

Project Development –Delivery plan sprint-2

IoT Based Safety Gadget for Child Safety Monitoring & Notification

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Creating and Connecting IBM cloud for Project and Python Code

Creating IBM Cloud Service and creating the device:

The top screenshot shows the IBM Watson IoT Platform landing page. The header includes the IBM logo and a 'Sign in' button. The main content area features a large 'Cars' title and a diagram illustrating the process of collecting data from cars and making value from it. The bottom screenshot shows the 'Add Device' process in the IBM Watson IoT Platform. The interface includes a sidebar with navigation icons and a main content area with a table of device information.

Device ID	Status	Device Type	Class ID	Date Added
12345	Connected	MyDeviceType	Device	14 Nov 2022 11:37

Below the table, there is a section for 'Device Information' with the following details:

- Device ID: 12345
- Device Type: MyDeviceType
- Date Added: 14 Nov 2022 11:37
- Added By: 310819106036@smartinternz.com
- Connection Status: Connected
- Connection Time: 14 Nov 2022 17:15
- Client Address: 157.51.38.16 SecureToken

The bottom screenshot also shows a '1 Simulation running' status at the bottom of the interface.

Creating Python Code:

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

myConfig = {
    "identity":{
        "orgId": "jgry6x",
        "typeId":"MyDeviceType",
        "deviceId": "12345"
    },
    "auth": {
        "token":"*eB+Vs5Pb3m6f79Vnn"
    }
}

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

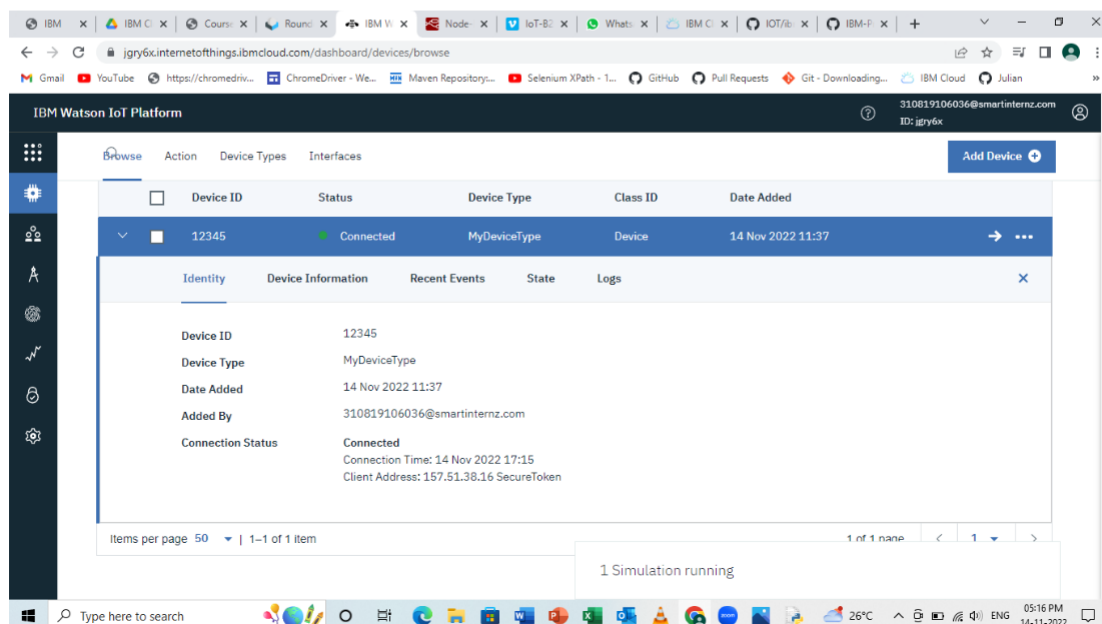
    #latitude= 17.4219272
    #longitude= 78.5488783
    myData={'name': name,'lat':latitude, 'lon' :longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData,
qos=0, onPublish=None)
    print("Data Published to IBM IoT platfrom: ", myData)
    time.sleep(5)

