

PUBLISH DATA TO THE IBM CLOUD

TEAM ID	PNT2022TMID04551
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 device id.


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 SPECIFICTIONS:

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

File Edit Format Run Options Window Help

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

```
# watson device details
```

```
organization = "2s7yy7"
devicetype = "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:

IBM

Easy to use Online IDE

Node-RED : node

Service Details -

IBM Watson IoT Platform

pushing data into cloud

ModuleNotFoundError

No module name

2twix2.internetofthings.ibmcloud.com/dashboard/devices/drilldown/MCU:NODEMCU?returnTo=/devices/browse

aswiin.t@gmail.com
ID: 2twix2

Device Drilldown - NODEMCU

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

Added By

aswiin.t@gmail.com

Connection Status

Connected

Connection Time: 17 Nov 2022 15:35

Client Address: 157.46.114.224 SecureToken

Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"temperature":116,"humidity":21}	json	a few seconds ago
status	{"temperature":-2,"humidity":74}	json	a few seconds ago
status	{"temperature":86,"humidity":81}	json	a few seconds ago
status	{"temperature":78,"humidity":92}	json	a few seconds ago
status	{"temperature":42,"humidity":18}	json	a few seconds ago