

PUBLISH DATA TO IBM CLOUD

Team ID	PNT2022TMID11896
Project Name	Smart Waste Management System For Metropolitan

The screenshot displays the IBM IoT Platform interface. At the top, there are tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar labeled 'Search by Device ID' is present. Below this, a table lists devices. One device, ID '123456', is shown as 'Connected' and is a 'sensor' type. Below the device list, a 'Recent Events' tab is selected, showing a stream of data events. Each event is a JSON object containing temperature and humidity data. A 'Python 3.7.0 Shell' window is open in the foreground, displaying the same JSON data being published to the cloud.

Event	Value	Format
IoT Sensor	["temp":76,"Humid":44]	json
IoT Sensor	["temp":84,"Humid":26]	json
IoT Sensor	["temp":34,"Humid":85]	json
IoT Sensor	["temp":91,"Humid":79]	json
IoT Sensor	["temp":21,"Humid":38]	json

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ibmiotpublishsubscribe.py - C:\Users\ADMIN\Downloads\ibmiotpublishsubscribe.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 = "3f3tah"
deviceType = "sensor"
deviceId = "123456"
authMethod = "token"
authToken = "1234567890"

# Initialize GPIO

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

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()
```

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Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Published Temperature = 95 C Humidity = 12 % to IBM Watson
Published Temperature = 46 C Humidity = 77 % to IBM Watson
Published Temperature = 35 C Humidity = 27 % to IBM Watson
Published Temperature = 27 C Humidity = 26 % to IBM Watson
Published Temperature = 18 C Humidity = 60 % to IBM Watson
Published Temperature = 21 C Humidity = 38 % to IBM Watson
Published Temperature = 91 C Humidity = 79 % to IBM Watson
Published Temperature = 34 C Humidity = 85 % to IBM Watson
Published Temperature = 84 C Humidity = 26 % to IBM Watson
Published Temperature = 76 C Humidity = 44 % to IBM Watson
Published Temperature = 31 C Humidity = 30 % to IBM Watson
Published Temperature = 96 C Humidity = 45 % to IBM Watson
Published Temperature = 9 C Humidity = 69 % to IBM Watson
Published Temperature = 63 C Humidity = 36 % to IBM Watson
Published Temperature = 97 C Humidity = 5 % to IBM Watson
Published Temperature = 21 C Humidity = 23 % to IBM Watson
Published Temperature = 30 C Humidity = 41 % to IBM Watson
Published Temperature = 66 C Humidity = 60 % to IBM Watson
Published Temperature = 50 C Humidity = 17 % to IBM Watson
Published Temperature = 76 C Humidity = 92 % to IBM Watson
Published Temperature = 70 C Humidity = 12 % to IBM Watson
Published Temperature = 99 C Humidity = 67 % to IBM Watson
Published Temperature = 89 C Humidity = 80 % to IBM Watson
Published Temperature = 66 C Humidity = 34 % to IBM Watson
Published Temperature = 2 C Humidity = 22 % to IBM Watson
Published Temperature = 21 C Humidity = 53 % to IBM Watson
Published Temperature = 77 C Humidity = 5 % to IBM Watson
Published Temperature = 9 C Humidity = 2 % to IBM Watson
Published Temperature = 11 C Humidity = 75 % to IBM Watson
Published Temperature = 44 C Humidity = 70 % to IBM Watson
Published Temperature = 27 C Humidity = 82 % to IBM Watson
Published Temperature = 90 C Humidity = 55 % to IBM Watson
Published Temperature = 35 C Humidity = 33 % to IBM Watson
Published Temperature = 44 C Humidity = 7 % to IBM Watson
Published Temperature = 56 C Humidity = 80 % to IBM Watson
Published Temperature = 45 C Humidity = 95 % to IBM Watson
Published Temperature = 45 C Humidity = 74 % to IBM Watson
Published Temperature = 100 C Humidity = 80 % to IBM Watson
Published Temperature = 14 C Humidity = 97 % to IBM Watson
Published Temperature = 20 C Humidity = 91 % to IBM Watson

Ln: 206 Col: 0
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Activate Windows
Go to Settings to activate Windows.