

SPRINT 2

TEAM ID	PNT2022TMID15087
PROJECT NAME	GAS LEAKAGE MONITORING AND ALTERING SYSTEM FOR INDUSTRIES

Setting the configuration details in the python code

```
PNT2022TMID15087.py - C:\Users\Ajay Ganesh\Desktop\PNT2022TMID15087.py (3.7.0)
File Edit Format Run Options Window Help

import json
import random
import wiotp.sdk.device
import time
import ibmiotf.application
import ibmiotf.device
import requests, json

myConfig = {
    "identity": {
        "orgId": "hib5xp",
        "typeId": "rasberryypi",
        "deviceId": "1234"
    },
    "auth": {
        "token": "abodefgh"
    }
}

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

while True:
    name= "PNT2022TMID15087"

    latitude= 11.055712
    longitude= 76.804089
    gas = random.randint(0,600)
    temperature=random.randint(20,40)
    humidity=random.randint(40,60)
    if (gas>300):
        alarm=1
    else:
        alarm=0

    mydata={'name': name, 'lat':latitude, 'lon':longitude, 'gas':gas, 'alarm':alarm, 'temp':temperature, 'hum':humidity}
    client.publishEvent(eventId="status", msgFormat="json", data=mydata, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ",mydata)
    time.sleep(10)

client.disconnect()
```

Configuration For
IBM Cloud

Sending data from python to IBM Cloud

```
===== RESTART: C:\Users\Ajay Ganesh\Desktop\PNT2022TMID15087.py =====
2022-11-19 17:30:48,829 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:hib5xp:rasberryypi:1234Data published to IBM IoT platform:
{'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 164, 'alarm': 0, 'temp': 20, 'hum': 53}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 478, 'alarm': 1, 'temp': 31, 'hum': 53}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 246, 'alarm': 0, 'temp': 26, 'hum': 60}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 26, 'alarm': 0, 'temp': 20, 'hum': 58}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 583, 'alarm': 1, 'temp': 37, 'hum': 59}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 251, 'alarm': 0, 'temp': 33, 'hum': 56}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 413, 'alarm': 1, 'temp': 31, 'hum': 44}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 576, 'alarm': 1, 'temp': 22, 'hum': 55}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 226, 'alarm': 0, 'temp': 24, 'hum': 50}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 419, 'alarm': 1, 'temp': 40, 'hum': 57}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 33, 'alarm': 0, 'temp': 21, 'hum': 41}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 539, 'alarm': 1, 'temp': 40, 'hum': 50}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 305, 'alarm': 1, 'temp': 23, 'hum': 45}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 147, 'alarm': 0, 'temp': 24, 'hum': 50}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 593, 'alarm': 1, 'temp': 38, 'hum': 42}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 296, 'alarm': 0, 'temp': 28, 'hum': 54}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 65, 'alarm': 0, 'temp': 33, 'hum': 60}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 36, 'alarm': 0, 'temp': 28, 'hum': 53}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 201, 'alarm': 0, 'temp': 28, 'hum': 53}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 449, 'alarm': 1, 'temp': 20, 'hum': 58}
Data published to IBM IoT platform: {'name': 'PNT2022TMID15087', 'lat': 11.055712, 'lon': 76.804089, 'gas': 597, 'alarm': 1, 'temp': 36, 'hum': 50}
```

Configuring IBM IoT Platform and sending data to IBM cloud:

IBM Watson IoT Platform

sumathikanimozhi@gmail.com
ID: hib5xp

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
status	{"name":"PNT2022TMID15087","lat":11.05571...	json	a few seconds ago
status	{"name":"PNT2022TMID15087","lat":11.05571...	json	a few seconds ago
status	{"name":"PNT2022TMID15087","lat":11.05571...	json	a few seconds ago
status	{"name":"PNT2022TMID15087","lat":11.05571...	json	a few seconds ago
status	{"name":"PNT2022TMID15087","lat":11.05571...	json	a few seconds ago

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1 Simulation running