

DEVELOP THE PYTHON SCRIPT

Publish data to the IBM Cloud

Team ID : PNT2022TMID31446

Project Title : SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

TO Make a publisher and subscriber in the process of python and IBM cloud

```
publish.py - 10/Python/Python3 10/ publish.py (3.10.0)
File Edit Format Run Options Window Help
#Through python coding We are going to access the Subscriber and p
import paho.mqtt.client as paho
import time
import random

def on_publish(client, userdata, mid):
    print("Publish the data ")

client = paho.Client()
client.on_publish = on_publish
client.connect('broker.mqttdashboard.com', 1883)
client.loop_start()
while True:
    temp = random.randint(1,30)
    (rc,mid)= client.publish('iottopic',str(temp),qos=1)
    print(temp)
    time.sleep(10)
```

```
*untitled*
File Edit Format Run Options Window Help
import paho.mqtt.client as paho
def on_subscribe(client,userdata,mid,grated_qos):
    print("subscribe:" + str(mid)+str(granted_qos))

def on_message(client, userdata,msg):
    print(msg.topic + "" + str(msg.qos) + "" + str(msg.payload))

client=paho.Client()
client.on_subscribe = on_subscribe
client.on_message = on_message
client.connect('broker.mqttdashboard.com', 1883)
client.subscribe
```

publish.py - D:/Python/Python310/publish.py (3.10.8)

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```
#Through python coding We are going to access the Subscriber
import paho.mqtt.client as paho
import time
import random

def on_publish(client, userdata, mid):
    print("Publish the data ")

client = paho.Client()
client.on_publish = on_publish
client.connect('broker.mqttdashboard.com', 1883)
client.loop_start()
while True:
    temp = random.randint(1,30)
    (rc,mid)= client.publish('iottopic',str(temp),qos=1)
    print(temp)
    time.sleep(10)
```

Sales

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New video

Command Prompt - python publish.py

C:\Users\USER>python publish.py

15

Publish the data

4

Publish the data

1

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Command Prompt - python subscriber.py

15

Publish the data

4

Publish the data

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Publish the data

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Publish the data

subscribe.py - D:/Python/Python310/subscribe.py (3.10.8)

File Edit Format Run Options Window Help

```
import paho.mqtt.client as paho
def on_subscribe(client,userdata,mid,grated_qos):
    print("subscribe:" + str(mid)+str(granted_qos))

def on_message(client, userdata,msg):
    print(msg.topic + " " + str(msg.qos) + " " + str(msg.payload))

client=paho.Client()
client.on_subscribe = on_subscribe
client.on_message = on_message
client.connect('broker.mqttdashboard.com', 1883)
client.subscribe('iottopic',qos=1)
client.loop_forever()
```

7K0368

10: 7K0368

Your boards Public boards

Create New Board

IOT MONITOR BOARD

No cards

Owned by you

USAGE OVERVIEW

3 Cards

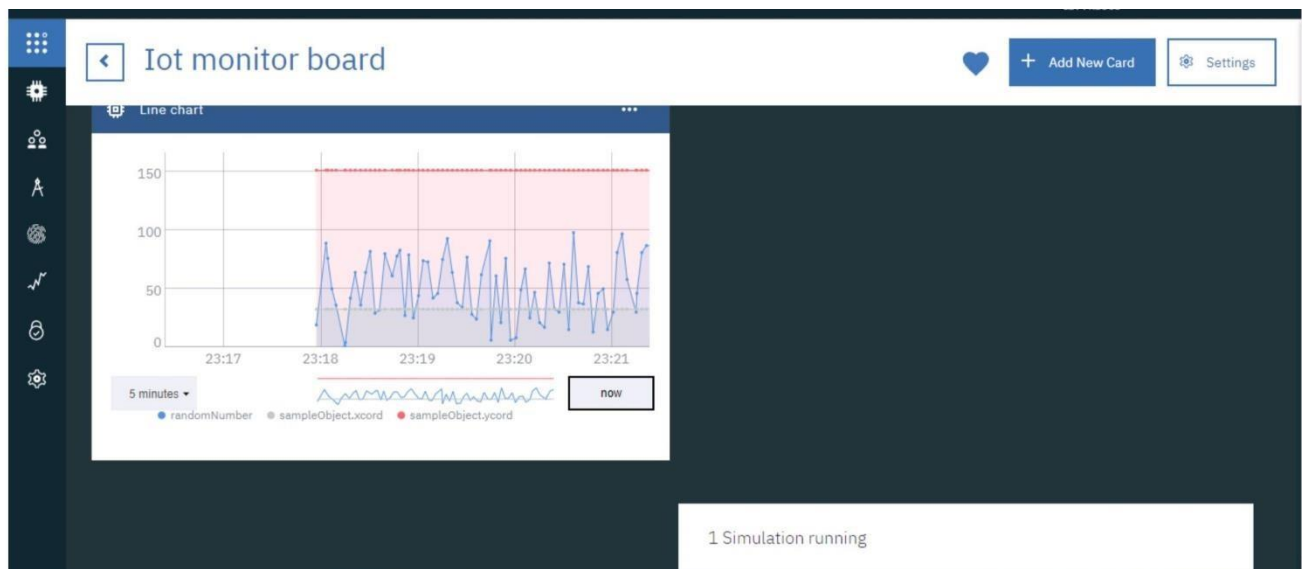
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RISK AND SECURITY OVERVIEW

4 Cards

Owned by you

Boards shared with you



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Address bar: cloud.ibm.com

Search bar: Search resources and products...

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Dashboard

Edit dashboard | Upgrade account | Create resource

Select an option

Build

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Windows taskbar: Type here to search, 25°C Cloudy, 09:42, 02-11-2022

PROGRAM

#IBM
Watson
IOT
Platform

```

#pip install wiotp-sdk
import wiotp.sdk.device
import time import
random myConfig = {
    "identity": {
        "orgId": "hj5fmy",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}

def myCommandCallback(cmd): print("Message received from IBM IoT Platform: %s" %
    cmd.data['command']) m=cmd.data['command']

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

while True:
    temp=random.randint(-20,125) hum=random.randint(0,100) myData={'temperature':temp,
    'humidity':hum} client.publishEvent(eventId="status", msgFormat="json", data=myData,
    qos=0, onPublish=None) print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback time.sleep(2)
client.disconnect()

```

