

PUBLISH THE DATA TO THE IBM CLOUD

Date	17 November 2022
Team Id	PNT2022TMID25311
Project title	Smart waste management system for metropolitan cities

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()
```

The screenshot displays the IBM Watson IoT Platform web interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various platform features. The main content area is titled 'Recent Events' and shows a table of live data streams. The table has four columns: 'Event', 'Value', 'Format', and 'Last Received'. Below the table, a status message indicates '1 Simulation running'. The browser's address bar shows the URL 'skxvyr.internetofthings.ibmcloud.com/dashboard/devices/browse'.

Event	Value	Format	Last Received
event_1	{"temp":53,"hum":10}	json	a few seconds ago
event_1	{"temp":100,"hum":1}	json	a few seconds ago
event_1	{"temp":6,"hum":39}	json	a few seconds ago
event_1	{"temp":98,"hum":82}	json	a few seconds ago
event_1	{"temp":30,"hum":30}	json	a few seconds ago

waston 1.py - C:\Users\abish\AppData\Local\Programs\Python\Python39\waston 1.py (3.9.6)

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```
import time
import sys
import ibmiotf.application
import random

organization = "abisha"
deviceType = "swms"
deviceId = "6032"
authMethod = "token"
authToken = "311519106031"

def mycommandcallback(cmd):
    print("command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="lighton":
        print("led is on")
    else :
        print ("led is off")

try:
    deviceOptions = { "org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth_token": authToken }
    //deviceCli = ibmiotf.device.Client(deviceOptions)

except Exception as e:
    print("caught exception connecting device: %s" % str(e))
    sys.exit()

deviceCli.connect()
while True:

    temp=random.randint(0,100)
    Humid=random.randint(0,100)

    data={ 'temp':temp, 'Humid':Humid }

    def myonpublishcallback():
        print("published Temperature = %s C" % temp,Humidity = %s %% " % Humid, "to IBM waston")
        success = deviceCli.publishEvent("IOTSensor","json",data,qos=0,on_publish=myonpublishcallback)
        if not success:
            print(Not connect to IOTF")
            time.sleep(1)
```

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```
Python 2.7.13 Shell
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Python 2.7.13 (default, Jan 19 2017, 14:48:08)
[GCC 6.3.0 20170124] on linux2
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /home/pi/Downloads/dht11toibmiot.py =====
2017-10-23 07:10:37,768 ibmiotf.device.Client INFO Connected successfully: d:gegt14:mydevice:mydevice
Published Temperature = 28 C Humidity = 50 % to IBM Watson
SensorData Invalid
Published Temperature = 28 C Humidity = 50 % to IBM Watson
SensorData Invalid
Published Temperature = 28 C Humidity = 50 % to IBM Watson
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```