TEAM ID	PNT2022TMID11010
PROJECT NAME	Smart Waste Management System for Metropolitan Cities

Publish Data to the IBM Cloud

```
#IBM Watson IOT

Platform#pip install

wiotp-sdk import

wiotp.sdk.device

import time

import random

myConfig = {

"identity":

{

"orgId": "iufdwo",

"typeId": "ESP32_Controller",

"deviceId":"BME280_Sensor" },

"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:

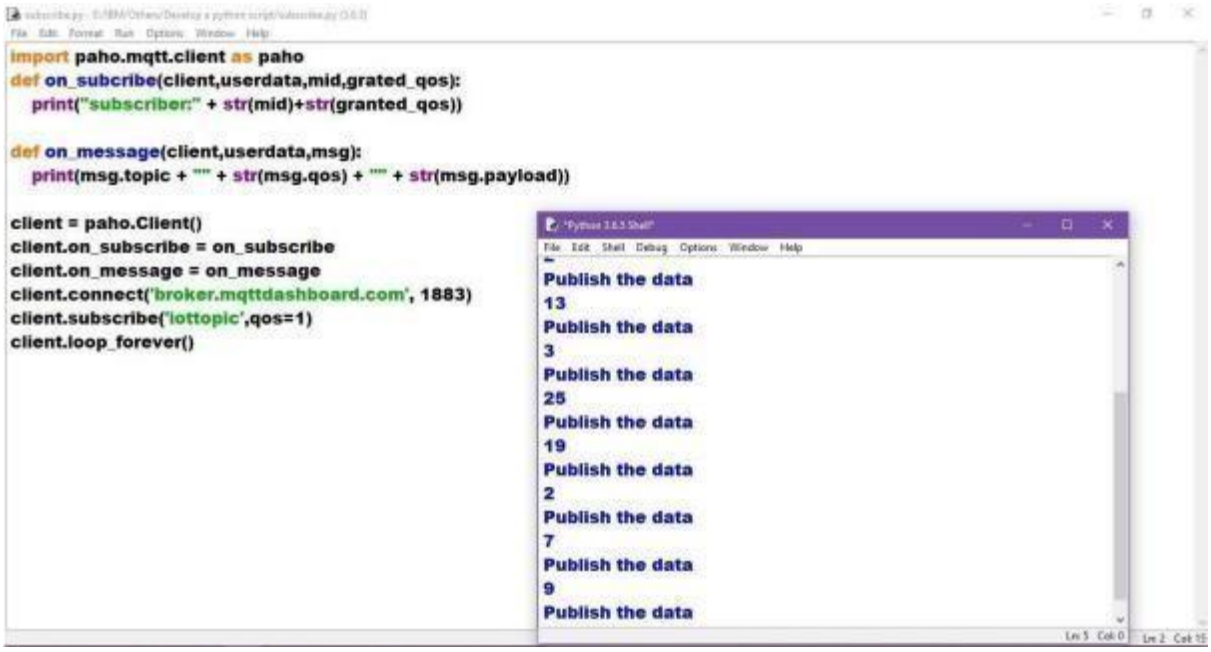
temp=random.randint(-20,125) hum=random.randint(0,100)

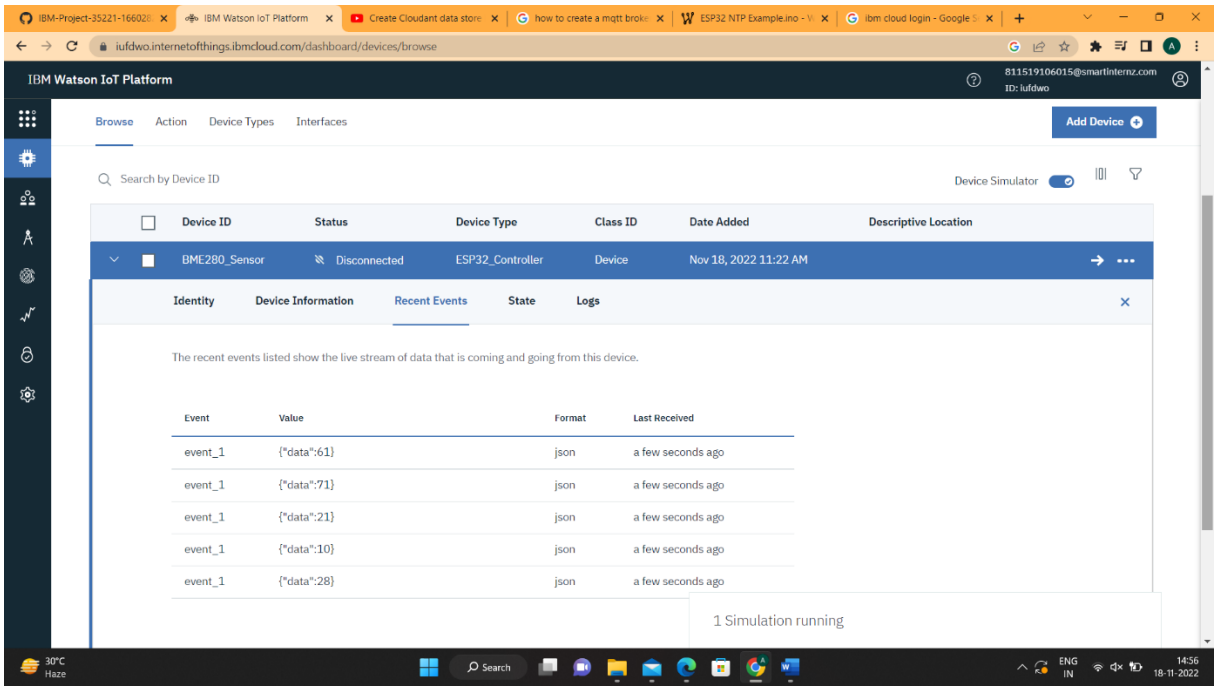
myData={'temperature':temp, 'humidity':hum}

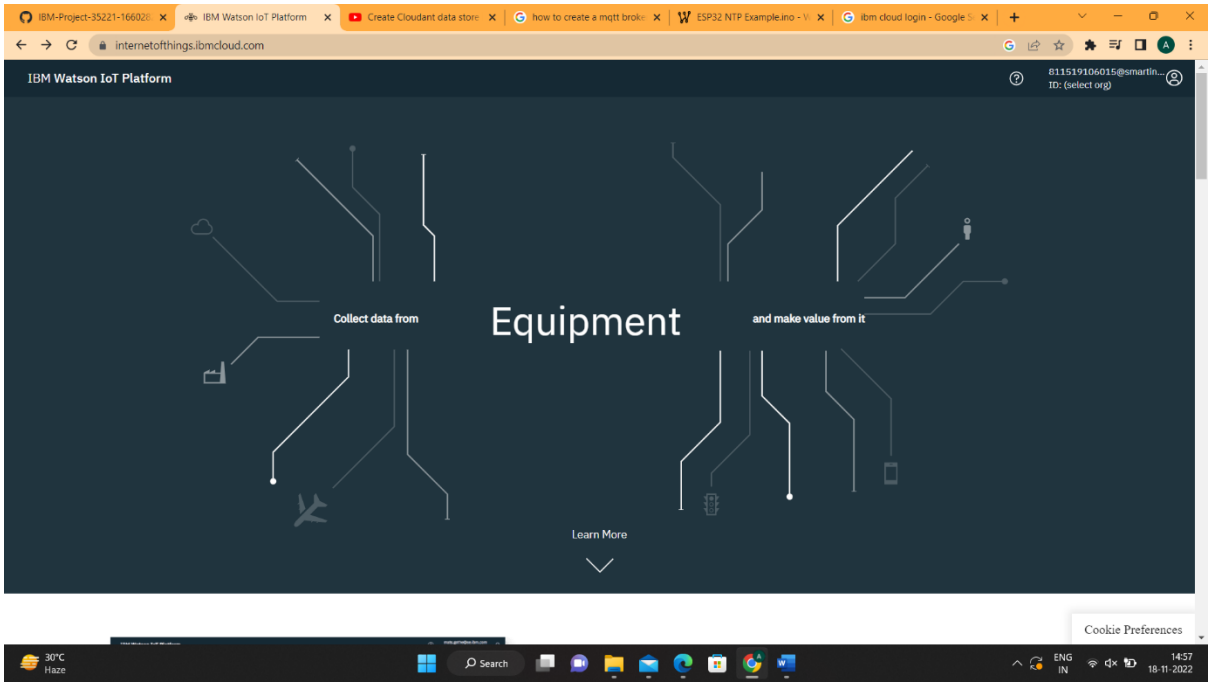
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,onPublish=None)

print("Published data Successfully: %s", myData) client.commandCallback = myCommandCallback

time.sleep(2) client.disconnect()


import paho.mqtt.client as paho
def on_subcribe(client,userdata,mid,grated_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()
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
9
Publish the data


IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Add Device
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
BME280_Sensor
Disconnected
ESP32_Controller
Device
Nov 18, 2022 11:22 AM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
event_1 {"data":61} json a few seconds ago
event_1 {"data":71} json a few seconds ago
event_1 {"data":21} json a few seconds ago
event_1 {"data":10} json a few seconds ago
event_1 {"data":28} json a few seconds ago
1 Simulation running


IBM-Project-35221-166026
IBM Watson IoT Platform
Create Cloudant data store
how to create a mqtt broke
ESP32 NTP Example.ino - V
ibm cloud login - Google Se
internetofthings.ibmcloud.com
IBM Watson IoT Platform
811519106015@smartin...
ID: (select org)
Collect data from
Equipment
and make value from it
Learn More
Cookie Preferences
30°C
Haze
Search
ENG
IN
14:57
18-11-2022