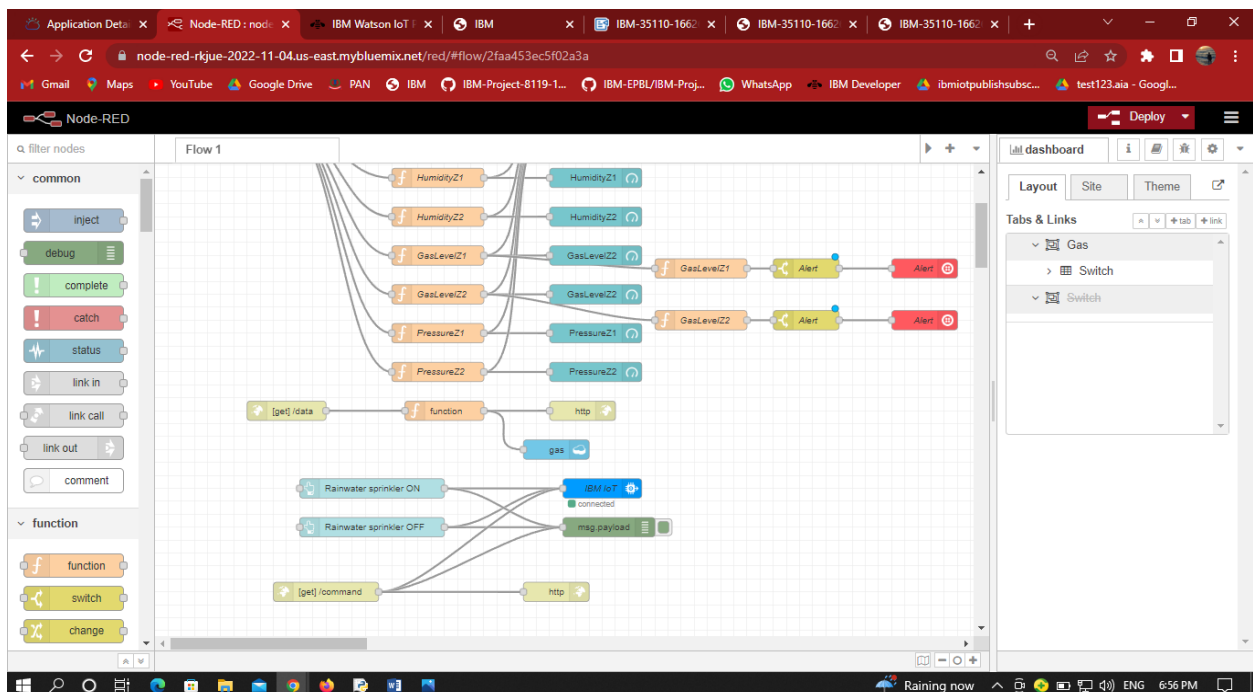
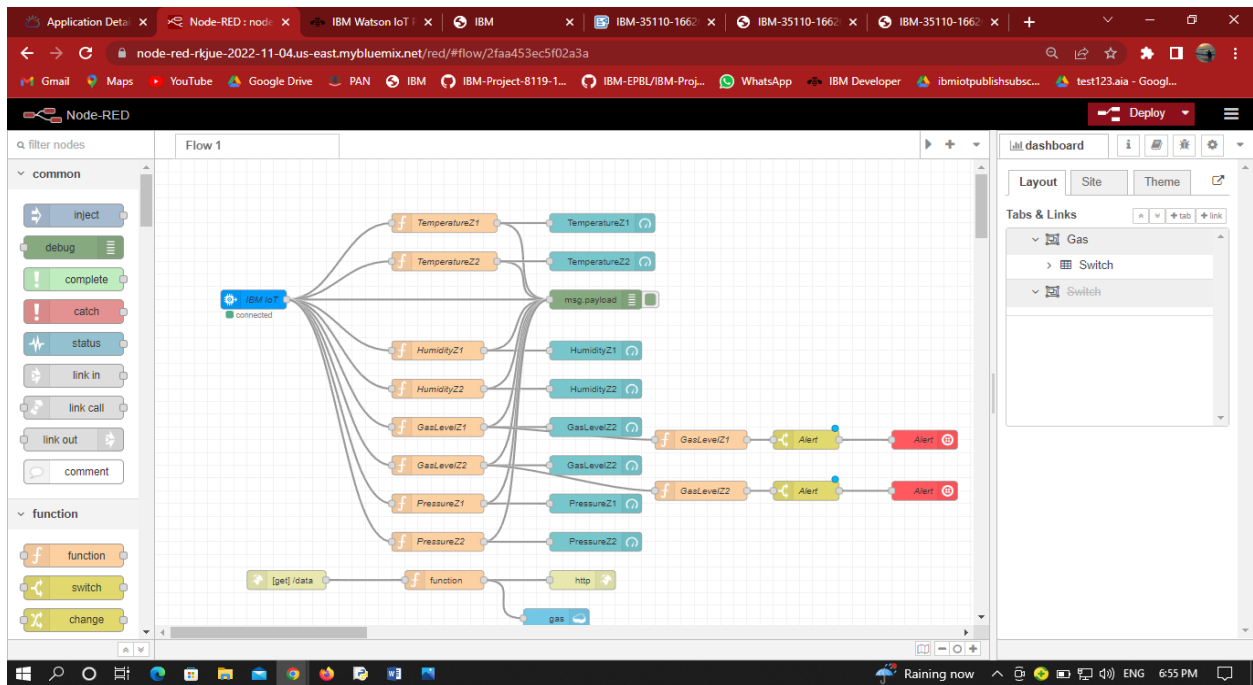


## Project Development -Delivery of Sprint 2

### Creating And Connecting IBM cloud to Python Code

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

#### Node-Red service:



## Connecting With IBM Cloud using IBM IoT node through API key:

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes a 'Generate API Key' button. The main content area displays a table of API keys for the application 'a-9yby55-1wiinikjtn'. The table has columns for Key, Description, Role, and Expires. Below the table, the 'API Key Information' tab is selected, showing details for the key 'a-9yby55-1wiinikjtn'.

