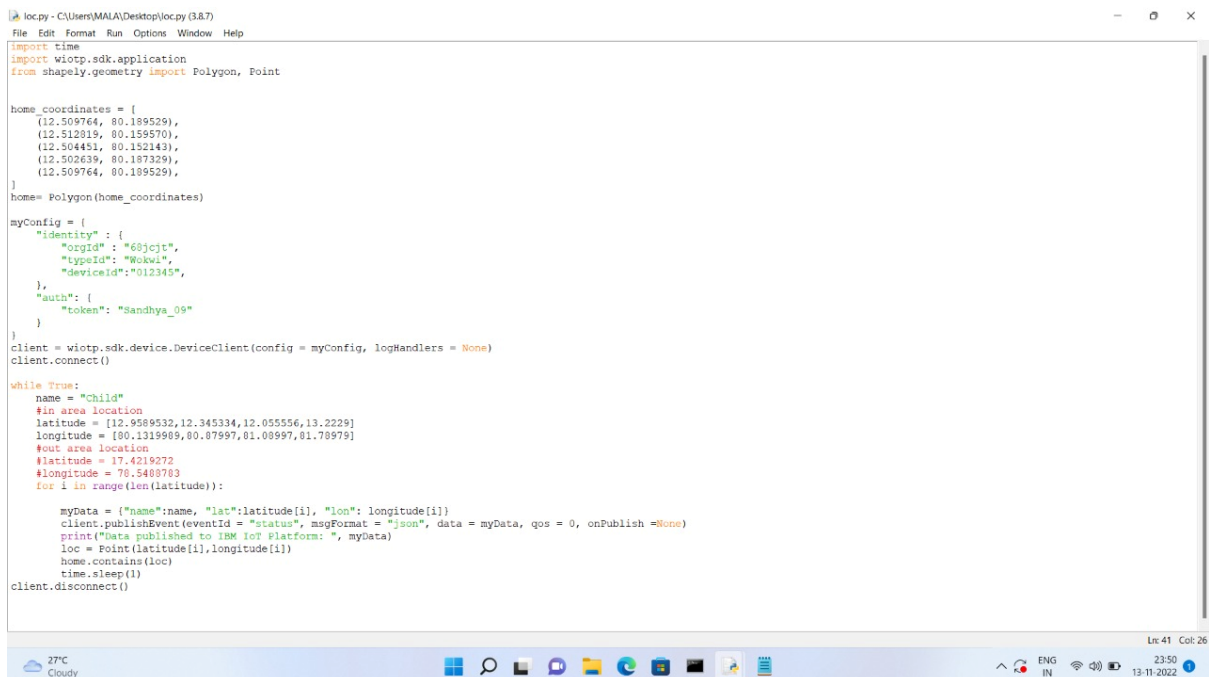
4. SHOWING RAW DATA OF A DEVICE



The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. The main content area displays a table of devices. The first device, ID 012345, is 'Connected' and of type 'Wokwi'. Below the table, a 'Showing Raw Data' section is visible, showing a table of properties and values.

Property	Value	Type	Event	Last Received
name	Child	String	status	a few seconds ago
lat	12.9089532	Number	status	a few seconds ago
lon	80.1819989	Number	status	a few seconds ago
bcheck	true	Boolean	status	a few seconds ago

