

DEVELOP A PYTHON SCRIPT AND PUSH DATA TO CLOUD

Team ID	PNT2022TMID18996
Project Name	Industry Specific Intelligence Fire Management System

PYTHON CODE:

```

Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> #IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "1zfy5b",
        "typeId": "nodemcu",
        "deviceId": "12345"
    },
    "auth": {
        "token": "sIcD!z7(@fMvLK2fEC"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()

```

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OUTPUT:

```
C:\WINDOWS\py.exe
Published data Successfully: %s {'temperature': -8, 'humidity': 68}
Published data Successfully: %s {'temperature': 2, 'humidity': 77}
Published data Successfully: %s {'temperature': -3, 'humidity': 83}
Published data Successfully: %s {'temperature': 20, 'humidity': 95}
Published data Successfully: %s {'temperature': 118, 'humidity': 37}
Published data Successfully: %s {'temperature': 12, 'humidity': 36}
Published data Successfully: %s {'temperature': 57, 'humidity': 62}
Published data Successfully: %s {'temperature': 0, 'humidity': 53}
Published data Successfully: %s {'temperature': 76, 'humidity': 12}
Published data Successfully: %s {'temperature': 51, 'humidity': 8}
Published data Successfully: %s {'temperature': 125, 'humidity': 92}
Published data Successfully: %s {'temperature': 0, 'humidity': 87}
Published data Successfully: %s {'temperature': 71, 'humidity': 7}
Published data Successfully: %s {'temperature': 52, 'humidity': 62}
Published data Successfully: %s {'temperature': 121, 'humidity': 89}
Published data Successfully: %s {'temperature': 57, 'humidity': 85}
Published data Successfully: %s {'temperature': 30, 'humidity': 89}
Published data Successfully: %s {'temperature': 88, 'humidity': 54}
Published data Successfully: %s {'temperature': 44, 'humidity': 47}
Published data Successfully: %s {'temperature': 80, 'humidity': 46}
Published data Successfully: %s {'temperature': 45, 'humidity': 64}
Published data Successfully: %s {'temperature': 67, 'humidity': 72}
Published data Successfully: %s {'temperature': 63, 'humidity': 83}
Published data Successfully: %s {'temperature': 34, 'humidity': 78}
Published data Successfully: %s {'temperature': 30, 'humidity': 69}
Published data Successfully: %s {'temperature': 37, 'humidity': 99}
Published data Successfully: %s {'temperature': 77, 'humidity': 91}
Published data Successfully: %s {'temperature': 116, 'humidity': 85}
Published data Successfully: %s {'temperature': 25, 'humidity': 49}
Published data Successfully: %s {'temperature': 15, 'humidity': 74}
Published data Successfully: %s {'temperature': -3, 'humidity': 61}
Published data Successfully: %s {'temperature': 37, 'humidity': 24}
Published data Successfully: %s {'temperature': 115, 'humidity': 89}
Published data Successfully: %s {'temperature': 12, 'humidity': 84}
Published data Successfully: %s {'temperature': 49, 'humidity': 76}
Published data Successfully: %s {'temperature': 53, 'humidity': 93}
Published data Successfully: %s {'temperature': 59, 'humidity': 70}
Published data Successfully: %s {'temperature': 107, 'humidity': 61}
Published data Successfully: %s {'temperature': 5, 'humidity': 69}
Published data Successfully: %s {'temperature': 0, 'humidity': 28}
Published data Successfully: %s {'temperature': 67, 'humidity': 45}
Published data Successfully: %s {'temperature': 118, 'humidity': 2}
Published data Successfully: %s {'temperature': 3, 'humidity': 36}
```

