

## Publish Data to IBM Cloud

Team ID	PNT2022TMID47939
Project Name	Smart waste management system for metropolitan cities

Step 1: In the python script give the IBM credentials like org id, device type, etc. to connect to IBM cloud

Step2: Open your cloud account and open Watson platform

Step 3: In the specified Device Type mentioned in python script shows connected

Step 4: Then click on Recent Events and observe the Output data

## Screenshot:

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various platform features. The main content area shows a device named 'abcd' with ID '12345', which is 'Connected'. Below this, the 'Recent Events' tab is selected, displaying a table of live data events.

Event	Value	Format	Last Received
IoTSensor	{"temp":98,"Humid":66}	json	a few seconds ago
IoTSensor	{"temp":110,"Humid":100}	json	a few seconds ago
IoTSensor	{"temp":96,"Humid":73}	json	a few seconds ago
IoTSensor	{"temp":100,"Humid":83}	json	a few seconds ago

Command Prompt

```
C:\Users\HP>ibmiotf
'ibmiotf' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\HP>pip install ibmiotf
Requirement already satisfied: ibmiotf in c:\users\hp\appdata\local\programs\python\python37\lib\site-packages (0.4.0)
Requirement already satisfied: iso8601>=0.1.12 in c:\users\hp\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (1.1.0)
Requirement already satisfied: pytz>=2017.3 in c:\users\hp\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (2022.5)
Requirement already satisfied: paho-mqtt>=1.3.1 in c:\users\hp\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (1.6.1)
Requirement already satisfied: requests>=2.18.4 in c:\users\hp\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (2.28.1)
Requirement already satisfied: requests_toolbelt>=0.8.0 in c:\users\hp\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (0.10.1)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\hp\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (2.1.1)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\hp\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (2022.9.24)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\hp\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (1.26.12)
Requirement already satisfied: idna<4,>=2.5 in c:\users\hp\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (3.4)

[notice] A new release of pip available: 22.3 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\HP>
```

```
try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId}
    deviceCli = ibmiotf.device.Client(deviceOptions)
    #.....

except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
    sys.exit()
```

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Type here to search

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