

PUBLISH DATA TO IBM CLOUD

The screenshot shows the IBM Cloud IoT Dashboard interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons. The main content area displays details for a device with ID 123456, which is 'Connected' and of type 'NodeMCU'. Below the device header, there are tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, showing a table of events. The table has columns for 'Event', 'Value', 'Format', and 'Last Received'. The events listed are from an 'IoT Sensor' with a value of '{"latitude":11.7345,"longitude":78.202}' in 'json' format, received 'a few seconds ago'. A message at the bottom indicates '0 Simulations running'.

Event	Value	Format	Last Received
IoT Sensor	{"latitude":11.7345,"longitude":78.202}	json	a few seconds ago
IoT Sensor	{"latitude":11.7345,"longitude":78.202}	json	a few seconds ago
IoT Sensor	{"latitude":11.7345,"longitude":78.202}		
IoT Sensor	{"latitude":11.7345,"longitude":78.202}		

The screenshot shows the IBM Cloud IoT Dashboard interface, specifically the 'Logs' tab for device 123456. The top navigation bar and sidebar are consistent with the previous screenshot. The main content area displays details for the device, including its ID, status ('Connected'), type ('NodeMCU'), and date added ('Nov 15, 2022 2:06 PM'). Below the device header, there are tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Logs' tab is active, showing two sections: 'Diagnostic Logs' and 'Connection Logs'. The 'Diagnostic Logs' section has a table with columns for 'Severity', 'Message', and 'Timestamp'. The 'Connection Logs' section has a table with columns for 'Message' and 'Timestamp'. The connection logs show three entries: 'Token auth succeeded: ClientID='d:gp23...', 'Closed connection. The connection was cl...', and 'Token auth succeeded: ClientID='d:gp23...'. A message at the bottom indicates '0 Simulations running'.

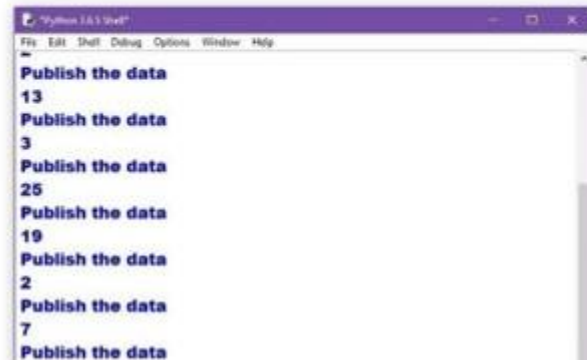
Severity	Message	Timestamp
----------	---------	-----------

Message	Timestamp
Token auth succeeded: ClientID='d:gp23...	Nov 15, 2022 7:52 PT
Closed connection. The connection was cl...	Nov 15, 2022 7:52 PT
Token auth succeeded: ClientID='d:gp23...	Nov 15, 2022 7:51 PT

```
import paho.mqtt.client as paho
def on_subscribe(client,userdata,mid,granted_qos):
    print("subscriber:" + str(mid)+str(granted_qos))

def on_message(client,userdata,msg):
    print(msg.topic + " " + str(msg.qos) + " " + str(msg.payload))

client = paho.Client()
client.on_subscribe = on_subscribe
client.on_message = on_message
client.connect("broker.mqttdashboard.com", 1883)
client.subscribe("iottopic",qos=1)
client.loop_forever()
```



```
Python 3.6.3 Shell
File Edit Shell Debug Options Window Help
Publish the data
13
Publish the data
3
Publish the data
25
Publish the data
19
Publish the data
2
Publish the data
7
Publish the data
```

Program :

#IBM Watson IOT Platform

#pip install wiotp-sdk

```

import
wiotp.sdk
.device
import
time

import random

myConfig = { "identity":
{
    "orgId": "hj5fmy",
    "typeId": "NodeMCU",
    "deviceId": "12345" },
    "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:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    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()

```