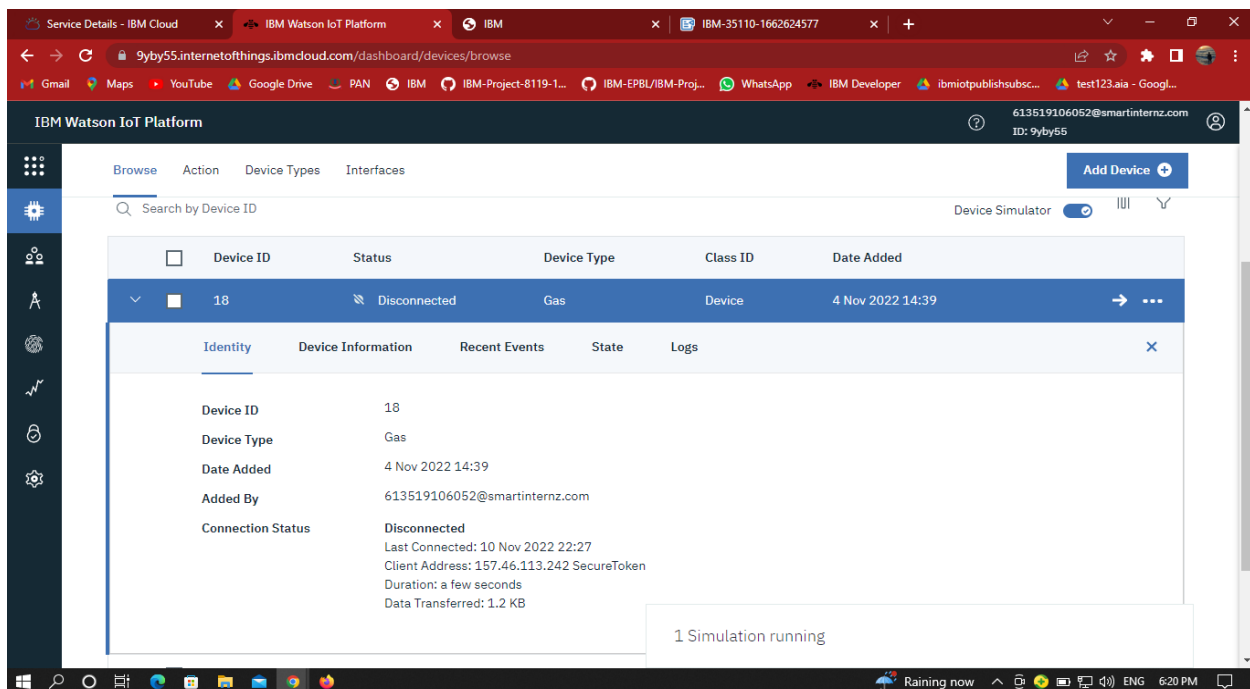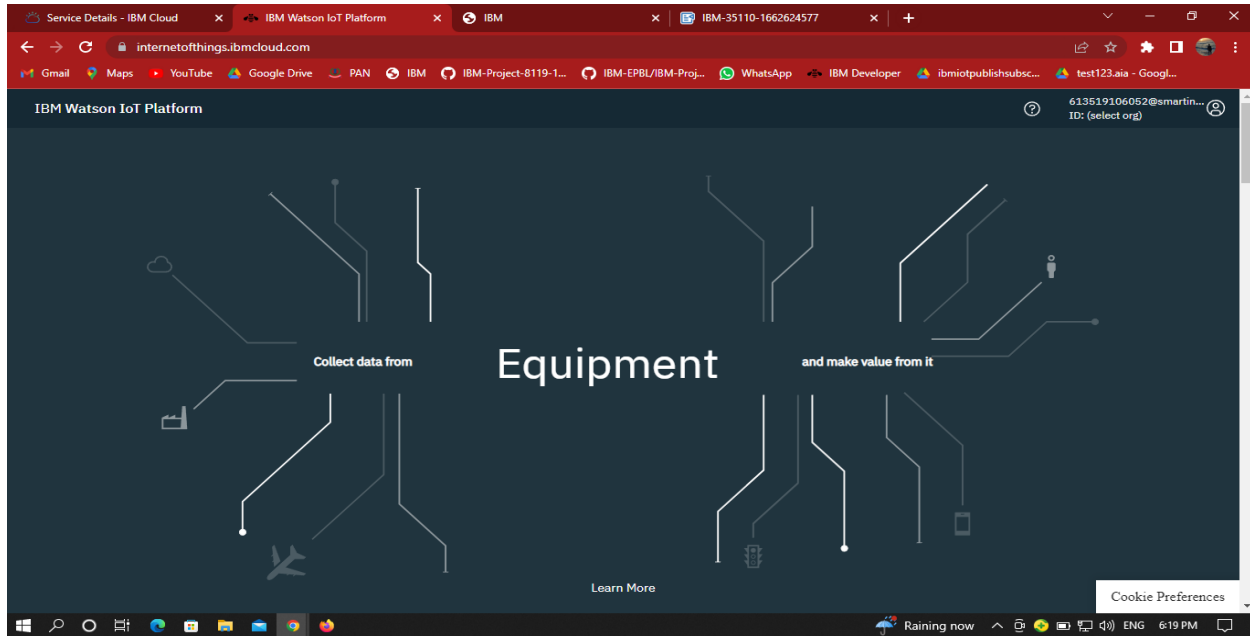# Project Development -Delivery of Sprint 1
Creating And Connecting IBM cloud to Python Code

