

PUBLISH DATA TO IBM CLOUD

DATE	17 NOVEMBER 2022
TEAM ID	PNT2022TMID33506
PROJECT NAME	Intelligent Specific Intelligent Fire Management System

```
#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)
    (re,mid) = client.publish('iottopic',str(temp),qos=1)
    print(temp)
    time.sleep(10)
```

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MS
C v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more informatio
n.
>>>
===== RESTART: E:\IBM\Others\Develop a python script\
publish.py =====
7
Publish the data
19
Publish the data
10
Publish the data
```

```
subscribe.py - C:\Users\Othman\Documents\python scripts\subscribe.py (3.6.3)
File Edit Format Run Options Window Help

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

```
Python 3.6.3 Shell
File Edit Shell Debug Options Window Help
Publish the data
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Publish the data
```

Browse Action Device Types Interfaces Add Device +

▼ Ece Disconnected Aishu Device Nov 13, 2022 6:54 PM → ...

Identity Device Information Recent Events State Logs X

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
event_1	{"randomNumber":87}	json	a few seconds ago
event_1	{"randomNumber":19}	json	a few seconds ago
event_1	{"randomNumber":37}	json	a few seconds ago
event_1	{"randomNumber":31}	json	a few seconds ago
event_1	{"randomNumber":92}	json	a few seconds ago

1 Simulation running



PROGRAM :

```
#IBM Watson IOT Platform #pip install wiotp-sdk
import wiotp.sdk.device import time import random
myConfig = {"identity":
{
"orgId": "hj5fmy",
"typeld": "NodeMCU",
"deviceId":"12345" }, "auth": {"token": "12345678"}
}
def myCommandCallback(cmd):
Platform:
%S"
print("Message
received
```

```
from
IBM
IoT
% 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) 'humidity':hum}
hum=random.randint(0,100)
myData={'temperature':temp,
client.publishEvent(eventid="status", msg
Format="json", data=myData, qos=0, on Publish=None)
print("Published data Successfully: %s",
myData)
client.commandCallback
myCommandCallback time.sleep(2)
client.disconnect()
```