

Publish Data to the IBM Cloud

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|--------------|---|
| Team ID | PNT2022TMID08724 |
| Project Name | SmartWasteManagementSystemFor MetropolitanCities |

PYTHON SCRIPT

```
myconfig - C:\Users\TTTT\Desktop\myconfig.py (1/1)
File Edit Format Run Options Window Help

#IBM Watson IoT Platform
pip install wiotp-sdk
import ibmcloud.application
import ibmcloud.device

import time
import random
myconfig = {
    "identity": {
        "orgId": "33994",
        "appId": "ibmcloud",
        "deviceId": "000000"
    },
    "auth": {
        "token": "cc000000000000000000000000000000"
    }
}

def myCommandCallback(cmd):
    print('Message received from IBM IoT risk(000: %s' % cmd.data['command'])
    cmd.data['command']

client = WiotpSdk.Device.DeviceClient(myconfig, logHandlers=[0])
client.connect()

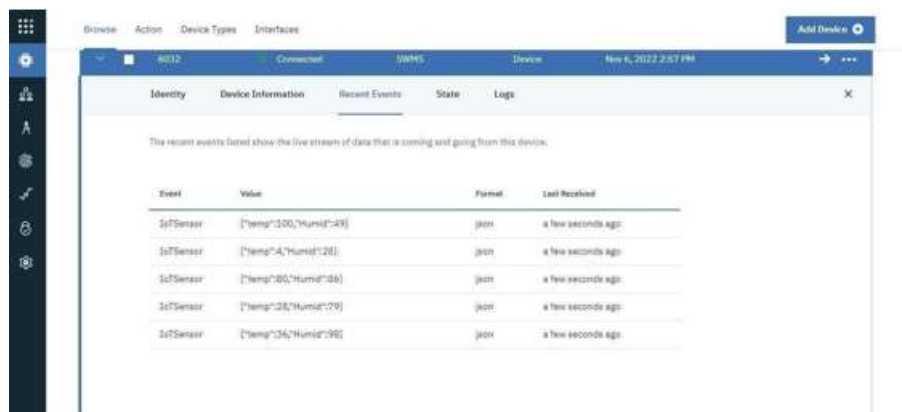
while True:
    temp=random.randint(-20,325)
    hum=random.randint(0,100)
    myData={'temp':temp, 'humidity':hum}
    client.publish(eventId="status", msgFormat="json", data=myData, qos=0, retain=False)
    print("Published data successfully: %s" % myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

OUTPUT:

DATA IN IBM CLOUD PLATFORM:

```
2022-11-06 18:04:52,909 ibmiotf.device.Client INFO Connected successfully: d:dluuh1:SWMS:6032
Published Temperature = 73 C Humidity = 97 % to IBM Watson
Published Temperature = 29 C Humidity = 49 % to IBM Watson
Published Temperature = 22 C Humidity = 38 % to IBM Watson
Published Temperature = 38 C Humidity = 23 % to IBM Watson
Published Temperature = 62 C Humidity = 82 % to IBM Watson
Published Temperature = 96 C Humidity = 54 % to IBM Watson
Published Temperature = 93 C Humidity = 73 % to IBM Watson
Published Temperature = 25 C Humidity = 57 % to IBM Watson
Published Temperature = 67 C Humidity = 26 % to IBM Watson
Published Temperature = 98 C Humidity = 100 % to IBM Watson
Published Temperature = 92 C Humidity = 54 % to IBM Watson
Published Temperature = 6 C Humidity = 59 % to IBM Watson
Published Temperature = 97 C Humidity = 57 % to IBM Watson
Published Temperature = 64 C Humidity = 70 % to IBM Watson
Published Temperature = 38 C Humidity = 14 % to IBM Watson
Published Temperature = 6 C Humidity = 49 % to IBM Watson
Published Temperature = 59 C Humidity = 73 % to IBM Watson
Published Temperature = 57 C Humidity = 20 % to IBM Watson
Published Temperature = 3 C Humidity = 42 % to IBM Watson
Published Temperature = 19 C Humidity = 42 % to IBM Watson
Published Temperature = 68 C Humidity = 19 % to IBM Watson
Published Temperature = 10 C Humidity = 14 % to IBM Watson
Published Temperature = 32 C Humidity = 67 % to IBM Watson
```

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The screenshot shows the IBM Cloud IoT Platform console. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various functions. The main content area displays a table for device 6032, which is connected. The table has columns for 'Event', 'Value', 'Format', and 'Last Received'. Below the table, a message states: 'The recent events listed show the live streams of data that is coming and going from this device.'

| Event | Value | Format | Last Received |
|-----------|-------------------------|--------|-------------------|
| IoTSensor | ["temp":100,"humid":43] | json | a few seconds ago |
| IoTSensor | ["temp":4,"humid":28] | json | a few seconds ago |
| IoTSensor | ["temp":80,"humid":86] | json | a few seconds ago |
| IoTSensor | ["temp":35,"humid":79] | json | a few seconds ago |
| IoTSensor | ["temp":34,"humid":98] | json | a few seconds ago |

