

# Publish data to the IBM Cloud

Team ID	PNT2022TMID33212
Project Name	Signs With Smart Connectivity For Better Road Safety

IBM Watson IoT Platform

o3es16.internetofthings.ibmcloud.com/dashboard/devices/browse

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IBM Watson IoT Platform

Browse Action Device Types Interfaces

Device ID	Status	Device Type
HAYAN24id	Connected	HAYAN24

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
IoTSensor	{"temp":99,"Humid":82}	json	a few seconds ago
IoTSensor	{"temp":105,"Humid":100}	json	a few seconds ago
IoTSensor	{"temp":110,"Humid":77}	json	a few seconds ago
IoTSensor	{"temp":107,"Humid":94}	json	a few seconds ago
IoTSensor	{"temp":92,"Humid":65}	json	a few seconds ago

Python 3.7.0 Shell

File Edit Shell Debug Options Window Help

.PY

2022-11-16 21:30:05,551 ibmiotf.device.Client INFO Conn

lly: d:o3es16:HAYAN24:HAYAN24id

Published Temperature = 95 C Humidity = 83 % to IBM Watson

Published Temperature = 106 C Humidity = 79 % to IBM Watson

Published Temperature = 94 C Humidity = 68 % to IBM Watson

Published Temperature = 91 C Humidity = 68 % to IBM Watson

Published Temperature = 104 C Humidity = 70 % to IBM Watson

Published Temperature = 95 C Humidity = 68 % to IBM Watson

Published Temperature = 97 C Humidity = 98 % to IBM Watson

Published Temperature = 97 C Humidity = 77 % to IBM Watson

Published Temperature = 91 C Humidity = 90 % to IBM Watson

Published Temperature = 95 C Humidity = 72 % to IBM Watson

Published Temperature = 94 C Humidity = 83 % to IBM Watson

Published Temperature = 107 C Humidity = 80 % to IBM Watson

Published Temperature = 92 C Humidity = 82 % to IBM Watson

Published Temperature = 109 C Humidity = 93 % to IBM Watson

Published Temperature = 99 C Humidity = 64 % to IBM Watson

Published Temperature = 98 C Humidity = 95 % to IBM Watson

Published Temperature = 110 C Humidity = 74 % to IBM Watson

Published Temperature = 104 C Humidity = 79 % to IBM Watson

Published Temperature = 97 C Humidity = 63 % to IBM Watson

Published Temperature = 94 C Humidity = 66 % to IBM Watson

Published Temperature = 107 C Humidity = 75 % to IBM Watson

Published Temperature = 106 C Humidity = 66 % to IBM Watson

Published Temperature = 95 C Humidity = 86 % to IBM Watson

Published Temperature = 97 C Humidity = 90 % to IBM Watson

Published Temperature = 106 C Humidity = 96 % to IBM Watson

Published Temperature = 96 C Humidity = 61 % to IBM Watson

Published Temperature = 105 C Humidity = 83 % to IBM Watson

Published Temperature = 104 C Humidity = 91 % to IBM Watson

Published Temperature = 95 C Humidity = 83 % to IBM Watson

Published Temperature = 103 C Humidity = 82 % to IBM Watson

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python to ibm cloud.py - C:/Users/HP/AppData/Local/Programs/Python/Python37/python to ibm cloud.py (3.7.0)

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```
import sys
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "o3esl6"
deviceType = "HAYAN24"
deviceId = "HAYAN24id"
authMethod = "token"
authToken = "hayanthika2411"

# Initialize GPIO

def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="lighton":
        print ("led is on")
    elif status == "lightoff":
        print ("led is off")
    else :
        print ("please send proper command")
try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth": authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
    #.....
except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
    sys.exit()

# Connect and send a datapoint "hello" with value "world" into the cloud as an event
deviceCli.connect()

while True:
    #Get Sensor Data from DHT11
    temp=random.randint(90,110)
    Humid=random.randint(60,100)
```

Python 3.7.0 Shell

File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32  
Type "copyright", "credits" or "license()" for more information.

>>>  
RESTART: C:/Users/HP/AppData/Local/Programs/Python/Python37/python to ibm cloud

.PY  
2022-11-16 21:30:05,551 ibmiotf.device.Client INFO Connected successfully:  
lly: d:o3esl6:HAYAN24:HAYAN24id

```
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