5. CODE FOR TRACKING LOCATION



The screenshot shows a Python script in a code editor. The script uses the 'wiotp' library to connect to the IBM Watson IoT Platform and track the location of a device. It defines a 'home' polygon and a 'myConfig' object. The script then connects to the platform and enters a loop that updates the device's location and publishes status events.

```
loc.py - C:\Users\MAIA\Desktop\loc.py (3.8.7)
File Edit Format Run Options Window Help

import time
import wiotp.sdk.application
from shapely.geometry import Polygon, Point

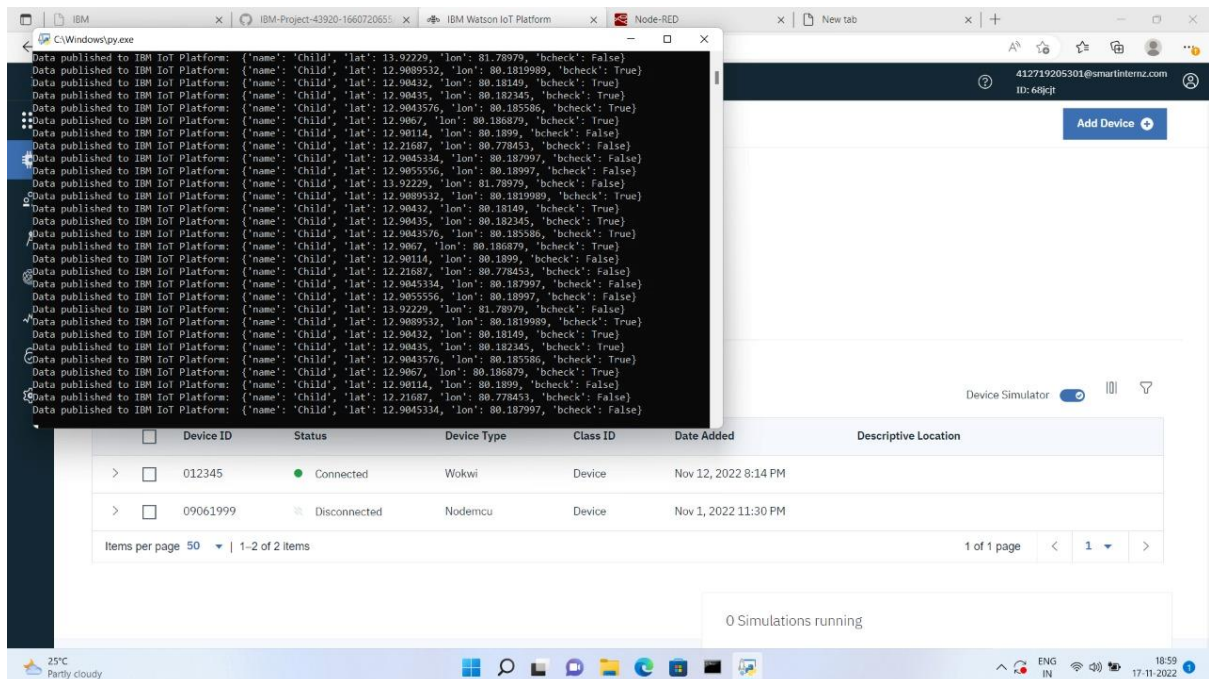
home_coordinates = [
    (12.509764, 80.189529),
    (12.512819, 80.159570),
    (12.504451, 80.152143),
    (12.502639, 80.187329),
    (12.509764, 80.189529),
]
home = Polygon(home_coordinates)

myConfig = {
    "identity": {
        "orgId": "68jcjt",
        "typeId": "Wokwi",
        "deviceId": "012345",
    },
    "auth": {
        "token": "Sandhya_09"
    }
}

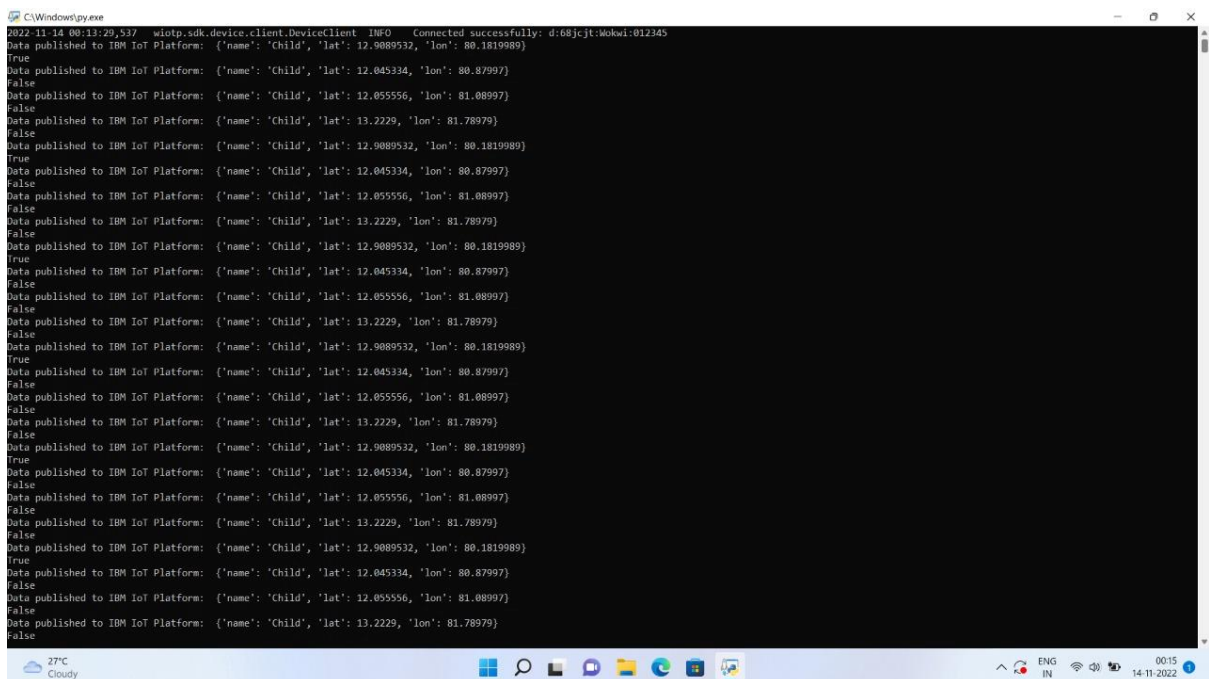
client = wiotp.sdk.device.DeviceClient(config = myConfig, logHandlers = None)
client.connect()

while True:
    name = "Child"
    #in area location
    latitude = [12.9589532, 12.345334, 12.055556, 13.2229]
    longitude = [80.1319989, 80.07997, 81.08997, 81.78979]
    #out area location
    #latitude = 17.4219272
    #longitude = 78.5488783
    for i in range(len(latitude)):
        myData = {"name": name, "lat": latitude[i], "lon": longitude[i]}
        client.publishEvent(eventId = "status", msgFormat = "json", data = myData, qos = 0, onPublish = None)
        print("Data published to IBM IoT Platform: ", myData)
        loc = Point(latitude[i], longitude[i])
        home.contains(loc)
        time.sleep(1)
    client.disconnect()
```

6. OUTPUT FOR TRACKING LOCATION CODE



7. LOCATION OF A CHILD



8. DATABASES




IBM Project IBM Watson PROJ board Cloudant (17) WhatsApp IoT Based Sa Sprint-1 (1) Node-RED

https://fb56fef8-4987-4703-96be-3358e18a3fa6-bluemix.cloudant.com/dashboard.html#/all_dbs

Databases

Database name Create Database {} JSON

Your Databases

Name	Size	# of Docs	Partitioned	Actions
ibm-batch11	443 bytes	7	No	  

Showing 1-1 of 1 databases. Databases per page 20 1

26°C Partly cloudy ENG IN 21:47 17-11-2022