Key	Description	Role	Expires
a-9yby55-1wiinikjtn	-	Standard Application	-

API Key Information		Access Control/Permissions	
Key	a-9yby55-1wiinikjtn	Last Edited By	613519106052@smartinternz.com
Description	-	Expires	Never
Date Added	4 Nov 2022 18:13		
Last Update	4 Nov 2022 18:13		

1 Simulation running

## Values from Python:

```
Py code z1,z2.py - C:\Users\sthir\Documents\IBM py\Py code z1,z2.py (3.7.4)
File Edit Format Run Options Window Help

#IBM Watson IoT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "9yby55",
        "typeId": "Gas",
        "deviceId": "18"
    },
    "auth": {
        "token": "z1bdsvljWkP@1S34*6"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="sprinkleron":
        print (" Rainwater sprinkler is ON")
    elif status=="sprinkleroff":
        print (" Rainwater sprinkler is OFF")
    else:
        print ("please send proper command")

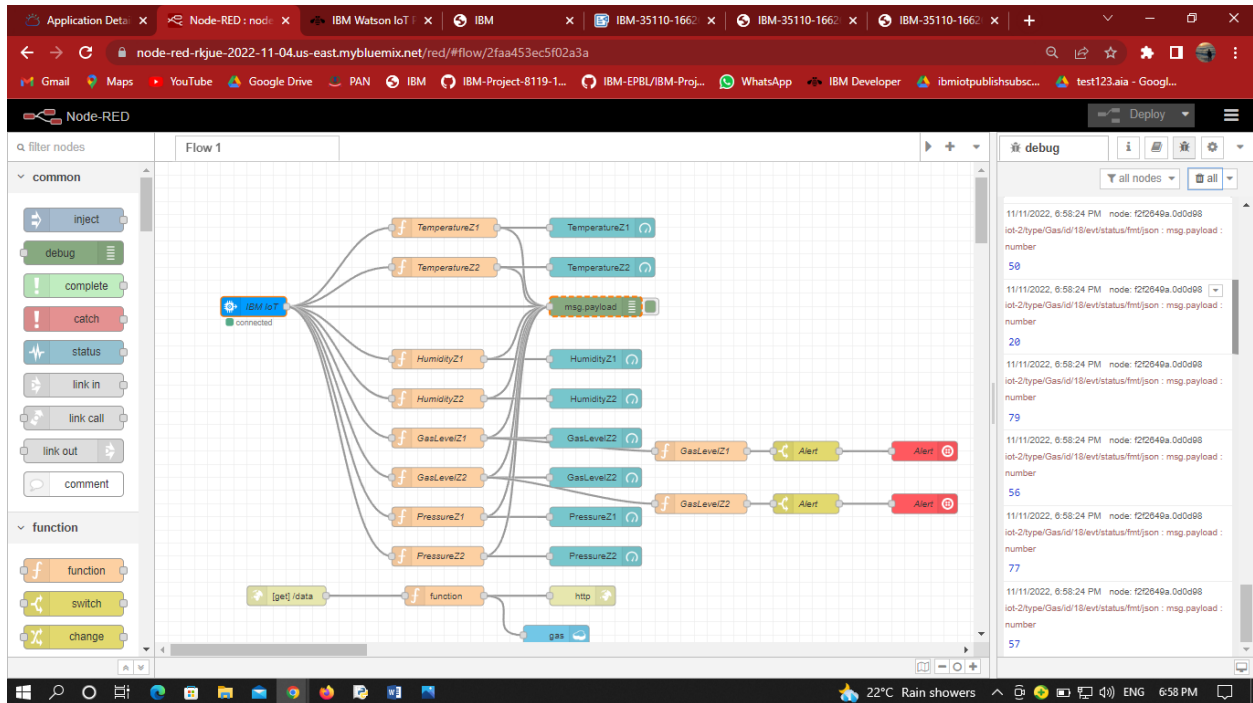
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

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)

Python 3.7.4 Shell
File Edit Shell Debug Options Window Help

Python 3.7.4 (tags/v3.7.4:09359112e, 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 18:57:45,921 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:9yby55:Gas:18
Published data Successfully: %s ('TemperatureZ1': 23, 'HumidityZ1': 18, 'GasLevelZ1': 99, 'PressureZ1': 59, 'TemperatureZ2': 25, 'HumidityZ2': 77, 'GasLevelZ2': 66, 'PressureZ2': 41) to the IBM Platform
Published data Successfully: %s ('TemperatureZ1': 18, 'HumidityZ1': 33, 'GasLevelZ1': 93, 'PressureZ1': 80, 'TemperatureZ2': 17, 'HumidityZ2': 11, 'GasLevelZ2': 61, 'PressureZ2': 92) to the IBM Platform
Published data Successfully: %s ('TemperatureZ1': 71, 'HumidityZ1': 62, 'GasLevelZ1': 9, 'PressureZ1': 72, 'TemperatureZ2': 95, 'HumidityZ2': 84, 'GasLevelZ2': 84, 'PressureZ2': 21) to the IBM Platform
Published data Successfully: %s ('TemperatureZ1': 43, 'HumidityZ1': 55, 'GasLevelZ1': 15, 'PressureZ1': 20, 'TemperatureZ2': 88, 'HumidityZ2': 26, 'GasLevelZ2': 99, 'PressureZ2': 72) to the IBM Platform
```

## Node-Red:



## Node-Red Dashboard:

