

## **PUBLISH DATA TO THE IBM CLOUD**

TEAM ID	PNT2022TMID14057
PROJECT NAME	Signs with Smart Connectivity for Better Road Safety

### **STEPS TO PUBLISH DATA TO IBM CLOUD:**

**STEP-1:** Sign in to the created IBM IoT platform.

**STEP-2:** Select organisation from drop down in the right top corner.

**STEP-3:** Click on to add device and enter the device type and deviceid.


**STEP-4:** Click next until you get the device credentials which are the device type, device id, authentication method and authentication token.

**STEP-5:** Enter all those credentials in the python code and import `ibmiotf.application` and `ibmiotf.device` libraries.

**STEP-6:** Create data in json format and enter syntax that pushes the data to IBM IoT platform

**STEP-7:** The data is displayed in the corresponding device under the RECENT EVENTS tab.

## CODE SPECIFIATIONS:

 PROJECTFINALDND.py - D:\1ibm\PROJECTFINALDND.py (3.7.0)

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```
import requests #importing a library
import json
import ibmiotf.application
import ibmiotf.device
import time
import random
import sys
```

```
# watson device details
```

```
organization = "2s7yy7"
devicType = "project"
deviceId = "projectid"
authMethod= "token"
authToken= "projecttoken"
```

```
-----
```

```
Temp= data['main']['temp']
Humd= data['main']['humidity']
data= {'temp':Temp,'humid':Humd}
dist=random.randint(0,20)
dis={'dista':dist}
```

```
success=deviceCli.publishEvent ("IoTSensor","json",insta,qos=0,on_publish= myOnPublishCallback)
success=deviceCli.publishEvent ("IoTSensor","json",data,qos=0,on_publish= myOnPublishCallback)
success=deviceCli.publishEvent ("IoTSensor","json",warn,qos=0,on_publish= myOnPublishCallback)
success=deviceCli.publishEvent ("IoTSensor","json",dis,qos=0,on_publish= myOnPublishCallback)
```

# IBM IoT WATSON PLATFORM:

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's details, including its 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, displaying a table of events received from the device. The events are listed in a table with columns for Event, Value, Format, and Last Received. The events include 'stop', 'dista:4', 'alert:PLEASE SLOW DOWN!!!!!!', and 'temp:300.14,humid:89'. A status message at the bottom indicates '1 Simulation running'.

Event	Value	Format	Last Received
IoTSensor	{"inst":"stop"}	json	a few seconds ago
IoTSensor	{"dista":4}	json	a few seconds ago
IoTSensor	{"alert":"PLEASE SLOW DOWN!!!!!!"}	json	a few seconds ago
IoTSensor	{"temp":300.14,"humid":89}	json	a few seconds ago
IoTSensor	{"inst":"stop"}		

1 Simulation running