

PUBLISH DATA TO IBM CLOUD

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|---------------------|---|
| Team ID | PNT2022TMID15951 |
| Project Name | Gas Leakage Monitoring and AlertingSystem |
| Team members | Barani G Ashwini R Akshaya KS Abitha J |

```
projectipy - C:\Users\Anun K\Downloads\projectipy (3.7.4)
File Edit Format Run Options Window Help
#IBM Watson IoT Platform
#pip install wiotp-sdk
import wiotp.sdk
import time
import random
myConfig = {
    "identity": {
        "orgId": "m26rat",
        "typeId": "8880266",
        "deviceId": "12345"
    },
    "auth": {
        "token": "123456789"
    }
}
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

strings=""
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    temp=random.randint(0,100)
    if temp>80:
        string="Leakage detected Level =" +str(temp)
    else:
        string="No Leakage detected Level =" +str(temp)
    myData={"Status":string}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s" % myData)
    client.commandCallback = myCommandCallback
    time.sleep(5)
client.disconnect()
```

```
project1.py C:\Users\Arun K\Downloads\project1.py (3,74)
File Edit Format Run Options Window Help

#IBM Watson IoT Platform
#pip install wiotp-sdk
import wiotp.sdk
import time
import random

myConfig = {
    "identity": {
        "orgId": "m2cact",
        "typeId": "6889266",
        "deviceId": "12345"
    },
    "auth": {
        "token": "123456789"
    }
}

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

strings=""
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandler=
client.connect()

while True:
    temp=random.randint(0,100)
    if temp>80:
        string="Leakage detected Level "+str(temp)
    else:
        string="No Leakage detected Level "+str(temp)
    myData={"Status":string}
    client.publishEvent(eventId="status", msgFormat="json", data
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(5)
client.disconnect()
```

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:0000000, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help()", "copyright()", "credits()" or "license()" for more information.
>>>
===== RESTART: C:\Users\Arun K\Downloads\project1.py =====
2022-11-15 21:51:45.695 wiotp.sdk.device.client.DeviceClient INFO Connecte
d successfully. deviceId:688926612345
Published data Successfully: %s ('Status': 'Leakage detected Level ~91')
Published data Successfully: %s ('Status': 'No Leakage detected Level ~63')
Published data Successfully: %s ('Status': 'Leakage detected Level ~95')
Published data Successfully: %s ('Status': 'No Leakage detected Level ~35')
Published data Successfully: %s ('Status': 'Leakage detected Level ~91')
Published data Successfully: %s ('Status': 'No Leakage detected Level ~22')
Published data Successfully: %s ('Status': 'No Leakage detected Level ~56')
Published data Successfully: %s ('Status': 'No Leakage detected Level ~61')
>>>
```

IBM Watson IoT Platform

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

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

All Devices

Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

| Device ID | Status | Device Type | Class ID | Date Added | Descriptive Location | Added By | Device Class | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------|-------------------|----------------------|----------------------|-------------------------|--------------|-------|-------|--------|---------------|--------|---|------|-------------------|--------|---|------|-------------------|--------|---|------|-------------------|--------|---|------|-------------------|--------|--|------|-------------------|
| 12345 | Connected | ESP8266 | Device | Nov 15, 2022 9:24 PM | | ksakohaya2623@gmail.com | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>Identity</div><div>Device Information</div><div>Recent Events</div><div>State</div><div>Logs</div></div> <div>The recent events listed show the live stream of data that is coming and going from this device.</div> <table><thead><tr><th>Event</th><th>Value</th><th>Format</th><th>Last Received</th></tr></thead><tbody><tr><td>status</td><td>["Status": "No Leakage detected Level =25"]</td><td>json</td><td>a few seconds ago</td></tr><tr><td>status</td><td>["Status": "No Leakage detected Level =61"]</td><td>json</td><td>a few seconds ago</td></tr><tr><td>status</td><td>["Status": "No Leakage detected Level =56"]</td><td>json</td><td>a few seconds ago</td></tr><tr><td>status</td><td>["Status": "No Leakage detected Level =22"]</td><td>json</td><td>a few seconds ago</td></tr><tr><td>status</td><td>["Status": "Leakage detected Level =99"]</td><td>json</td><td>a few seconds ago</td></tr></tbody></table> | | | | | | | | Event | Value | Format | Last Received | status | ["Status": "No Leakage detected Level =25"] | json | a few seconds ago | status | ["Status": "No Leakage detected Level =61"] | json | a few seconds ago | status | ["Status": "No Leakage detected Level =56"] | json | a few seconds ago | status | ["Status": "No Leakage detected Level =22"] | json | a few seconds ago | status | ["Status": "Leakage detected Level =99"] | json | a few seconds ago |
| Event | Value | Format | Last Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| status | ["Status": "No Leakage detected Level =25"] | json | a few seconds ago | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| status | ["Status": "No Leakage detected Level =61"] | json | a few seconds ago | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| status | ["Status": "No Leakage detected Level =56"] | json | a few seconds ago | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| status | ["Status": "No Leakage detected Level =22"] | json | a few seconds ago | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| status | ["Status": "Leakage detected Level =99"] | json | a few seconds ago | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 54321 | Disconnected | arduino | Device | Oct 26, 2022 2:05 PM | | ksakohaya2623@gmail.com | |

21°C

Partly cloudy

Search

9:32 PM

11/15/2022