

PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

TEAM ID	PNT2022TMID27112
PROJECT NAME	GAS LEAKAGE MONITORING & ALERTING SYSTEM
DATE	01 NOVEMBER 2022

```
#IBM Watson IOT Platform
```

```
#pip install wiotp-sdk
```

```
import wiotp.sdk.device
```

```
import time
```

```
import random
```

```
myConfig = {
```

```
    "identity": {
```

```
        "orgId": "j389m6",
```

```
        "typeId": "Device1",
```

```
        "deviceId": "1845"
```

```
    },
```

```
    "auth": {
```

```
        "token": "qdIIHUgQZlnES467LC"
```

```
    }
```

```
}
```

```
def myCommandCallback(cmd):
```

```
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
```

```
    m=cmd.data['command']
```

```
    if(m=="LIGHT ON"):
```

```
        print("*****///LIGHTS ARE ON*****")
```

```
    else:
```

```
        print("*****///LIGHTS ARE ON*****")
```

PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

```
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)

client.connect()

while True:

    temp=random.randint(0,125)

    hum=random.randint(0,100)

    haz=random.randint(0,100)

    pre=random.randint(0,100)

    myData={'temperature':temp, 'humidity':hum, 'Hazardousgas':haz, 'pressure':pre}

    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()
```