GAS LEAKAGE MONITORING&ALERTING SYSTEM FOR INDUSTRIES
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PYTHON CODE TO PUBLISH DATA TO IBM CLOUD:

```python
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = { "identity": { "orgId": "u98d7c", "typeId": "ESP8266 ",
"deviceId":"12345"
},"auth": { "token": "123456789 "
}
}
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, on
Publish=None)
print("Published data Successfully: %s", myData)
client.commandCallback = my Command Call backtime.sleep(2)
client.disconnect()
```