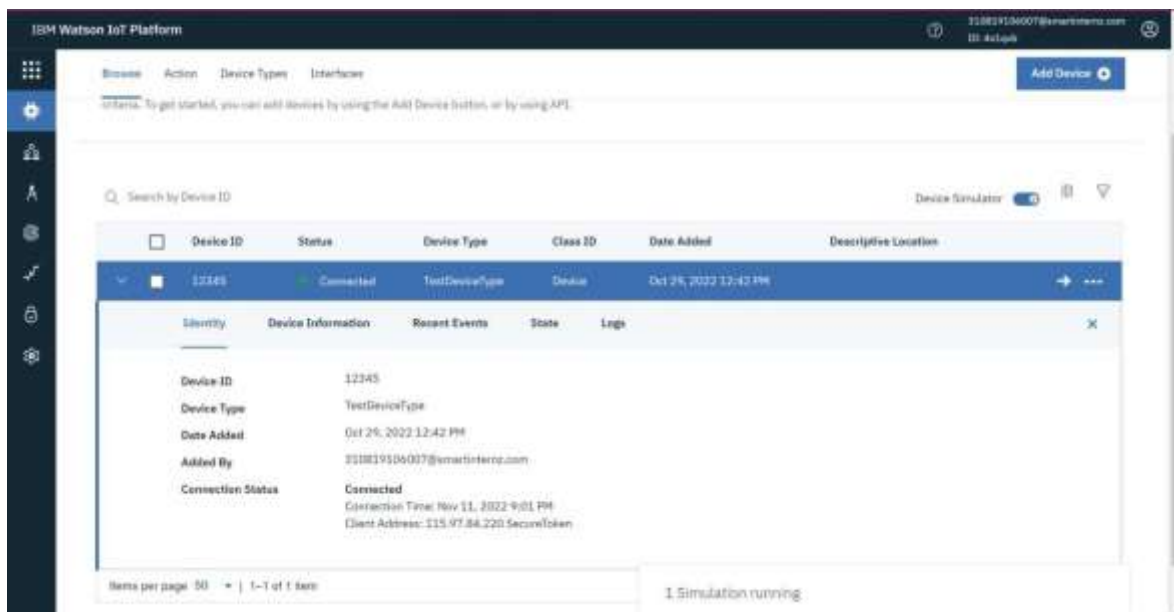


Project Development –Delivery plan sprint-2

Date :	13 th Nov 2022
Project Topic :	IoT Based Safety Gadget for Child Safety Monitoring & Notification
Team ID :	PNT2022TMID40778

Creating and Connecting IBM cloud for Project and Python

CodeCreating IBM Cloud Service and creating the device:



