

PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

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Team ID	PNT2022TMID26635
Project Name	IoT Based Smart Crop Protection System for Agriculture

```
#IBM Watson IOT Platform
```

```
#pip install wiotp-sdk
```

```
import wiotp.sdk.device
```

```
import time
```

```
import random
```

```
myConfig = {  
    "identity": {  
        "orgId": "995kq7",  
        "typeId": "Test_Device_Type",  
        "deviceId": "26635"  
    },  
    "auth": {  
        "token": "o3d471A?EzrQoOU3Y_"  
    }  
}
```

```
def myCommandCallback(cmd):  
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])  
    m=cmd.data['command']  
    if(m=="MOTOR ON"):  
        print("The Motor is ON")  
    else:  
        print("The Motor is OFF")
```

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

while True:

temp=random.randint(-20,125)

hum=random.randint(0,100)

moist=random.randint(0,100)

myData={'temperature':temp, 'humidity':hum, 'soil_moisture':moist}

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()