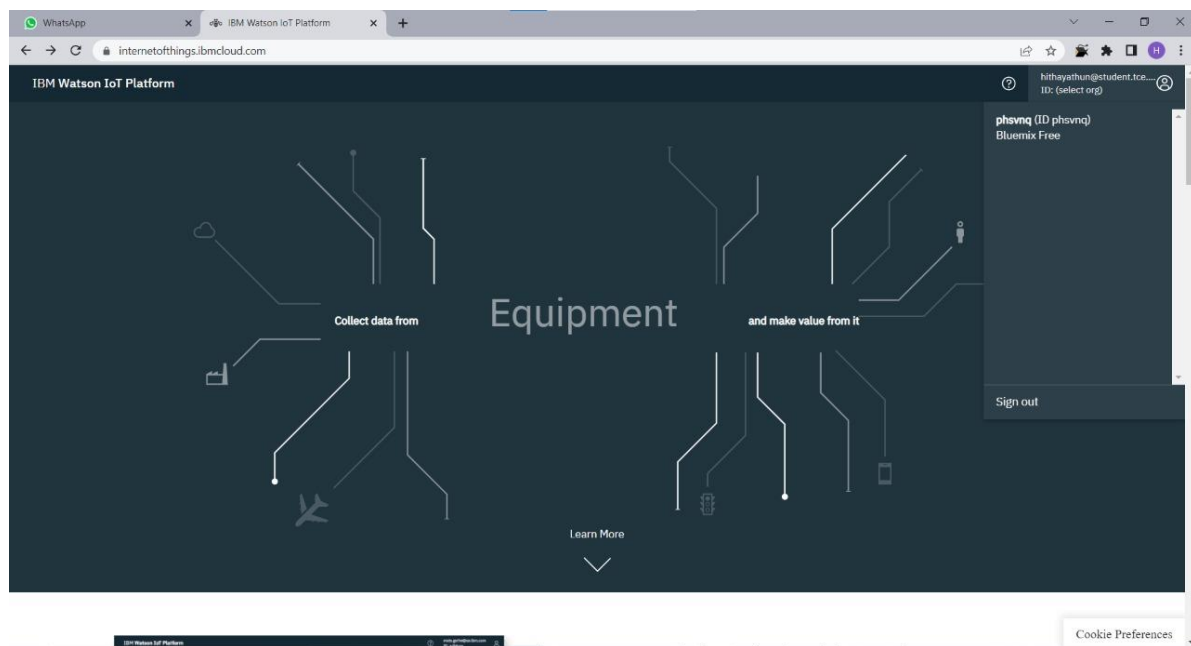


Project Development

Date	31 Oct 2022
Team ID	PNT2022TMID21372
Project Name	Iot Based Safety For Child Safety Monitoring & Notification
Sprint	Sprint 2

Creating and connecting IBM cloud for Project ad Python Code

Creating IBM Cloud Service and Creating the Device :



The screenshot displays the IBM Watson IoT Platform interface. At the top, there's a navigation bar with the IBM logo and a user profile for 'hithayathun@student.tce.edu' with ID 'phsvnq'. Below this, a sidebar contains icons for various platform features. The main content area is titled 'IBM Watson IoT Platform' and shows a 'Browse' tab selected. A table lists devices, with the first device (ID 1234) highlighted. Below the table, a detailed view for device 1234 is shown, including its identity, device information, recent events, state, and logs. The device is connected, and its connection status is detailed. At the bottom, a status bar indicates '0 Simulations running'.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234	Connected	CS1	Device	Nov 17, 2022 9:22 PM	

Device Details for ID 1234:

