

ibmiotpublishsubscribe.py - C:\Users\shrut\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 = "c00c308"
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")

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()

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")
```

Published Temperature = 109 C Humidity = 70 % to IBM Watson
Published Temperature = 98 C Humidity = 75 % to IBM Watson
Published Temperature = 99 C Humidity = 76 % to IBM Watson
Published Temperature = 92 C Humidity = 90 % to IBM Watson
Published Temperature = 104 C Humidity = 89 % to IBM Watson
Published Temperature = 97 C Humidity = 72 % to IBM Watson
Published Temperature = 102 C Humidity = 60 % to IBM Watson
Published Temperature = 110 C Humidity = 72 % to IBM Watson
Published Temperature = 109 C Humidity = 100 % to IBM Watson
Published Temperature = 101 C Humidity = 66 % to IBM Watson
Published Temperature = 99 C Humidity = 90 % to IBM Watson
Published Temperature = 95 C Humidity = 66 % to IBM Watson
Published Temperature = 107 C Humidity = 89 % to IBM Watson
Published Temperature = 93 C Humidity = 74 % to IBM Watson
Published Temperature = 96 C Humidity = 67 % to IBM Watson
Published Temperature = 102 C Humidity = 67 % to IBM Watson
Published Temperature = 90 C Humidity = 85 % to IBM Watson
Published Temperature = 96 C Humidity = 100 % to IBM Watson
Published Temperature = 103 C Humidity = 89 % to IBM Watson
Published Temperature = 90 C Humidity = 86 % to IBM Watson
Published Temperature = 104 C Humidity = 92 % to IBM Watson
Published Temperature = 99 C Humidity = 85 % to IBM Watson
Published Temperature = 108 C Humidity = 78 % to IBM Watson
Published Temperature = 105 C Humidity = 99 % to IBM Watson
Published Temperature = 98 C Humidity = 64 % to IBM Watson
Published Temperature = 92 C Humidity = 81 % to IBM Watson
Published Temperature = 103 C Humidity = 90 % to IBM Watson
Published Temperature = 100 C Humidity = 73 % to IBM Watson
Published Temperature = 92 C Humidity = 75 % to IBM Watson
Published Temperature = 109 C Humidity = 63 % to IBM Watson
Published Temperature = 109 C Humidity = 80 % to IBM Watson
Published Temperature = 106 C Humidity = 94 % to IBM Watson
Published Temperature = 98 C Humidity = 73 % to IBM Watson
Published Temperature = 106 C Humidity = 91 % to IBM Watson
Published Temperature = 109 C Humidity = 77 % to IBM Watson
Published Temperature = 110 C Humidity = 60 % to IBM Watson
Published Temperature = 91 C Humidity = 69 % to IBM Watson
Published Temperature = 108 C Humidity = 74 % to IBM Watson
Published Temperature = 92 C Humidity = 75 % to IBM Watson

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	
▼ <input type="checkbox"/>	12345	Disconnected	abcd	Device	Nov 17, 2022 9:39 PM		→ ...
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	{"temp":108,"Humid":89}	json	a few seconds ago				
IoTSensor	{"temp":96,"Humid":64}	json	a few seconds ago				
IoTSensor	{"temp":101,"Humid":74}	json	a few seconds ago				
IoTSensor	{"temp":95,"Humid":92}	json	a few seconds ago				
IoTSensor	{"temp":92,"Humid":85}	json	a few secor				

1 Simulation running

Node-RED

Deploy

filter nodes

status

link in

link call

link out

comment

function

function

switch

change

range

template

delay

trigger

filter

OpenWhisk

Flow 1

status

Hello Node-RED!

IBM IoT

connected

Temperature

Humidity

msg.payload

[get] /sensor

Output

http

debug

all nodes

all

11/17/2022, 11:12:29 PM node: 12f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/iotSensor/rmt/json ;
msg.payload : number
108

11/17/2022, 11:12:29 PM node: 12f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/iotSensor/rmt/json ;
msg.payload : number
78

11/17/2022, 11:12:39 PM node: 12f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/iotSensor/rmt/json ;
msg.payload : number
105

11/17/2022, 11:12:39 PM node: 12f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/iotSensor/rmt/json ;
msg.payload : number
99

11/17/2022, 11:12:49 PM node: 12f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/iotSensor/rmt/json ;
msg.payload : number
98

11/17/2022, 11:12:49 PM node: 12f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/iotSensor/rmt/json ;
msg.payload : number
64

← → ↻ ⌂ ⚠ Not secure | 159.122.183.64:30582/sensor

SearchAmong EC18301-unit 1--no... docs.oracle.com/cd... nc-logo The Ups and Down... Download Eleventh... English Lecture on... Cloudflare's Archite... Chennai 600028 II S... Other bo

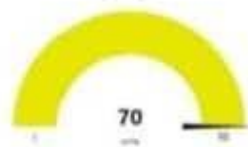
{"temp":92,"Humid":75}



IOT Fire Alarm



gauge



slider

Temperature



MIT App Inventor interface showing a project titled "Intelligent_Fire_Management_System". The interface includes a left sidebar with "Blocks" and "Media" sections, and a main "Viewer" area displaying a Scratch-style block-based code editor.

Blocks Section:

- Built-in
 - Control
 - Logic
 - Math
 - Text
 - Lists
 - Dictionaries
 - Colors
 - Variables
 - Procedures
- Screen1
 - HorizontalArrangement1
 - Label1
 - TextBox1
 - HorizontalArrangement2
 - Label2
 - TextBox2
 - Web1
 - Rename
 - Delete
- Media
 - Upload File ...

Viewer Area Code:

```
when Clock1.Timer do
  set Web1.Url to "http://159.122.183.64:30582/sensor"
  call Web1.Get

when Web1.GetText
  uri responseCode responseType responseContent
  do
    set TextBox1.Text to look up in pairs key "Temperature:" pairs call Web1.JsonTextDecode jsonText get responseContent
    set TextBox2.Text to look up in pairs key "Humidity:" pairs call Web1.JsonTextDecode jsonText get responseContent
    notFound "not found"
```

At the bottom, a notification bar indicates: "meet.google.com is sharing your screen. Stop sharing Hide".

Fire Management System

Temperature: 104°C

Humidity: 85%