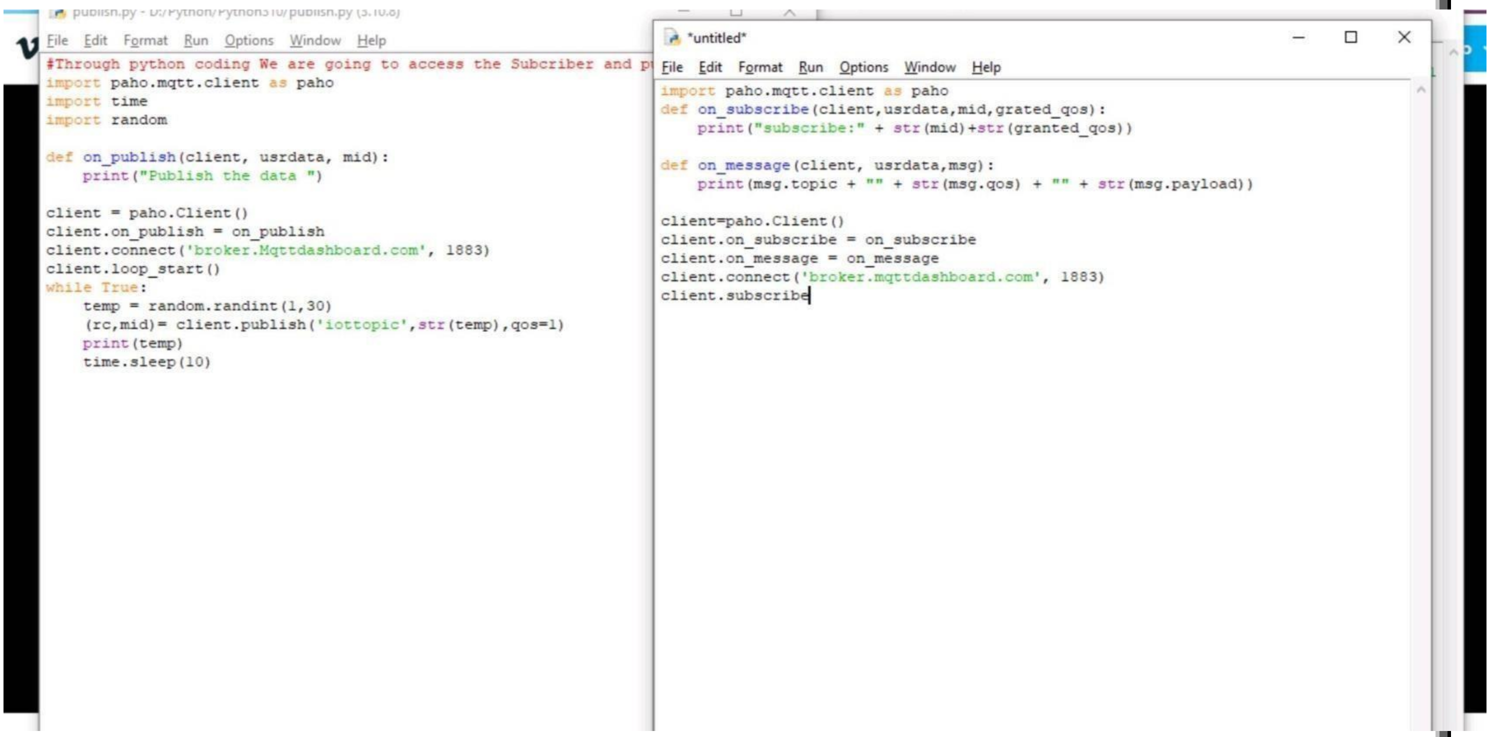
DEVELOP THE PYTHON SCRIPT

Publish data to the IBM Cloud

Team ID : PNT2022TMID31413

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 - D:/Python/Python310/publish.py (3.10.8)
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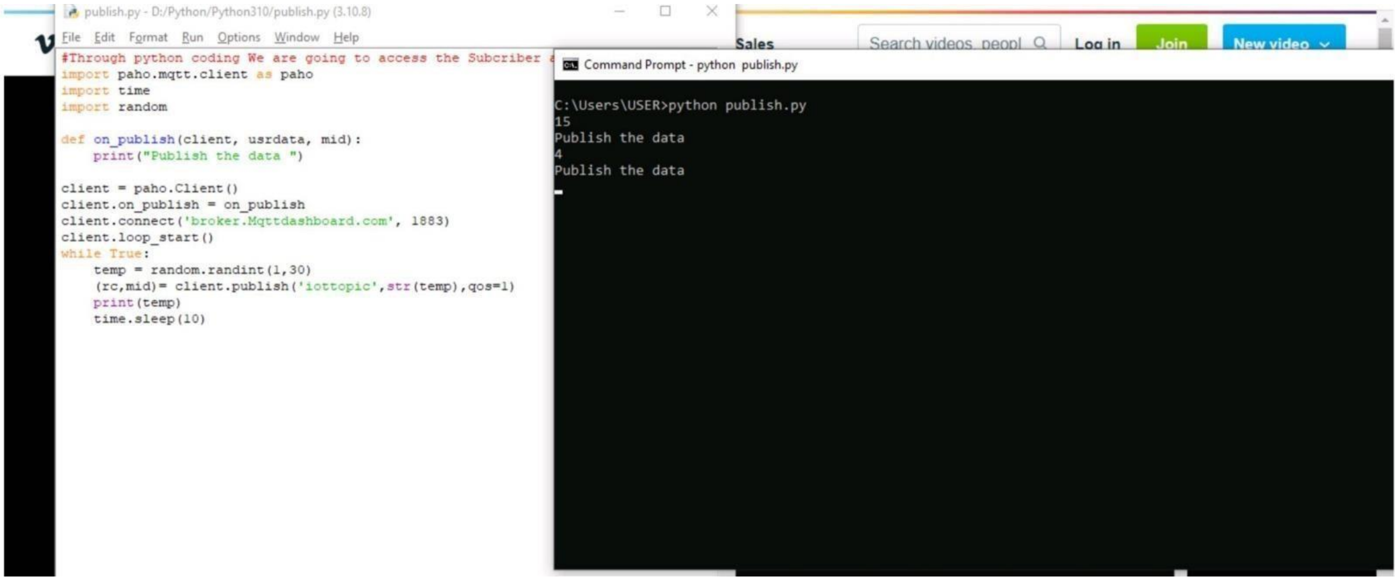
```
#Through python coding We are going to access the Subcriber and p
import paho.mqtt.client as paho
import time
import random

def on_publish(client, usrdata, 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)
```

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

def on_message(client, usrdata,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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Sales
Search videos, peopl
Log in
Join
New video
Command Prompt - python publish.py

