

## PUBLISH DATA TO THE IBM CLOUD

Date	16 NOVEMBER 2022
Team ID	PNT2022TMID32982
Project Name	INDUSTRY-SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM
Maximum Marks	4 Marks

fgf.py - C:\Users\riyas M\Desktop\fgf.py (3.7.0)

```

import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "56axre"
deviceType = "raspberrypi"
deviceId = "123"
authMethod = "token"
authToken = "12345678"

# Initialize GPIO

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

try:
    deviceOptions = {'org': organization, 'type': deviceType, 'deviceid': deviceId, 'authmethod': authMethod, 'authToken': authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
    #.....
except Exception as e:
    print("Caught exception connecting device")
    sys.exit()

# Connect and send a datapoint "hello" with value
deviceCli.connect()

```

"Python 3.7.0 Shell"

```

Python 3.7.0 (tags/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\riyas M\Desktop\fgf.py =====
2022-11-15 20:54:56.140 ibmiotf.device.Client INFO Connected successfully: d:56axre:raspberrypi:123
Published Temperature = 2 C Humidity = 68 % to IBM Watson
Published Temperature = 58 C Humidity = 82 % to IBM Watson
Published Temperature = 93 C Humidity = 43 % to IBM Watson
Published Temperature = 89 C Humidity = 32 % to IBM Watson
Published Temperature = 44 C Humidity = 54 % to IBM Watson
Published Temperature = 75 C Humidity = 72 % to IBM Watson
Published Temperature = 32 C Humidity = 48 % to IBM Watson
Published Temperature = 31 C Humidity = 84 % to IBM Watson
Published Temperature = 36 C Humidity = 13 % to IBM Watson
Published Temperature = 68 C Humidity = 13 % to IBM Watson
Published Temperature = 100 C Humidity = 2 % to IBM Watson
Published Temperature = 77 C Humidity = 42 % to IBM Watson
Published Temperature = 3 C Humidity = 0 % to IBM Watson
Published Temperature = 76 C Humidity = 14 % to IBM Watson
Published Temperature = 85 C Humidity = 63 % to IBM Watson
Published Temperature = 92 C Humidity = 7 % to IBM Watson
Published Temperature = 36 C Humidity = 98 % to IBM Watson
Published Temperature = 33 C Humidity = 51 % to IBM Watson
Published Temperature = 27 C Humidity = 95 % to IBM Watson
Published Temperature = 54 C Humidity = 44 % to IBM Watson
Published Temperature = 52 C Humidity = 13 % to IBM Watson
Published Temperature = 71 C Humidity = 34 % to IBM Watson
Published Temperature = 48 C Humidity = 27 % to IBM Watson
Published Temperature = 35 C Humidity = 45 % to IBM Watson
Published Temperature = 56 C Humidity = 31 % to IBM Watson
Published Temperature = 12 C Humidity = 59 % to IBM Watson
Published Temperature = 34 C Humidity = 7 % to IBM Watson
Published Temperature = 12 C Humidity = 77 % to IBM Watson
Published Temperature = 92 C Humidity = 24 % to IBM Watson
Published Temperature = 34 C Humidity = 20 % to IBM Watson
Published Temperature = 73 C Humidity = 53 % to IBM Watson
Published Temperature = 83 C Humidity = 80 % to IBM Watson
Published Temperature = 94 C Humidity = 95 % to IBM Watson
Published Temperature = 95 C Humidity = 34 % to IBM Watson
Published Temperature = 91 C Humidity = 19 % to IBM Watson

```

IBM Watson IoT Platform

Device ID: 123, Status: Disconnected, Device Type: raspberrypi

Event	Value
detect	{"randomNumber":51,"temp":93,"hum":65}
detect	{"randomNumber":35,"temp":100,"hum":61}
detect	{"randomNumber":46,"temp":93,"hum":76}
detect	{"randomNumber":85,"temp":94,"hum":87}
detect	{"randomNumber":47,"temp":96,"hum":84}

Device Type: raspberrypi

Events: 1

Event type name: detect

Schedule: Every Minute

Payload:

```

{
  "randomNumber": random(0, 100),
  "temp": random(90, 100),
  "hum": random(60, 100)
}

```

Upload a CSV file