

PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

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Team ID	PNT2022TMID27071
Project Name	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 ",

"typId": "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)

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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()
```