

TEAM ID : PNT2022TMID12796

PROJECT TITLE : Industry-Specific Intelligent Fire Management System

PUBLISH DATA TO THE IBM CLOUD

```
2.py - C:/Python/Python311/2.py (3.11.0)
File Edit Format Run Options Window Help
#TEAM ID : PNT2022TMID12796
#PROJECT TITLE : Industry-Specific Intelligent Fire Management System
#IBM Watson IoT platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig={
    "identity": {
        "orgId": "86ykjn",
        "typeId": "Iot_python",
        "deviceId": "4702"
    },
    "auth": {
        "token": "&UA!cNgGrBoj+T+_KA"
    }
}
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()
```

```
IDLE Shell 3.11.0
File Edit Shell Debug Options Window Help
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python/Python311/2.py =====
2022-11-15 18:27:44,495 wiotp.sdk.device.client.DeviceClient INFO
successfully: d:s8ovlq:abcd:12345Published data Successfully: %s
{'temperature': 54, 'humidity': 51}
Published data Successfully: %s {'temperature': 34, 'humidity': 53}
Published data Successfully: %s {'temperature': 29, 'humidity': 53}
Published data Successfully: %s {'temperature': 102, 'humidity': 54}
Published data Successfully: %s {'temperature': -3, 'humidity': 62}
Published data Successfully: %s {'temperature': 85, 'humidity': 92}
Published data Successfully: %s {'temperature': 33, 'humidity': 7}
Published data Successfully: %s {'temperature': 20, 'humidity': 74}
Published data Successfully: %s {'temperature': -5, 'humidity': 5}
Published data Successfully: %s {'temperature': 112, 'humidity': 81}
Published data Successfully: %s {'temperature': 58, 'humidity': 5}
Published data Successfully: %s {'temperature': 53, 'humidity': 99}
Published data Successfully: %s {'temperature': 48, 'humidity': 40}
>>>
```

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

Device ID Status Device Type Class ID Date Added Descriptive Location

>	4702	Disconnected	Iot_python	Device	Nov 16, 2022 10:05 PM	
>	9999	Disconnected	IOT	Device	Nov 15, 2022 8:09 PM	
▼	Iot_python_1	Connected	Iot_python	Device	Nov 16, 2022 10:16 PM	→ ...

Identity Device Information Recent Events State Logs

Device ID Iot_python_1

Device Type Iot_python

Date Added Nov 16, 2022 10:16 PM

Added By g.subaash04072002@gmail.com

Connection Status **Connected**
Last Connected: Nov 17, 2022 3:27 PM
Client Address: 121.200.48.26 SecureToken
Duration: a few seconds
Data Transferred: 515 B

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IBM Watson IoT Platform

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Browse Action Device Types Interfaces

9999 Disconnected IOT Device Nov 15, 2022 8:09 PM

Iot_python_1 Connected Iot_python Device Nov 16, 2022 10:16 PM → ...

Identity Device Information Recent Events State Logs

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

Event	Value	Format	Last Received
event_2	{"randomNumber":85}	json	a few seconds ago
event_2	{"randomNumber":80}	json	a few seconds ago
event_2	{"randomNumber":98}	json	a few seconds ago
event_2	{"randomNumber":74}	json	a few seconds ago
event_2	{"randomNumber":60}	json	a few seconds ago