

PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

Date	11 November 2022
Team ID	PNT2022TMID18989
Project Name	Project - Gas Leakage Monitoring and Alerting System for Industries.

```
#IBM Watson IOT Platform
```

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

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

```
import time
```

```
import random
```

```
myConfig = {
```

```
    "identity": {
```

```
        "orgId": "btwix4",
```

```
        "typeId": "Nodemcu",
```

```
        "deviceId": "8682"
```

```
    },
```

```
    "auth": {
```

```
        "token": "Gas12345"
```

```
    }
```

```
}
```

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

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

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

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

```
client.connect()
```

```
while True:
```

```
    temp=random.randint(-20,125)
```

```
    hum=random.randint(0,100)
```

```
    pes=random.randint(0,100)
```

```
    haz=random.randint(0,100)
```

```
    myData={'temperature':temp,  
'humidity':hum,'pressure ':pes,'hazardousgas':haz}
```

```
    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()
```

WhatsApp XNextStep- T XIBM XIBM-Project XIBM-Project XGas Leakag XService Det XIBM Watson X

btwix4.internetofthings.ibmcloud.com/dashboard/devices/browse

logeswarantamil15@gmail.comID: btwix4

IBM Watson IoT Platform

BrowseActionDevice TypesInterfaces

Add Device

8682ConnectedNodemcuDeviceNov 17, 2022 9:03 PM

IdentityDevice InformationRecent EventsStateLogs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"temperature":26,"humidity":24,"pressure":63," ...	json	a few seconds ago
status	{"temperature":5,"humidity":74,"pressure":67,"h...	json	a few seconds ago
status	{"temperature":85,"humidity":94,"pressure":79," ...	json	a few seconds ago
status	{"temperature":15,"humidity":61,"pressure":42," ...	json	a few seconds ago
status	{"temperature":68,"humidity":57,"pressure":78," ...	json	a few seconds ago

1 Simulation running

Activate WindowsGo to Settings to activate Windows.

Desktop 29°C Mostly s... 07:45 PM