

# DEVELOP THE PYTHON SCRIPT

Date	10 November 2022
Team ID	PNT2022TMID20612
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT

We are getting temperature and heart rate of worker as input through the beacon scanner (python code)

## Publishing the python script

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "6yafo",
        "typeId": "Sprint1",
        "deviceId": "SprintID"
    },
    "auth": {
        "token": "sW(iQhEK*t)4!jgrjD"
    }
}

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(0,50)
    heart=random.randint(60,100)
    myData={'temperature':temp, 'heartrate':heart}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(5)
client.disconnect()
```

Sprint1.py - C:\Users\user\Desktop\Arvin\Sprint1.py (3.7.0)

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```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "6yafic",
        "typeId": "Sprint1",
        "deviceId": "SprintID"
    },
    "auth": {
        "token": "sW(iQhEK*t)4!jgrjD"
    }
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client.disconnect()
```

Python 3.7.0 Shell

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```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\user\Desktop\Arvin\Sprint1.py =====
2022-11-10 14:51:02,276 wiotp.sdk.device.client.DeviceClient INFO Connecte
d successfully: d:6yafic:Sprint1:SprintIDPublished data Successfully: %s
{'temperature': 14, 'heartrate': 74}
Published data Successfully: %s {'temperature': 49, 'heartrate': 89}
Published data Successfully: %s {'temperature': 2, 'heartrate': 60}
```



Service Details - IBM Cloud

IBM Watson IoT Platform

https://6yafic.internetofthings.ibmcloud.com/dashboard/devices/browse

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IBM Watson IoT Platform

2k19ece005@kilot.ac.in ID: 6yafic

Browse Action Device Types Interfaces

Add Device

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added
Arvin	Disconnected	Assignment4	Device	Oct 31, 2022 10:34 AM
ArvinID	Disconnected	Assignment-4	Device	Oct 31, 2022 11:35 AM
PNT2022TMID30240	Disconnected	Monitoringarea	Device	Oct 30, 2022 2:17 PM
Sensorid	Disconnected	Sensor	Device	Nov 4, 2022 12:24 PM
SprintID	Connected	Sprint1	Device	Oct 31, 2022 2:40 PM

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Service Details - IBM Cloud

IBM Watson IoT Platform

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https://6yafic.internetofthings.ibmcloud.com/dashboard/devices/browse

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BrowseActionDevice TypesInterfaces

Add Device +

>

Sensorid

Disconnected

Sensor

Device

Nov 4, 2022 12:24 PM

▼

SprintID

Connected

Sprint1

Device

Oct 31, 2022 2:40 PM

→ ...

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
status	{"temperature":13,"heartrate":62}	json	a few seconds ago
status	{"temperature":6,"heartrate":96}	json	a few seconds ago
status	{"temperature":25,"heartrate":77}	json	a few seconds ago
status	{"temperature":19,"heartrate":82}	json	a few seconds ago

Windows Taskbar

2:52 PM