

PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

Team Id	PNT2022TMID25254
Project Name	Gas Leakage Monitoring and Alerting System for Industries

Python Code

```
import wiotp.sdk.device
import time
import random

myConfig = { "identity": { "orgId": "dlx6y3", "typeId": "gas", "deviceId": "gas_2"
}, "auth": { "token": "m(IoU(t9IBdIT-QuAH"
}
}

def myCommandCallback(cmd):
    m=cmd.data['randomNumber']
    client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
    client.connect()
    while True:
        gasAlert=random.randint(0,100)
        myData={'gasalert':gasAlert}
        client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
        print("Published data Successfully: %s", myData)
        client.commandCallback = myCommandCallback
        time.sleep(2)
        client.disconnect()
        print(*myData)
```

Python Code:

```
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = { "identity": { "orgId": "dixxy3", "typeId": "gas", "deviceId": "gas_2"
}, "auth": { "token": "m100t81AdIT-Quah"
}
}
def myCommandCallback(cmd):
    m=cmd.data['randomNumber']
    client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
    client.connect()
    while True:
        gasAlert=random.randint(0,100)
        myData={'gasAlert':gasAlert}
        client.publishEvent(eventId="status", msgformat="json", data=myData, qos=0, onPublish=None)
        print("Published data Successfully: %s" % myData)
        client.commandCallback = myCommandCallback
        time.sleep(2)
    client.disconnect()
    print("myData")
```

Python Output:

```
Published data Successfully: %s {'gasAlert': 1}
Published data Successfully: %s {'gasAlert': 1}
Published data Successfully: %s {'gasAlert': 1}
Published data Successfully: %s {'gasAlert': 0}
Published data Successfully: %s {'gasAlert': 0}
Published data Successfully: %s {'gasAlert': 1}
Published data Successfully: %s {'gasAlert': 1}
Published data Successfully: %s {'gasAlert': 0}
Published data Successfully: %s {'gasAlert': 1}
```

Watson Cloud IBM

Browse

Action

Device Types

Interfaces

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	{"propane":1260,"corbon_monoxide":67,"LPG":1...	json	a few seconds ago
event_1	{"propane":1510,"corbon_monoxide":97,"LPG":1...	json	a few seconds ago
event_1	{"propane":660,"corbon_monoxide":74,"LPG":32...	json	a few seconds ago
event_1	{"propane":826,"corbon_monoxide":25,"LPG":35...	json	a few seconds ago
event_1	{"propane":1955,"corbon_monoxide":45,"LPG":1...	json	a few seconds ago

1 Simulation running