

## PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

### Python Code:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time import random
myConfig = {
    "identity": {
        "orgId": "0vvv7i",
        "typeId": "987",
        "deviceId": "987_4"
    },
    "auth": {
        "token": "12345678"
    }
}

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:
    hazardous_gas=random.randint(-20,125)
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    pressure=random.randint(-20,125)
    myData={'temperature':temp, 'humidity':hum}
```

```

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()

```

## Watson Cloud IBM:

The screenshot shows the IBM Watson IoT Platform dashboard. On the left, there's a sidebar with various icons. The main area displays a device named '987\_4' which is connected. Below the device card, there are tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. Under the 'Recent Events' tab, a table lists five events of type 'event\_1' with random values for HazardousGas, temp, hum, and pressure. To the right of the device card, a modal window titled 'Device Type: 987' is open. It shows an 'Events' section with one entry for 'event\_1'. A 'Payload' section contains JSON code for generating random sensor data. The code is as follows:

```

0 [
1   "HazardousGas": random(0, 100),
2   "temp": random(10, 80),
3   "hum": random(80, 100),
4   "pressure": random(49, 100)
5 ]
6

```