

PUBLISH DATA TO THE IBM CLOUD

Date	16 NOVEMBER 2022
Team ID	PNT2022TMID32972
Project Name	Project - Real-Time River Water Quality Monitoring and Control System
Maximum Marks	4 Marks

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\DELL\Downloads\ibmiotpublishsubscribe.py =====
2022-11-17 10:56:55,227 ibmiotf.device.Client INFO Connected successful
ly: diuo60re:AKASH:1234
Published temp = 69 'C Turbidity = 57 % phvalue = 9 % to IBM Watson
Published temp = 63 'C Turbidity = 18 % phvalue = 12 % to IBM Watson
Command received: lightoff
led is off
Published temp = 75 'C Turbidity = 93 % phvalue = 13 % to IBM Watson
Command received: lighton
led is on
Published temp = 89 'C Turbidity = 71 % phvalue = 11 % to IBM Watson
Published temp = 68 'C Turbidity = 44 % phvalue = 9 % to IBM Watson
Published temp = 74 'C Turbidity = 92 % phvalue = 5 % to IBM Watson
Published temp = 96 'C Turbidity = 60 % phvalue = 13 % to IBM Watson
Published temp = 69 'C Turbidity = 58 % phvalue = 10 % to IBM Watson
Published temp = 60 'C Turbidity = 66 % phvalue = 6 % to IBM Watson
Published temp = 90 'C Turbidity = 42 % phvalue = 10 % to IBM Watson
Published temp = 83 'C Turbidity = 70 % phvalue = 9 % to IBM Watson
Published temp = 80 'C Turbidity = 12 % phvalue = 9 % to IBM Watson
Published temp = 99 'C Turbidity = 72 % phvalue = 5 % to IBM Watson
Published temp = 90 'C Turbidity = 11 % phvalue = 12 % to IBM Watson
Published temp = 60 'C Turbidity = 14 % phvalue = 8 % to IBM Watson
Published temp = 61 'C Turbidity = 60 % phvalue = 9 % to IBM Watson
Published temp = 67 'C Turbidity = 1 % phvalue = 4 % to IBM Watson
Published temp = 93 'C Turbidity = 87 % phvalue = 3 % to IBM Watson
Published temp = 83 'C Turbidity = 36 % phvalue = 12 % to IBM Watson
Published temp = 64 'C Turbidity = 11 % phvalue = 2 % to IBM Watson
Published temp = 83 'C Turbidity = 48 % phvalue = 8 % to IBM Watson
Published temp = 92 'C Turbidity = 86 % phvalue = 4 % to IBM Watson
Published temp = 61 'C Turbidity = 6 % phvalue = 9 % to IBM Watson
Published temp = 94 'C Turbidity = 64 % phvalue = 5 % to IBM Watson
Command received: lightoff
led is off
Published temp = 69 'C Turbidity = 54 % phvalue = 9 % to IBM Watson
Published temp = 85 'C Turbidity = 74 % phvalue = 4 % to IBM Watson
Published temp = 87 'C Turbidity = 84 % phvalue = 4 % to IBM Watson

ibmiotpublishsubscribe.py - C:\Users\DELL\Downloads\ibmiotpublishsubscribe.py (3.7.0)
File Edit Format Run Options Window Help
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,
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
deviceCli.connect()

while True:
#Get Sensor Data from DHT11
temp=random.randint(60,100)
Turbidity=random.randint(0,100)
phvalue=random.randint(2,14)

data = { 'temp': temp, 'Turbidity': Turbidity,'phvalue': phvalue}
#print data
def myOnPublishCallback():
print ("Published temp = %s 'C" % temp, "Turbidity = %s %" % Turbidity)
success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
if not success:
print("Not connected to IoT")

IBM Watson IoT Platform
x
+

u060re.internetofthings.ibmcloud.com/dashboard/devices/browse
Gmail Maps News Translate

IBM Watson IoT Platform
820419106034@smarterintmz.com
ID: u060re
Add Device

Browse Action Device Types Interfaces
Search by Device ID
Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
1234	Connected	AKASH	Device	Nov 16, 2022 10:11 AM		820419106034@smarterintmz.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
event_1	["temp":69,"Turbidity":63,"phvalue":7]	json	a few seconds ago
IoTSensor	["temp":89,"Turbidity":71,"phvalue":11]	json	a few seconds ago
event_1	["temp":66,"Turbidity":17,"phvalue":7]	json	a few seconds ago
event_1	["temp":84,"Turbidity":0,"phvalue":14]	json	a few seconds ago
event_1	["temp":89,"Turbidity":12,"phvalue":8]	json	a few seconds ago

METER_2 Disconnected METER Device Nov 17, 2022 6:03 AM
1 Simulation running