Creating Python Code:

```
import json
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "4o1qxb",
        "typeId": "TestDeviceType",
        "deviceId": "12345"
    },
    "auth": {
        "token": "pnhXvzN-sWMKv&hxyi"
    }
}

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

while True:
    name= "Smartbridge"
    #in area location

    latitude= 17.4225176

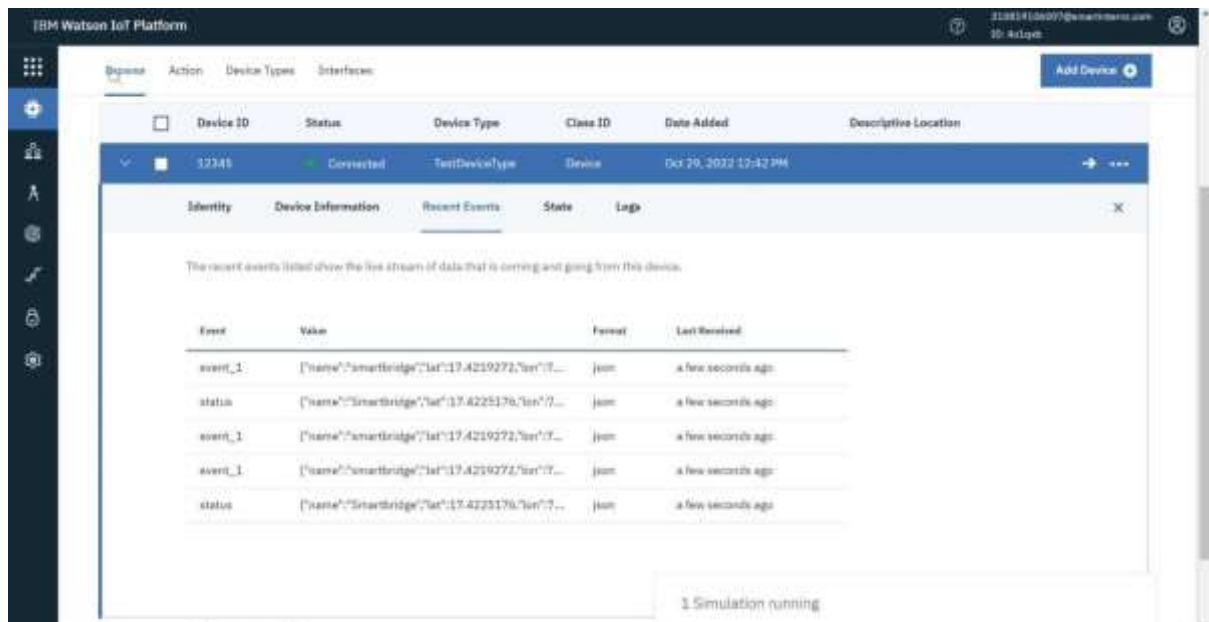
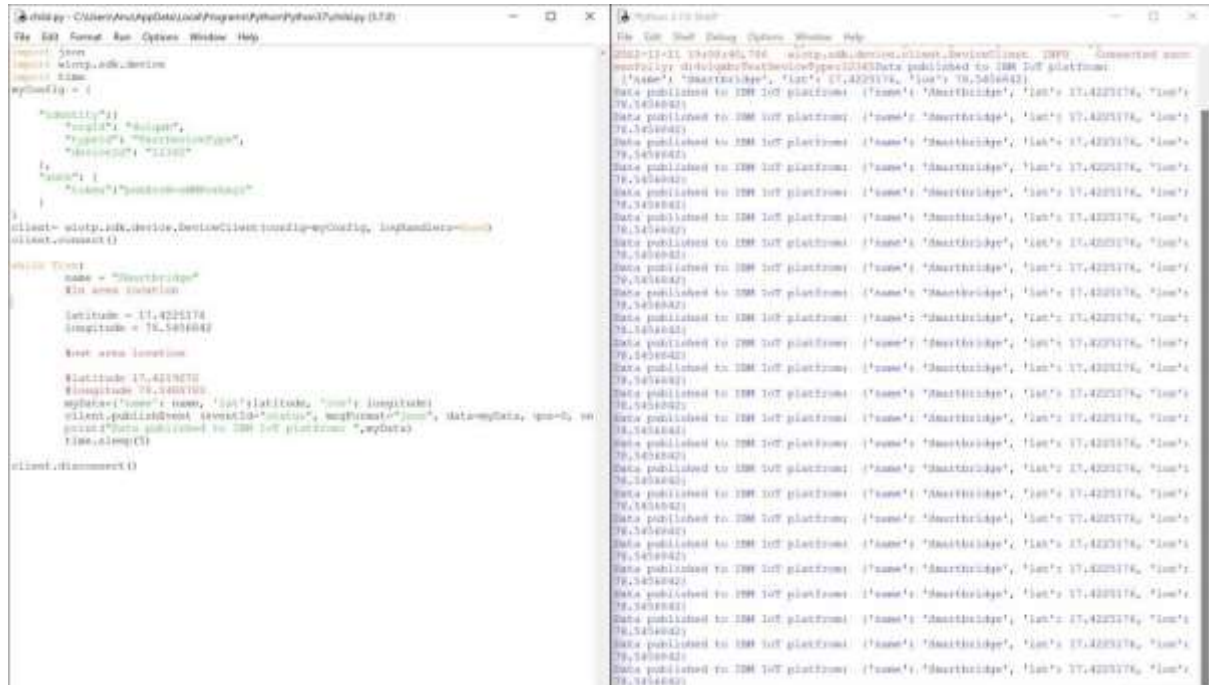
    longitude= 78.5458842

    #out area location

    #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)
    time.sleep(5)
    client.disconnect()
```

Connecting IBM Watson and python Code:

In-Area Location:



Out-Area Location:

```

File Edit Format Run Options Window Help
Python 370 Shell
client = mqtt.Client(device.DeviceClass,username=userId,password=pass)
client.connect()

def on_connect(client, userdata, result_code):
    """Callback when connected to the MQTT broker"""
    client.subscribe(topic)

def on_message(client, userdata, msg):
    """Callback when a message is received"""
    print(msg.payload)

client.on_connect = on_connect
client.on_message = on_message
client.subscribe(topic)
client.loop_start()

while True:
    name = "Smartbridge"
    #in area location

    latitude = 17.421972
    longitude = 79.544979
    #out area location

    latitude = 17.421972
    longitude = 79.544979
    myData={"name": name, "lat":latitude, "lon": longitude}
    client.publish(topic, myData, qos=1, retain=False)
    print("Data published to IBM IoT platform", myData)
    time.sleep(5)

client.disconnect()
  
```

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":"Smartbridge","lat":17.421972,"lon":7...	json	a few seconds ago
event_1	["name":"Smartbridge","lat":17.421972,"lon":7...	json	a few seconds ago
event_1	["name":"Smartbridge","lat":17.421972,"lon":7...	json	a few seconds ago
status	["name":"Smartbridge","lat":17.421972,"lon":7...	json	a few seconds ago
event_1	["name":"Smartbridge","lat":17.421972,"lon":7...	json	a few seconds ago

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1 Simulation running