

PUBLISH DATA TO THE IBM CLOUD USING PYTHON

```
Command Prompt
Requirement already satisfied: iso8601>=0.1.12 in c:\users\822619106002\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (1.1.0)
Requirement already satisfied: pytz>=2017.3 in c:\users\822619106002\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (2022.6)
Requirement already satisfied: paho-mqtt>=1.3.1 in c:\users\822619106002\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (1.6.1)
Requirement already satisfied: requests>=2.18.4 in c:\users\822619106002\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (2.28.1)
Requirement already satisfied: requests-toolbelt>=0.8.0 in c:\users\822619106002\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (0.10.1)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\822619106002\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (2.1.1)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\822619106002\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (2022.9.24)
Requirement already satisfied: idna<4,>=2.5 in c:\users\822619106002\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (3.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\822619106002\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (1.26.12)
You are using pip version 10.0.1, however version 22.3.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.
C:\Users\822619106002>

ibm python data.py - C:/Users/822619106002/AppData/Local/Programs/Python/Python37/ibm python data.py (3.7.0)
File Edit Format Run Options Window Help
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "h8ozdo"
deviceType = "values"
deviceId = "12345678"
authMethod = "token"
authToken = "yTj0SU2j3Deau5byZ"

# Initialize GPIO
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="lighton":
        print ("led is on")
    elif status == "lightoff":
        print ("led is off")
    else :
        print ("please send proper command")

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()

# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times
deviceCli.connect()

while True:
    #Get Sensor Data from DHT11
    temp=random.randint(90,110)
    Humid=random.randint(60,100)

Ln: 29 Col: 1
```

Python 3.7.0 Shell

FileEditShellDebugOptionsWindowHelp

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> import ibm
Traceback (most recent call last):
 File "<pyshell#0>", line 1, in <module>
 import ibm
ModuleNotFoundError: No module named 'ibm'
>>> import ibmiotf
>>>
RESTART: C:/Users/822619106002/AppData/Local/Programs/Python/Python37/ibm python data.py
2022-11-16 10:09:57,373 ibmiotf.device.Client INFO Connected successfully: d:h9ozdo:values:12345678Traceback (most recent call last):

 File "C:/Users/822619106002/AppData/Local/Programs/Python/Python37/ibm python data.py", line 43, in <module>
 data = { 'temp': temp, 'Humid': Humid, 'pressure':pressure }
NameError: name 'pressure' is not defined

>>>
RESTART: C:/Users/822619106002/AppData/Local/Programs/Python/Python37/ibm python data.py
2022-11-16 10:12:10,188 ibmiotf.device.Client INFO Connected successfully: d:h9ozdo:values:12345678Traceback (most recent call last):

 File "C:/Users/822619106002/AppData/Local/Programs/Python/Python37/ibm python data.py", line 43, in <module>
 data = { 'temp': temp, 'Humid': Humid, 'pressure':pressure }
NameError: name 'pressure' is not defined
>>> 2022-11-16 10:15:40,561 ibmiotf.device.Client ERROR Unexpected disconnect from the IBM Watson IoT Platform: 7
2022-11-16 10:15:44,275 ibmiotf.device.Client INFO Connected successfully: d:h9ozdo:values:12345678

RESTART: C:/Users/822619106002/AppData/Local/Programs/Python/Python37/ibm python data.py
2022-11-16 10:17:32,745 ibmiotf.device.Client INFO Connected successfully: d:h9ozdo:values:12345678
Published Temperature = 109 C Humidity = 74 % to IBM Watson
Published Temperature = 90 C Humidity = 93 % to IBM Watson
Published Temperature = 108 C Humidity = 99 % to IBM Watson
Published Temperature = 92 C Humidity = 99 % to IBM Watson
Published Temperature = 92 C Humidity = 76 % to IBM Watson
|

Ln: 28 Col: 0

28°C Cloudy 10:18 16-11-2022

Welcome to Project Delight: x IBM x IoT-B1-1M3E (Evening Sessio: x IBM Watson IoT Platform x Python Release Python 3.7.0 x

h9ozdo.internetofthings.ibmcloud.com/dashboard/devices/drilldown/values:12345678?returnTo=/devices/browse

h9ozdo

IBM Watson IoT Platform

vik7502433@gmail.com ID: h9ozdo

Back

Device Drilldown - 12345678

Device Credentials

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

Organization ID

Device Type

Device ID

Authentication Method

Authentication Token

h9ozdo

values

12345678

use-token-auth

yTjOSU2j3DsaU5byZ*

Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.

Find out how to add these credentials to your device

Connection Information

Basic connection information about this device.

Device ID

12345678

Type here to search

28°C Cloudy 09:58 16-11-2022

h9ozdo.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

Search by Device ID

Device Simulator

Device ID

Status

Device Type

Class ID

Date Added

Descriptive Location

12345678

Connected

values

Device

Nov 16, 2022 9:58 AM

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
IoTSensor	{"temp":92,"Humid":99}	json	a few seconds ago
IoTSensor	{"temp":108,"Humid":99}	json	a few seconds ago

Items per page 50 | 1-1 of 1 item

1 of 1 page

Type here to search

28°C Cloudy

10:18 16-11-2022