

## **GAS LEAKAGE MONITORING & ALERTING SYSTEM FOR INDUSTRIES**

PYTHON CODE TO PUBLISH DATA TO IBM

Team ID	PNT2022TMID21717
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": "yf0dyy ",
```

```
"typeId": "Kumaran ", "deviceId":"12345"
```

```
},
```

```
"auth": {
```

```
"token": "VJTDPRX@f&4Vuox8ms "
```

```
}
```

```
}
```

```
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:
```

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

```
temp=random.randint(0,100)
hum=random.randint(0,100)
pre=random.randint(0,100)
myData={'Hazardous Gas':gas, 'Temperature':temp, 'Humidity':hum, '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()
```