

PUBLISH DATA TO THE IBM CLOUD



The image shows a screenshot of a code editor and a terminal window. The code editor on the left contains a Python script named `publish.py` that connects to a MQTT broker and publishes random data. The terminal window on the right shows the execution of the script, displaying the Python version and the output of the `publish` function.

```
#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.Mqttddashboard.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 information.
>>>
===== RESTART: E:/IBM/Others/Develop a python script/publish.py =====
7
Publish the data
19
Publish the data
10
Publish the data

subscribe.py - E:\BM\Others\Develop a python script\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
13
Publish the data
3
Publish the data
25
Publish the data
19
Publish the data
2
Publish the data
7
Publish the data
9
Publish the data
```

Ln 5 Col 0

Ln 2 Col 15

Service Details - IBM Cloud

IBM Watson IoT Platform

+

←

→

↻

ksgtfti.internetofthings.ibmcloud.com/dashboard/devices/drilldown/123:123_1?returnTo=/devices/browse

🔗

☆

🖨

🌐

⋮

IBM Watson IoT Platform

?

961819106025@smartinternz.com

ID: ksgtfti

👤

⋮

⚙️

👤

📡

📈

🔒

⚙️

←

Back

Device Drilldown - 123_1

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

←

Recent Events

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

Event	Value	Format	Last Received
eventtest	{"randomNumber":93,"temp":35,"hum":85}	json	a few seconds ago
eventtest	{"randomNumber":45,"temp":80,"hum":100}	json	a few seconds ago
eventtest	{"randomNumber":6,"temp":55,"hum":98}	json	a minute ago
eventtest	{"randomNumber":18,"temp":61,"hum":89}	json	a minute ago

State

5 Simulations running

🪟

🔍 Type here to search

🌻

🍄

🍄

🔍

🖨

🌐

📁

📅

📧 3

🔍

🌤 30°C Mostly sunny

⬆ 🔊 🔊 ENG

11:34 03-11-2022

🗨 5

Service Details - IBM Cloud

IBM Watson IoT Platform

← → ↻ ksgtfti.internetofthings.ibmcloud.com/dashboard/devices/drilldown/123:123_1?returnTo=/devices/browse

IBM Watson IoT Platform

961819106025@smartinternz.com
ID: ksgtfti

⋮

⚙️

👤

👤

📶

📶

🔒

⚙️

← Back

Device Drilldown - 123_1

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

State

This table shows a list of data points that are reported by this device.

📶 Showing Raw Data | No Interfaces Available

Property	Value	Type	Event	Last Received
randomNumber	93	Number	eventtest	a few seconds ago
temp	35	Number	eventtest	a few seconds ago
hum	85	Number	eventtest	a few seconds ago

Device Information

5 Simulations running

🪟 🔍 Type here to search

🌻 🍄

🔍 📅 📧 📧 📧

🌐 📁 📅 📧

🔍 📧

🌤️ 30°C Mostly sunny

🔊 🗣️ ENG

11:34
03-11-2022

🗨️ 5

Service Details - IBM Cloud

IBM Watson IoT Platform

← → ↻ 🔒

ksgtfi.internetofthings.ibmcloud.com/dashboard/boards/3d0326cb-7806-4817-ac14-eeca04dd97e8

🔗 ☆ 🖨️ 🌐

j

⋮

IBM Watson IoT Platform

?

961819106025@smartinternz.com

ID: ksgtfi

👤

⋮

⚙️

👤

🏠

🌀

⚡

🔒

⚙️

⬅️

MY BOARD

❤️

+ Add New Card

⚙️ Settings

⚙️

Line chart

⋮

Time	hum	temp
20:11:48	90	45
20:11:50	90	45
20:11:52	90	45
20:11:54	90	45
20:11:56	90	45

10 seconds ▾

now

● hum

● temp

5 Simulations running

🪟 🔍 Type here to search

🌤️ 25°C Cloudy

⬆️ 🔊 ENG

20:11

04-11-2022

📧 3