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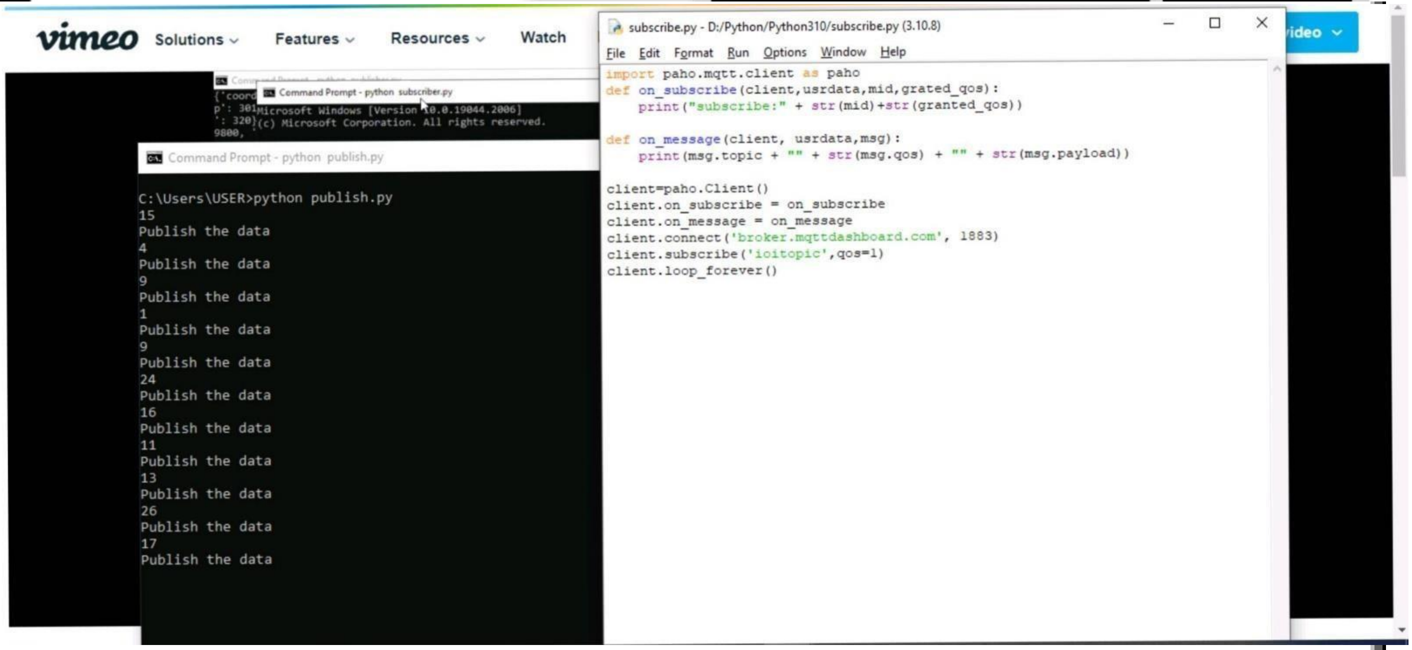
```

```
C:\Users\USER>python publish.py
15
Publish the data
4
Publish the data
```


vimeo
Solutions
Features
Resources
Watch
video
subscribe.py - D:/Python/Python310/subscribe.py (3.10.8)
File Edit Format Run Options Window Help
Command Prompt - python subscriber.py
Command Prompt - python publish.py

```
{'coord
p': 301
': 320}
9800,
```

```
Microsoft Windows [Version 10.0.19044.2006]
(c) Microsoft Corporation. All rights reserved.
```