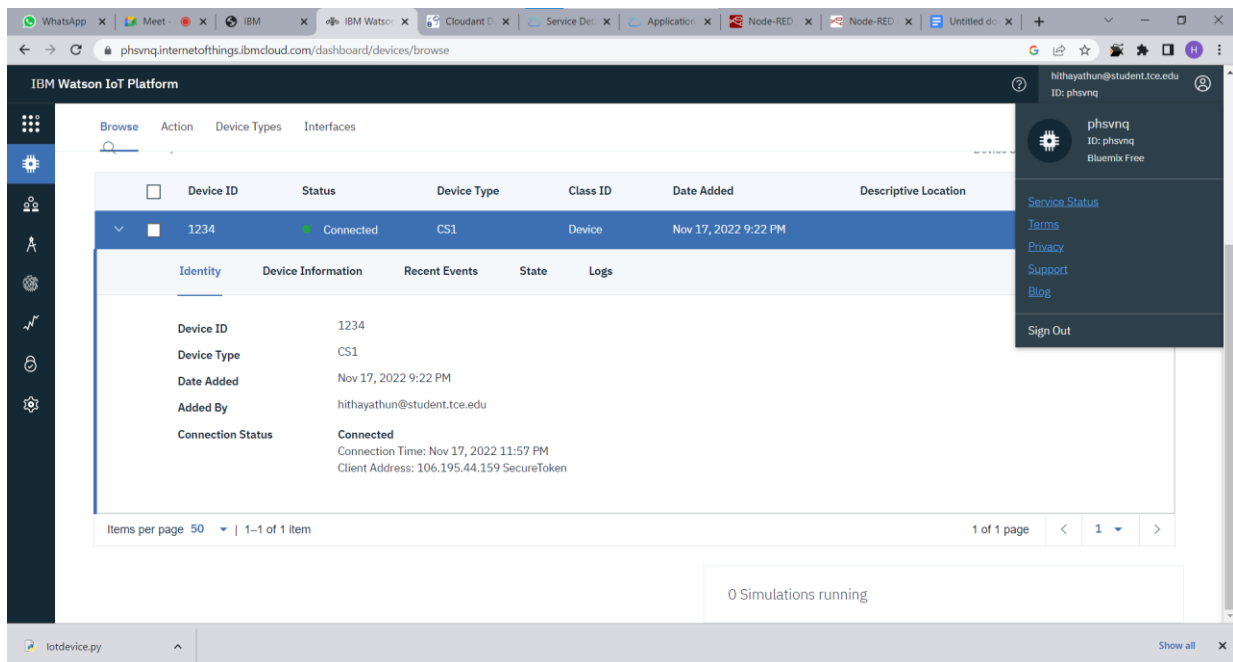
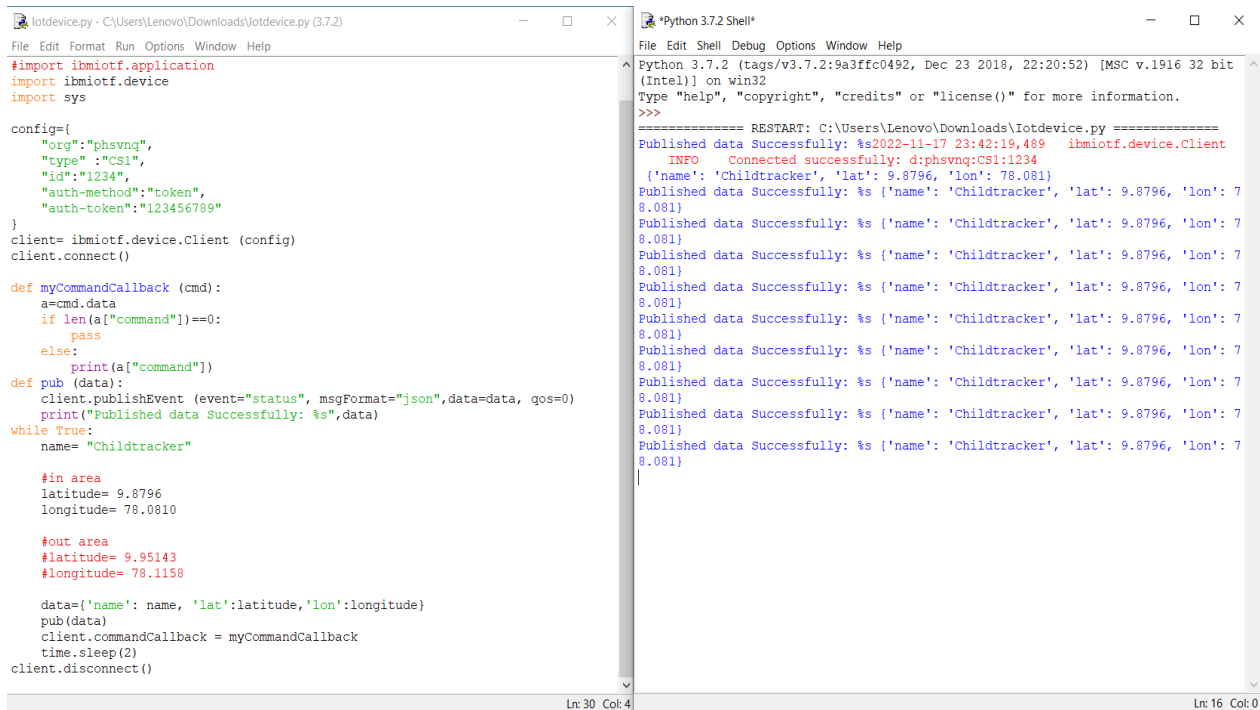
- Identity:** Device ID: 1234
- Device Information:** Device Type: CS1
- Recent Events:** Date Added: Nov 17, 2022 9:22 PM
- State:** Added By: hithayathun@student.tce.edu
- Logs:** Connection Status: **Connected**
Connection Time: Nov 17, 2022 11:57 PM
Client Address: 106.195.44.159 SecureToken

