

Publish Data to IBM Cloud

Team ID	PNT2022TMID31035
Project Name	Signs With Smart Connectivity For Better Road Safety

Python Script

```
python script ibm.py - C:/Users/SOUNDHARRAJAN/Desktop/python script ibm.py (3.11.0)
File Edit Format Run Options Window Help

import time
import sys
import ibmiotf.device
import random

organization="s5ls80"
deviceType="NodeMCU"
deviceId="12345"
authMethod="token"
authToken="12345678"

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()

deviceCli.connect()
while True:

    temp=random.randint(1,100)
    humid=random.randint(1,100)

    data={'temperature':temp,'humidity':humid}
    def myOnPublishCallback():
        print("published temperature=%d" %temp,"humidity=%d" %humid,"to ibm watson")

    success=deviceCli.publishEvent("IotSensor","json",data,qos=0,on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoTTF")
        time.sleep(3)
deviceCli.disconnect()
```

Python Output

python script ibm.py - C:/Users/SOUNDHARRAJAN/Desktop/python script ibm.py (3.11.0)

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IDLE Shell 3.11.0

File Edit Shell Debug Options Window Help

Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:/Users/SOUNDHARRAJAN/Desktop/python script ibm.py =====

2022-11-18 15:02:25,383 ibmiotf.device.Client INFO Connected successfu

lly: d:s5ls80:NodeMCU:12345

published temperature=1 humidity=13 to ibm watson

published temperature=39 humidity=50 to ibm watson

published temperature=23 humidity=78 to ibm watson

published temperature=89 humidity=19 to ibm watson

published temperature=95 humidity=66 to ibm watson

published temperature=18 humidity=57 to ibm watson

published temperature=79 humidity=55 to ibm watson

published temperature=13 humidity=17 to ibm watson

published temperature=6 humidity=57 to ibm watson

published temperature=75 humidity=97 to ibm watson

published temperature=17 humidity=76 to ibm watson

Ln: 15 Col: 0

Ln: 24 Col: 0



Q Search



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IN



15:02
18-11-2022



Published Data in IBM IoT Watson Platform

IBM

IBM-Project-47685-1660801549/

Service Details - IBM Cloud

IBM Watson IoT Platform

s5ls80.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

guruprasath4301@gmail.com

ID: s5ls80

Browse

Action

Device Types

Interfaces

Add Device

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	{"temperature":57,"humidity":65}	json	a few seconds ago
IotSensor	{"temperature":56,"humidity":56}	json	a few seconds ago
IotSensor	{"temperature":69,"humidity":72}	json	a few seconds ago
IotSensor	{"temperature":94,"humidity":32}	json	a few seconds ago
IotSensor	{"temperature":67,"humidity":59}	json	a few seconds ago

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Search

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15:04 18-11-2022