client.disconnect()
```

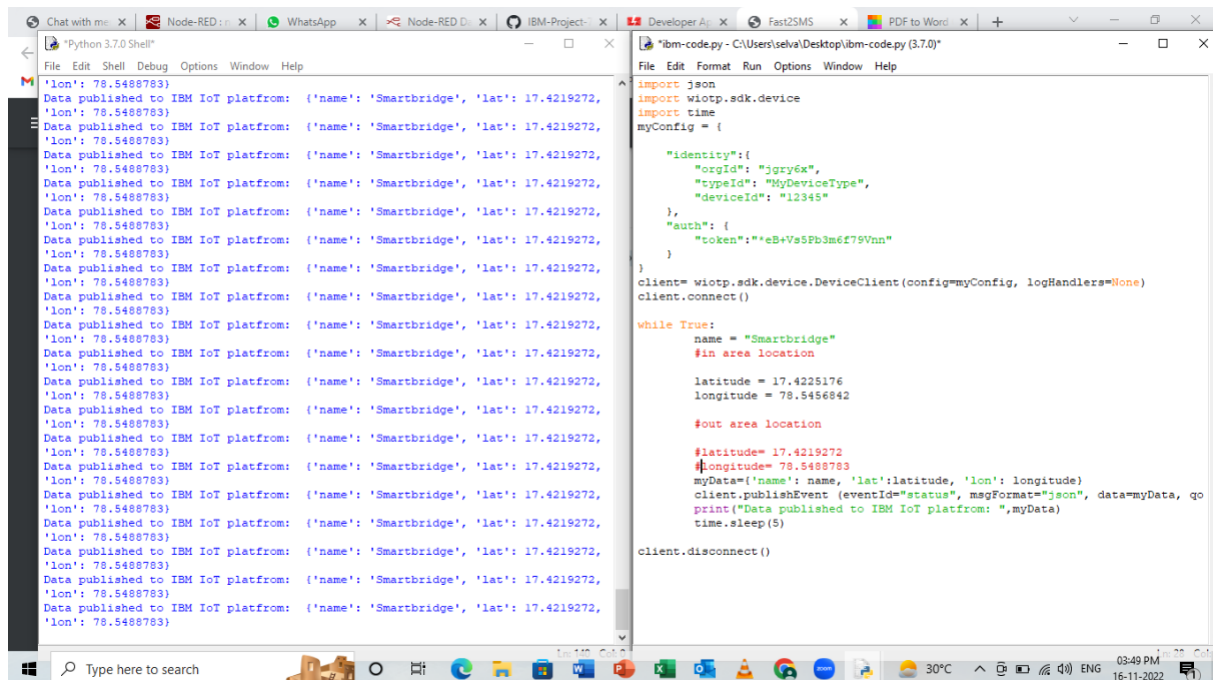
In-Area Location:

```
"Python 3.7.0 Shell"  
File Edit Shell Debug Options Window Help  
  
'lon': 78.5488783)  
Data published to IBM IoT platform: ('name': 'Smartbridge', 'lat': 17.4219272,  
'lon': 78.5488783)  
Data published to IBM IoT platform: ('name': 'Smartbridge', 'lat': 17.4219272,  
'lon': 78.5488783)  
Data published to IBM IoT platform: ('name': 'Smartbridge', 'lat': 17.4219272,  
'lon': 78.5488783)  
Data published to IBM IoT platform: ('name': 'Smartbridge', 'lat': 17.4219272,  
'lon': 78.5488783)  
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'lon': 78.5488783)  
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'lon': 78.5488783)  
Data published to IBM IoT platform: ('name': 'Smartbridge', 'lat': 17.4219272,  
'lon': 78.5488783)
```