Items per page: 50 | 1-1 of 1 item

1 of 1 page

0 Simulations running

In-Area Location:



Out-Area Location :

The image shows a Python script running in a shell window and its corresponding IBM Watson IoT Platform dashboard.

Python Script (lotdevice.py):

```
#!/usr/bin/env python
# Import ibmiotf.application
import ibmiotf.device
import sys

config={
    "org":"phsvnq",
    "type":"CS1",
    "id":"1234",
    "auth-method":"token",
    "auth-token":"123456789"
}

client= ibmiotf.device.Client (config)
client.connect ()

def myCommandCallback (cmd):
    a=cmd.data
    if len (a["command"])=0:
        pass
    else:
        print(a["command"])

def pub (data):
    client.publishEvent (event="status", msgFormat="json",data=data, qos=0)
    print("Published data Successfully: %s",data)

while True:
    name= "Childtracker"

    #in area
    #latitude= 9.8796
    #longitude= 78.0810

    #out area
    latitude= 9.95143
    longitude= 78.1158

    data={'name': name, 'lat':latitude,'lon':longitude}
    pub(data)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

Python 3.7.2 Shell Output:

```
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Lenovo\Downloads\lotdevice.py =====
Published data Successfully: %s2022-11-17 23:39:46,040 ibmiotf.device.Client
INFO Connected successfully: d:phsvnq:CS1:1234
{'name': 'Childtracker', 'lat': 9.95143, 'lon': 78.1158}
Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon': 78.1158}
Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon': 78.1158}
Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon': 78.1158}
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Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon': 78.1158}
```

IBM Watson IoT Platform Dashboard:

The dashboard shows the device details for the device ID 1234, which is connected. The device type is CS1, and the class ID is Device. The date added is Nov 17, 2022 9:22 PM. The user hithayathun@student.tce.edu is associated with the device.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234	Connected	CS1	Device	Nov 17, 2022 9:22 PM	

Device Information:

Identity	Device Information	Recent Events	State	Logs
Device ID	1234			
Device Type	CS1			
Date Added	Nov 17, 2022 9:22 PM			
Added By	hithayathun@student.tce.edu			
Connection Status	Connected			
	Connection Time: Nov 17, 2022 11:57 PM			
	Client Address: 106.195.44.159 SecureToken			

Items per page 50 | 1-1 of 1 item

0 Simulations running