

PUBLISH DATA TO IBM CLOUD

Date	13 November 2022
Team ID	PNT2022TMID46743
Project Name	Signs with smart connectivity for Better road safety
Maximum Marks	4 Marks

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Python publishd data.py - C:/Users/ELCOT/Desktop/Auxiliary Task/DEVELOP THE PYTHON SCRIPT/Python publishd data.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 = "ondwbf"
deviceType = "maheswari"
deviceId = "mahi"
authMethod = "token"
authToken = "123456789"

# 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)
```

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Python 3.7.0 Shell
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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/ELCOT/Desktop/Auxiliary Task/DEVELOP THE PYTHON SCRIPT/Python publishd data.py
2022-11-17 10:30:16,812 ibmiotf.device.Client INFO Connected successfully: diondwbf:maheswari:mahi
Published Temperature = 91 C Humidity = 89 % to IBM Watson
Published Temperature = 92 C Humidity = 79 % to IBM Watson
Published Temperature = 109 C Humidity = 70 % to IBM Watson
Published Temperature = 90 C Humidity = 85 % to IBM Watson
Published Temperature = 97 C Humidity = 61 % to IBM Watson
Published Temperature = 106 C Humidity = 61 % to IBM Watson
Published Temperature = 98 C Humidity = 94 % to IBM Watson
Published Temperature = 92 C Humidity = 71 % to IBM Watson
Published Temperature = 110 C Humidity = 82 % to IBM Watson
Published Temperature = 91 C Humidity = 82 % to IBM Watson
Published Temperature = 94 C Humidity = 71 % to IBM Watson
Published Temperature = 107 C Humidity = 91 % to IBM Watson
Published Temperature = 103 C Humidity = 70 % to IBM Watson
Published Temperature = 99 C Humidity = 90 % to IBM Watson
Published Temperature = 95 C Humidity = 94 % to IBM Watson
Published Temperature = 90 C Humidity = 77 % to IBM Watson
```

IBM Watson IoT Platform

mahibabe1310@gmail.com
ID: ondwbf

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>	mahe	Disconnected	mahes	Device	Nov 12, 2022 8:42 PM
▼	mahi	Connected	maheswari	Device	Nov 1, 2022 6:30 PM

Identity Device Information Recent Events State Logs

Device ID: mahi
Device Type: maheswari
Date Added: Nov 1, 2022 6:30 PM
Added By: mahibabe1310@gmail.com
Connection Status: **Connected**
Connection Time: Nov 17, 2022 10:30 AM
Client Address: 113.30.176.66 SecureToken

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IBM Watson IoT Platform

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ID: ondwbf

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▼	mahi	Connected	maheswari	Device	Nov 1, 2022 6:30 PM
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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":92,"Humid":71}	json	a few seconds ago
IoTSensor	{"temp":98,"Humid":94}	json	a few seconds ago
IoTSensor	{"temp":106,"Humid":61}	json	a few seconds ago
IoTSensor	{"temp":97,"Humid":61}	json	a few seconds ago
IoTSensor	{"temp":90,"Humid":85}	json	a few seconds ago