PUBLISH PYTHON

Date	16 Nov 2022
Team ID	PNT2022TMID14391
Project Name	Industry - specific intelligent management system

```
훩 python.py - C:/Users/HP/Desktop/python.py (3.7.0)
File Edit Format Run Options Window Help
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "s8ovlq",
"typeId": "abcd",
        "deviceId":"12345"
    "auth": {
        "token": "12345678"
    }
1
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()
```

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*Python 3.7.0 Shell*
                                                                                    ×
 File Edit Shell Debug Options Window Help
 Python 3.7.0 (v3.7.0:lbf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6 ^
 4)] on win32
 Type "copyright", "credits" or "license()" for more information.
       ----- RESTART: C:/Users/HP/Desktop/python.py
 2022-11-15 18:27:44,495 wiotp.sdk.device.client.DeviceClient INFO
                                                                                  Connecte
 d 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}
code
 import time import sys
import ibmiotf.application import
ibmiotf.device import random
#Provide your IBM Watson Device Credentials
organization = "s8ov1q" deviceType = "abcd" deviceId =
"12345" authMethod = "token" authToken =
"12345678"
# 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")
```

```
deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "authmethod":
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)
    data = { 'temp' : temp, 'Humid': Humid }
    #print data
    def myOnPublishCallback():
      print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid, "to IBM
Watson")
    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on publish=myOnPublishCallback)
                        print("Not
    if not success:
connected to IoTF")
                       time.sleep(10)
    deviceCli.commandCallback = myCommandCallback
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```