```
ibm-code.py - C:\Users\selva\Desktop\ibm-code.py (3.7.0)  
File Edit Format Run Options Window Help  
  
import json  
import Wiottp.sdk.device  
import time  
myConfig = {  
  
    "identity":{  
        "orgId": "jgry6x",  
        "deviceId": "MyDeviceType",  
        "deviceCid":"I2345"  
    },  
    "auth": {  
        "token": "#eB+VeSfPbmEf79VnH"  
    }  
}  
client= wiottp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)  
client.connect()  
  
while True:  
    name = "Smartbridge"  
    #in area location  
  
    #latitude = 17.4225176  
    #longitude = 78.5456842  
  
    #out area location  
  
    latitude= 17.4219272  
    longitude= 78.5488783  
    myData={'name': name, 'lat':latitude, 'lon': longitude}  
    client.publishEvent(eventID='status', msgFormat='json', data=myData, qo  
print("Data published to IBM IoT platform:" ,myData)  
time.sleep(5)  
  
client.disconnect()
```



Out-Area Location:



The image shows a Windows desktop with two open applications. The left application is a Python 3.7.0 Shell, displaying a series of log messages: "Data published to IBM IoT platform: ('name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5488783)". The right application is a Python script editor showing the following code:

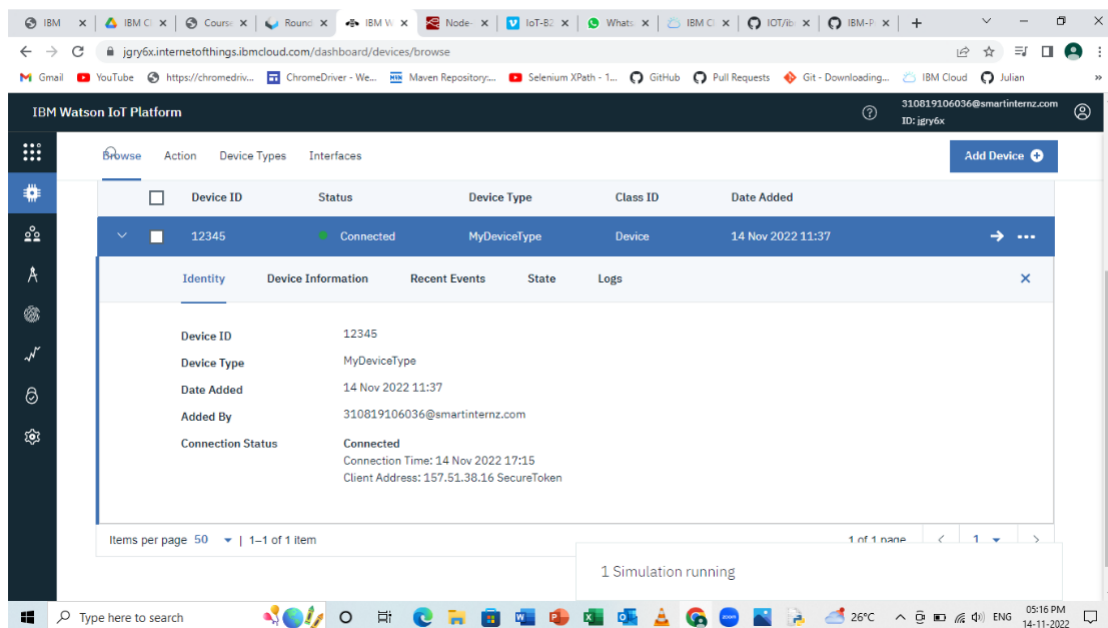
```
import json
import wiotp.sdk.device
import time

myConfig = {
    "identity": {
        "orgId": "jgry6x",
        "typeId": "MyDeviceType",
        "deviceId": "12345"
    },
    "auth": {
        "token": "eB+Vs5Pb3m6f79Vnn"
    }
}

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

while True:
    name = "Smartbridge"
    #in area location
    latitude = 17.4225176
    longitude = 78.5456842
    #out area location
    #latitude= 17.4219272
    #longitude= 78.5488783
    myData={'name': name, 'lat':latitude, 'lon': longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qo
    print("Data published to IBM IoT platform: ",myData)
    time.sleep(5)

client.disconnect()
```



The image shows the IBM Watson IoT Platform dashboard. The top navigation bar includes links for Browse, Action, Device Types, and Interfaces. The main content area displays a table of devices. The first device is 'Smartbridge' with ID 12345, status 'Connected', and device type 'MyDeviceType'. Below the table, there is a section for 'Device Information' showing details for the selected device.

Device ID	Status	Device Type	Class ID	Date Added
12345	Connected	MyDeviceType	Device	14 Nov 2022 11:37

1 Simulation running