

**PUBLISH DATA TO THE IBM
CLOUD**

Date	18 November 2022
Team ID	PNT2022TMID36194
Project Name	Gas leakage monitoring and alerting system

#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device

import time

import random

myConfig = {

"identity": {

"orgId": "9q9raj",

"typeId": "manikandan",

"deviceId": "6009"

},

"auth": {

"token": " a-9q9raj-alnlrmedqm "

}

}

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()

OUTPUT

Demo.py - C:\Users\ELCOT\Desktop\Demo.py (3.7.4)

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```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "9q9raj",
        "typeId": "manikandan",
        "deviceId": "6009"
    },
    "auth": {
        "token": "a-9q9raj-ahnrmcdqm"
    }
}

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()
```

Python 3.7.4 Shell

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```
Published data Successfully: %s ('temperature': 94, 'humidity': 99)
Published data Successfully: %s ('temperature': 107, 'humidity': 20)
Published data Successfully: %s ('temperature': -7, 'humidity': 0)
Published data Successfully: %s ('temperature': 112, 'humidity': 45)
Published data Successfully: %s ('temperature': 15, 'humidity': 17)
Published data Successfully: %s ('temperature': 97, 'humidity': 69)
Published data Successfully: %s ('temperature': 116, 'humidity': 68)
Published data Successfully: %s ('temperature': 90, 'humidity': 10)
Published data Successfully: %s ('temperature': 52, 'humidity': 35)
Published data Successfully: %s ('temperature': -16, 'humidity': 79)
Published data Successfully: %s ('temperature': 85, 'humidity': 26)
Published data Successfully: %s ('temperature': -10, 'humidity': 29)
Published data Successfully: %s ('temperature': 50, 'humidity': 17)
Published data Successfully: %s ('temperature': 21, 'humidity': 59)
Published data Successfully: %s ('temperature': 103, 'humidity': 91)
Published data Successfully: %s ('temperature': 22, 'humidity': 17)
Published data Successfully: %s ('temperature': 46, 'humidity': 28)
Published data Successfully: %s ('temperature': 111, 'humidity': 14)
Published data Successfully: %s ('temperature': 93, 'humidity': 74)
Published data Successfully: %s ('temperature': 112, 'humidity': 80)
Published data Successfully: %s ('temperature': -5, 'humidity': 75)
Published data Successfully: %s ('temperature': -17, 'humidity': 91)
Published data Successfully: %s ('temperature': 18, 'humidity': 68)
Published data Successfully: %s ('temperature': -5, 'humidity': 23)
Published data Successfully: %s ('temperature': 68, 'humidity': 9)
Published data Successfully: %s ('temperature': 12, 'humidity': 79)
Published data Successfully: %s ('temperature': 21, 'humidity': 67)
Published data Successfully: %s ('temperature': 71, 'humidity': 67)
Published data Successfully: %s ('temperature': 121, 'humidity': 93)
Published data Successfully: %s ('temperature': 41, 'humidity': 67)
Published data Successfully: %s ('temperature': 2, 'humidity': 53)
Published data Successfully: %s ('temperature': 34, 'humidity': 37)
Published data Successfully: %s ('temperature': -1, 'humidity': 72)
Published data Successfully: %s ('temperature': 80, 'humidity': 2)
Published data Successfully: %s ('temperature': 74, 'humidity': 34)
Published data Successfully: %s ('temperature': 7, 'humidity': 27)
Published data Successfully: %s ('temperature': 112, 'humidity': 72)
Published data Successfully: %s ('temperature': -17, 'humidity': 78)
Published data Successfully: %s ('temperature': -4, 'humidity': 72)
```

IBM WATSON IOT OUTPUT

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Device Drilldown - 6009

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

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

Event	Value	Format	Last Received
status	{"temperature":105,"humidity":56}	json	a few seconds ago
status	{"temperature":94,"humidity":9}	json	a few seconds ago
status	{"temperature":85,"humidity":0}	json	a few seconds ago
status	{"temperature":21,"humidity":94}	json	a few seconds ago
status	{"temperature":122,"humidity":34}	json	a few seconds ago