

DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM

DEVELOP A PYTHON CODE

source code.py - C:\Users\BUBU\Desktop\source code.py (3.9.6)

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```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "ih2ifs",
        "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']
    if(m=="motoron"):
        print("Motor is switched on")
    elif(m=="motoroff"):
        print("Motor is switched off")
    print(" ")

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    moist=random.randint(0,14)
    myData={'temperature':temp, 'humidity':hum, 'Moisture':moist}
    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()
```



IDLE Shell 3.9.6

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Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:\Users\BUBU\Desktop\source code.py =====

2022-11-18 03:07:36,289 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:ih2ifs:NodeMCU:12345

Published data Successfully: %s {'temperature': 27, 'humidity': 9, 'Moisture': 5}
Published data Successfully: %s {'temperature': 44, 'humidity': 85, 'Moisture': 7}
Published data Successfully: %s {'temperature': 88, 'humidity': 54, 'Moisture': 2}
Published data Successfully: %s {'temperature': 98, 'humidity': 38, 'Moisture': 12}
Published data Successfully: %s {'temperature': 73, 'humidity': 23, 'Moisture': 4}
Published data Successfully: %s {'temperature': 98, 'humidity': 69, 'Moisture': 12}
Published data Successfully: %s {'temperature': 39, 'humidity': 70, 'Moisture': 14}
Published data Successfully: %s {'temperature': -7, 'humidity': 2, 'Moisture': 10}
Published data Successfully: %s {'temperature': -3, 'humidity': 50, 'Moisture': 3}
Published data Successfully: %s {'temperature': -2, 'humidity': 21, 'Moisture': 3}
Published data Successfully: %s {'temperature': 125, 'humidity': 95, 'Moisture': 10}
Published data Successfully: %s {'temperature': 83, 'humidity': 85, 'Moisture': 10}
Published data Successfully: %s {'temperature': 117, 'humidity': 35, 'Moisture': 11}
Published data Successfully: %s {'temperature': 84, 'humidity': 12, 'Moisture': 14}
Published data Successfully: %s {'temperature': 28, 'humidity': 100, 'Moisture': 10}
Published data Successfully: %s {'temperature': 8, 'humidity': 21, 'Moisture': 6}

