

# PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

## Python Code:

```
#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "OtusOf",
        "typeId": "ESP32",
        "deviceId": "01"
    },
    "auth": {
        "token": "Gowth@m@nk18"
    }
}

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)
```

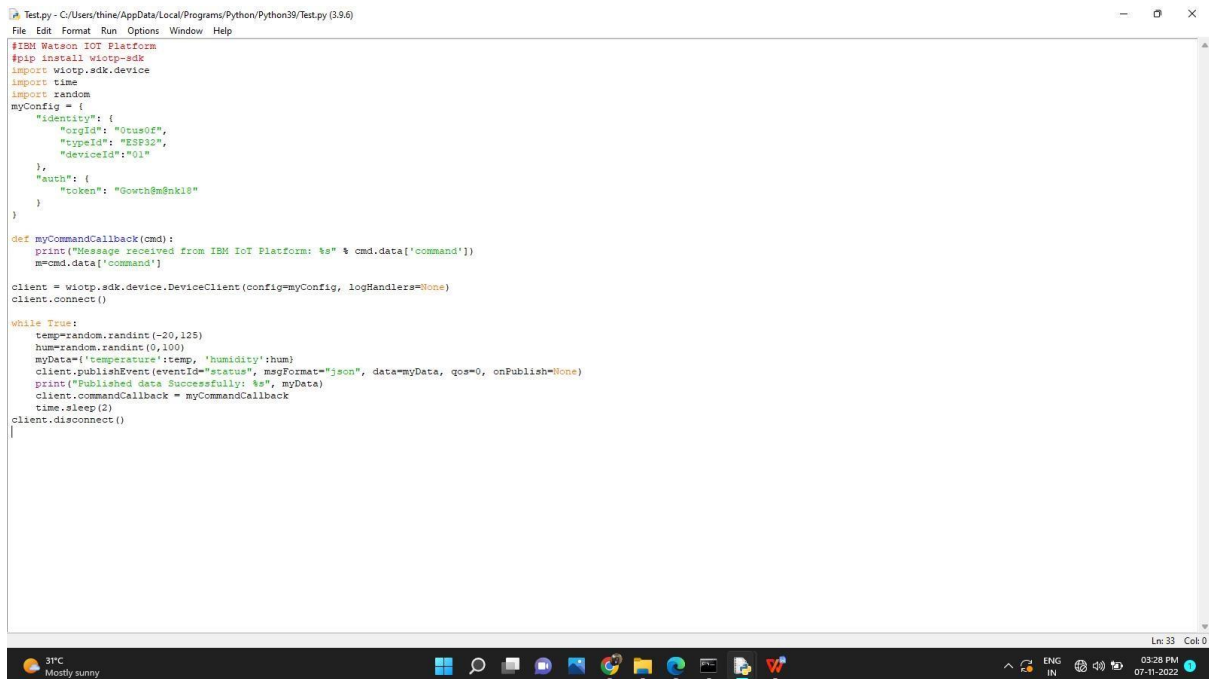
```
print("Published data Successfully: %s", myData)

client.commandCallback = myCommandCallback

time.sleep(2)

client.disconnect()
```

## PYTHON CODE:



```
Test.py - C:/Users/thine/AppData/Local/Programs/Python/Python39/Test.py (3.9.6)
File Edit Format Run Options Window Help

#IBM Watson IoT Platform
#pip install wiotp-sdk
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import time
import random

myConfig = {
    "identity": {
        "orgId": "0cus0ef",
        "typeId": "ESP32",
        "deviceId": "01"
    },
    "auth": {
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    }
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def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
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    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
|
```

## PYTHON OUTPUT:

```
Test.py - C:/Users/thine/AppData/Local/Programs/Python/Python39/Test.py (3.9.6)
File Edit Shell Debug Options Window Help
#IDB
Python 3.9.6 (tags/v3.9.6:db3fff76, 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/thine/AppData/Local/Programs/Python/Python39/Test.py =====
2022-11-07 15:28:58,770 wiotp.sdk.device.client.DeviceClient INFO Connecte
d successfully: d:0tus0f:ESP32:01
Published data Successfully: %s ('temperature': 27, 'humidity': 26)
Published data Successfully: %s ('temperature': 105, 'humidity': 75)
Published data Successfully: %s ('temperature': 119, 'humidity': 69)
Published data Successfully: %s ('temperature': 18, 'humidity': 69)
Published data Successfully: %s ('temperature': 77, 'humidity': 40)
Published data Successfully: %s ('temperature': 12, 'humidity': 72)
Published data Successfully: %s ('temperature': 117, 'humidity': 33)
Published data Successfully: %s ('temperature': 32, 'humidity': 15)
Published data Successfully: %s ('temperature': 25, 'humidity': 19)
Published data Successfully: %s ('temperature': 124, 'humidity': 26)
}
def
clic
clic
while
clic

sh=None)

clic
```

## Watson Cloud IBM:

IBM Watson IoT Platform

710019106014@smartinternz.com  
ID: 0tus0f

Search by Device ID

Device Simulator ☒

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By
01	Connected	ESP32	Device	Nov 6, 2022 9:53 AM		710019106014@smartinternz.com

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
status	["temperature":46,"humidity":68]	json	a few seconds ago
status	["temperature":33,"humidity":16]	json	a few seconds ago
status	["temperature":116,"humidity":24]	json	a few seconds ago
status	["temperature":46,"humidity":1]	json	a few seconds ago
status	["temperature":116,"humidity":32]	json	a few seconds ago

0 Simulations running