

Publish Data to the IBM Cloud

```
id2.py - C:\Users\Serveran\AppData\Local\Programs\Python\Python37\id2.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 = "hyogw4"
deviceType = "safesys"
deviceId = "Fire"
authMethod = "token"
authToken = "IMj7u0VbDi*!d7x8!"

# Initialize MQTT

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

while True:
    #Get Sensor Data from DHT11
    temp=random.randint(0,100)
    humid=random.randint(0,100)
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 [vs3.7.0:1ef9cc029], Jan 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
> RESTART: C:\Users\Serveran\AppData\Local\Programs\Python\Python37\id2.py =
2022-11-09 11:47:12.137 ibmiotf.device.Client INFO Connected successfully: shhyogw4@safesysFire
Published Temperature = 82 C Humidity = 66 % to IBM Watson
Published Temperature = 87 C Humidity = 68 % to IBM Watson
Published Temperature = 12 C Humidity = 52 % to IBM Watson
Published Temperature = 52 C Humidity = 3 % to IBM Watson
Published Temperature = 81 C Humidity = 23 % to IBM Watson
Published Temperature = 24 C Humidity = 6 % to IBM Watson
Published Temperature = 31 C Humidity = 44 % to IBM Watson
Published Temperature = 54 C Humidity = 40 % to IBM Watson
Published Temperature = 34 C Humidity = 93 % to IBM Watson
Published Temperature = 94 C Humidity = 27 % to IBM Watson
Published Temperature = 89 C Humidity = 74 % to IBM Watson
Published Temperature = 74 C Humidity = 44 % to IBM Watson
Published Temperature = 77 C Humidity = 11 % to IBM Watson
Published Temperature = 87 C Humidity = 66 % to IBM Watson
```

IBM Watson IoT Platform

athulraj.p.cse19@veltechmultitech.org
ID: hk2zwr

?

Browse

Action

Device Types

Interfaces

Search by Device ID

Device Simulator ☒

Add Device

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	
<input checked="" type="checkbox"/>	Fire	Disconnected	Safety	Device	Nov 10, 2022 6:51 PM	→ ...

Identity

Device Information

Recent Events

State

Logs

Device ID

Fire

Device Type

Safety

Date Added

Nov 10, 2022 6:51 PM

Added By

athulraj.p.cse19@veltechmultitech.org

Connection Status

Disconnected

Items per page 50

1-1 of 1 item

1 Simulation running

Activate Windows
Go to Settings to activate Windows.

IBM Watson IoT Platform

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<input checked="" type="checkbox"/>	Fire	Disconnected	Safety	Device	Nov 10, 2022 6:51 PM	→ ...

Identity

Device Information

Recent Events

State

The recent events listed show the live stream of data that is coming and going

Event	Value
eventflow	{"randomNumber":18,"temp":71,"Humid":36}
eventflow	{"randomNumber":69,"temp":11,"Humid":39}
eventflow	{"randomNumber":89,"temp":96,"Humid":29}
eventflow	{"randomNumber":72,"temp":100,"Humid":25}
eventflow	{"randomNumber":95,"temp":71,"Humid":31}

Device Type: Safety

Events 1

New event type

Event type name eventflow

Send

Schedule 1 Every Minute

Payload Specify the event payload in the editor window or by uploading a CSV file.

```
0 {  
1   "randomNumber": random(1,100),  
2   "temp": random(10, 100),  
3   "Humid": random(2, 50)  
4 }
```

Upload a CSV file

Activate Windows
Go to Settings to activate Windows.