

## PUBLISH DATA TO IBM CLOUD

TEAMID	PNT2022TMID44536
PROJECT NAME	Signs With Smart Connectivity For Better Road Safety

PYTHON CODE:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
```

#Provide your IBM Watson Device Credentials

Organization ID 8dxkha

Device Type Sushmitha

Device ID Sushmitha

Authentication Method use-token-auth

Authentication Token yah&46&uqf!k4Rq!n+

# Initialize GPIO

```
temp=60
pulse=70
oxygen= 30
lat = 17
lon = 18
```

```
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    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

    data = {"d":{ 'temp': temp, 'pulse': pulse ,'oxygen': oxygen,"lat":lat,"lon":lon} }
    #print data
    def myOnPublishCallback():
        print ("Published Temperature = %s C" % temp, "Humidity = %s %" % pulse, "to IBM
Watson")

        success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
        if not success:
            print("Not connected to IoTF")
            time.sleep(1)

        deviceCli.commandCallback = myCommandCallback

# Disconnect the device and application from the cloud
deviceCli.disconnect()

```

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Device Types

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Add Device

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	{"temperature":89,"humidity":94}	json	a few seconds ago
event_1	{"temperature":8,"humidity":72}	json	a few seconds ago
event_1	{"temperature":36,"humidity":62}	json	a few seconds ago
event_1	{"temperature":46,"humidity":91}	json	a few seconds ago
event_1	{"temperature":79,"humidity":55}	json	a few seconds ago

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temperature

11:59

12:00

12:01

12:02

now

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