Team ID	PNT2022TMID41307
Project Name	Gas Leakage Monitoring and Alerting System for Industries

IBM Cloud:

Python Code:

```python
#pip install wiotp-sdk

import wiotp.sdk.device

import time

import random

myConfig = {

    "identity":

    {

        "orgId": "9yby55",

        "typeId": "Gas",

        "deviceId":"18"

    },

    "auth":

    {

        "token": "zIbdsvljWkP@1S34*&"

    }

}

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

client.connect()


while True:

    TemperatureZ1=random.randint(0,100)

    HumidityZ1=random.randint(0,100)

    GasLevelZ1=random.randint(0,100)

    PressureZ1=random.randint(0,100)

    TemperatureZ2=random.randint(0,100)

    HumidityZ2=random.randint(0,100)

    GasLevelZ2=random.randint(0,100)

    PressureZ2=random.randint(0,100)
```

myData={'TemperatureZ1':TemperatureZ1,'HumidityZ1':HumidityZ1,'GasLevelZ1':GasLevelZ1,

'PressureZ1':PressureZ1,'TemperatureZ2':TemperatureZ2,'HumidityZ2':HumidityZ2,'GasLevelZ

2':GasLevelZ2,'PressureZ2':PressureZ2}

client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)

    print("Published data Successfully: %s", myData ,"to the IBM Platform")

    time.sleep(2)

client.disconnect()

Connecting IBM Cloud and Python Code

Python 3.7.4 (tags/v3.7.4:e09359112e, 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\sthir\Documents\IBM py\Py code z1,z2.py =====
====
2022-11-11 18:38:43,789   wiotp.sdk.device.client.DeviceClient   INFO   Connected successfully: d:9yby55:Gas:18
Published data Successfully: %s {'TemperatureZ1': 54, 'HumidityZ1': 17, 'GasLevelZ1': 45, 'PressureZ1': 18, 'TemperatureZ2': 0, 'HumidityZ2': 25, 'GasLevelZ2': 71, 'PressureZ2': 4} to the IBM Platform
Published data Successfully: %s {'TemperatureZ1': 81, 'HumidityZ1': 30, 'GasLevelZ1': 72, 'PressureZ1': 25, 'TemperatureZ2': 59, 'HumidityZ2': 94, 'GasLevelZ2': 10, 'PressureZ2': 86} to the IBM Platform
Published data Successfully: %s {'TemperatureZ1': 85, 'HumidityZ1': 53, 'GasLevelZ1': 79, 'PressureZ1': 42, 'TemperatureZ2': 81, 'HumidityZ2': 75, 'GasLevelZ2': 50, 'PressureZ2': 48} to the IBM Platform
Published data Successfully: %s {'TemperatureZ1': 93, 'HumidityZ1': 93, 'GasLevelZ1': 77, 'PressureZ1': 74, 'TemperatureZ2': 2, 'HumidityZ2': 68, 'GasLevelZ2': 21, 'PressureZ2': 27} to the IBM Platform
Published data Successfully: %s {'TemperatureZ1': 16, 'HumidityZ1': 93, 'GasLevelZ1': 55, 'PressureZ1': 51, 'TemperatureZ2': 42, 'HumidityZ2': 8, 'GasLevelZ2': 37, 'PressureZ2': 100} to the IBM Platform
Published data Successfully: %s {'TemperatureZ1': 19, 'HumidityZ1': 43, 'GasLevelZ1': 55, 'PressureZ1': 27, 'TemperatureZ2': 2, 'HumidityZ2': 51, 'GasLevelZ2': 92, 'PressureZ2': 5} to the IBM Platform
Published data Successfully: %s {'TemperatureZ1': 4, 'HumidityZ1': 72, 'GasLevelZ1': 91, 'PressureZ1': 56, 'TemperatureZ2': 54, 'HumidityZ2': 84, 'GasLevelZ2': 17, 'PressureZ2': 11} to the IBM Platform

IBM Watson IoT Platform

Browse   Action   Device Types   Interfaces

Search by Device ID

	Device ID	Status	Device Type
	18	Disconnected	Gas

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	{"TemperatureZ1":4,"HumidityZ1":72,"GasLevel...	json	a few seconds ago
event_1	{"TemperatureZ1":105,"HumidityZ1":80,"GasLev...	json	a few seconds ago
status	{"TemperatureZ1":19,"HumidityZ1":43,"GasLev...	json	a few seconds ago
event_1	{"TemperatureZ1":104,"HumidityZ1":61,"GasLev...	json	a few seconds ago
status	{"TemperatureZ1":16,"HumidityZ1":93,"GasLeve...	json	a few seconds ago