```
C:\Users\USER>python publish.py
15
Publish the data
4
Publish the data
9
Publish the data
1
Publish the data
9
Publish the data
24
Publish the data
16
Publish the data
11
Publish the data
13
Publish the data
26
Publish the data
17
Publish the data
```

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def on_message(client, usrdata,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('ioitopic',qos=1)
client.loop_forever()
```
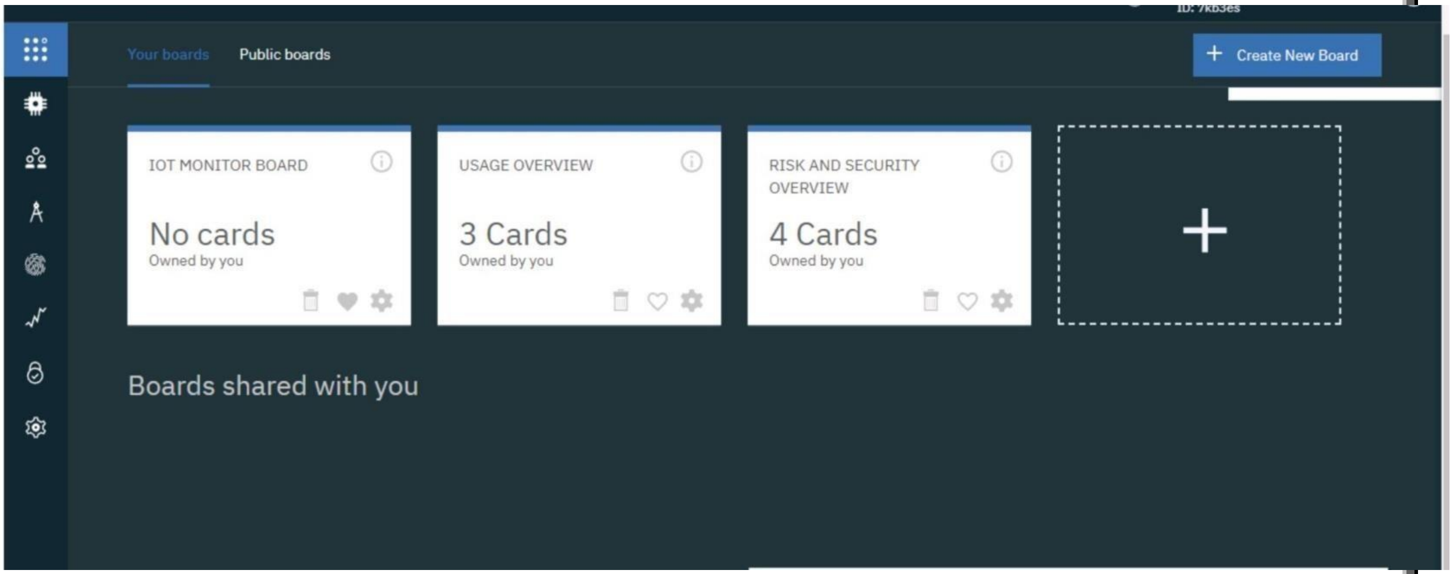
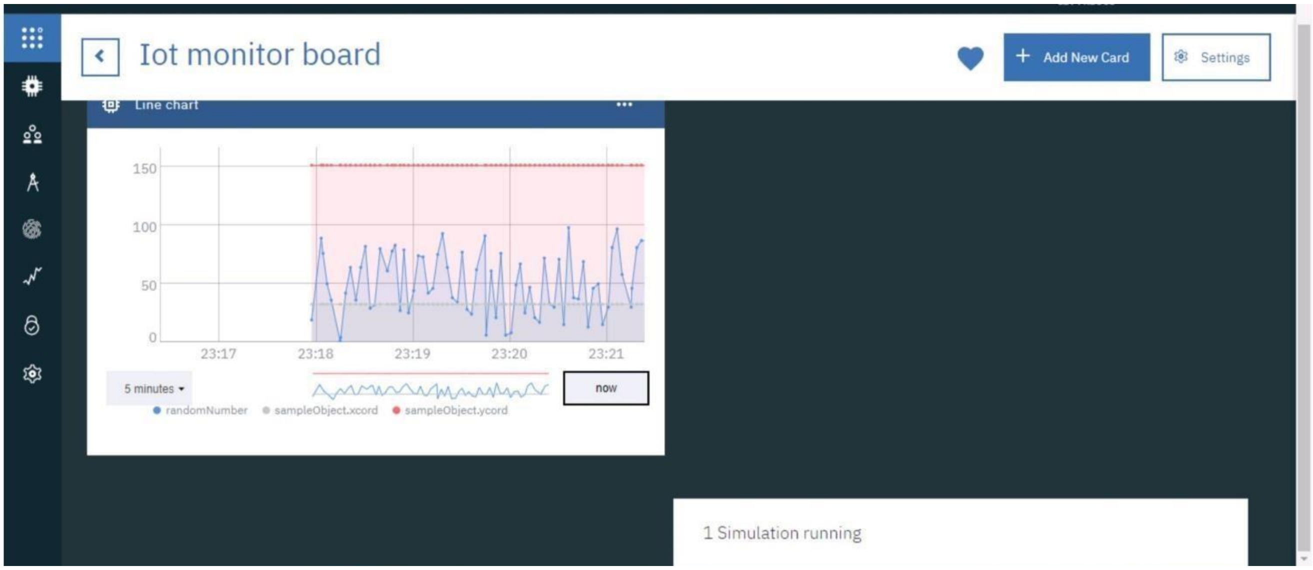
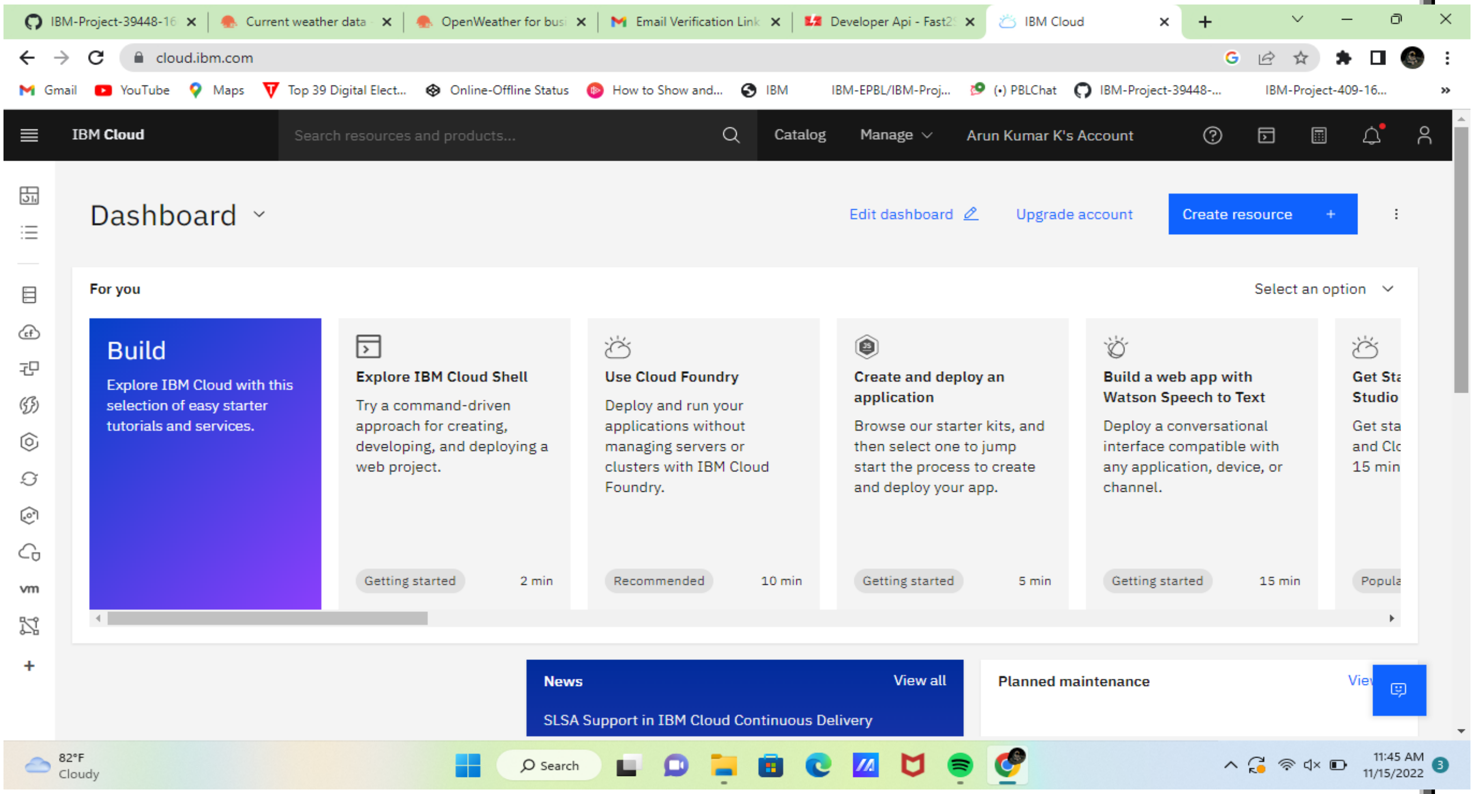


ID: 7kb3es
Your boards
Public boards
+ Create New Board
IOT MONITOR BOARD
No cards
Owned by you
USAGE OVERVIEW
3 Cards
Owned by you
RISK AND SECURITY OVERVIEW
4 Cards
Owned by you
+
Boards shared with you



1 Simulation running



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Getting started 5 min

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Deploy a conversational interface compatible with any application, device, or channel.
Getting started 15 min

Get Sta Studio
Get sta and Clo 15 min
Popula

News View all
SLSA Support in IBM Cloud Continuous Delivery

Planned maintenance View

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()
```