

Publish Data to the IBM Cloud

Team ID	PNT2022TMID32675
Project Name	SmartWasteManagementSystemFor MetropolitanCities

PYTHON SCRIPT :

```
import json
import collections
import time
myConfig = {
    "identity" : {
        "orgId" : "crilat",
        "typeId" : "NodeMCU",
        "deviceId" : "12345"
    },
    "auth":{
        "token":"12345678"
    }
}
```

```
client = wiotp.sdk.device.DeviceClient(config=myConfig ,logHandlers=None)
client.connect()
while True:
```

```
    #Dumster location Thanjavur Big Temple
    latitude = 10.7828
    longitude = 79.1318
    weight=0
```

```
    #dumsterLocation SARANATHAN COLLEGE OF ENGINEERING
    latitude = 10.7560
    longitude = 78.6513
    weight=57
```

```
    #dumsterLocation Trichy central bus stand
    latitude = 10.798523
    longitude = 78.680381
    weight=80
```

```
    #dumsterLocation Thanjavur new bustand
    latitude = 10.749894
    longitude = 79.112159
    weight=60
```

```
    myData = {'latitude' :latitude, 'longitude':longitude,'weight':weight}
    client.publishEvent(eventId="status",msgFormat="json",data=myData,qos=0,onPublish=None)
    print("Data published to IBM IoT platform : ",myData)
    time.sleep(20)
client.disconnect()
```

OUTPUT:

```
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE JUPYTER

(base) sivu@Sivas-MacBook-Pro vsCodeUI % python smart.py
2022-11-19 14:33:29,306 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:cri1at:NodeMCU:12345
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
Data published to IBM IoT platform : {'latitude': 10.756, 'longitude': 78.6513, 'weight': 57}
```

DATA IN IBM CLOUD PLATFORM:

IBM Watson IoT Platform

813819104095@smartintemz.com
ID: cri1at

Browse Action Device Types Interfaces

Add Device

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Connected	NodeMCU	Device	17 Nov 2022 14:46	

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
status	{"latitude":10.756,"longitude":78.6513,"weight":...	json	a few seconds ago
status	{"latitude":10.756,"longitude":78.6513,"weight":...	json	a few seconds ago
status	{"latitude":10.756,"longitude":78.6513,"weight":...	json	a few seconds ago
status	{"latitude":10.756,"longitude":78.6513,"weight":...	json	a minute ago
status	{"latitude":10.756,"longitude":78.6513,"weight":...	json	a minute ago

0 Simulations running