

Develop python Script and Publish in IBM Cloud

Team ID	PNT2022TMID17702
Project Name	Industry-Specific Intelligent Fire Management System

Python Script:

```
import wiotp.sdk.device
import time
from collections.abc import MutableSequence
import random

myConfig = {
    "identity": {
        "orgId": "0va7j8",
        "typeId": "esp32",
        "deviceId": "1234"
    },
    "auth": {
        "token": "12345678"
    }
}

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:
    temperature = random.randint(-20,125)
    gas = random.randint(0,1000)
    flamereading = random.randint(200,1024)
    myData={'Temperature': temperature, 'Gas':gas, 'Flamereading':flamereading}
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
    client.disconnect()
```

```
manikandan@pop-os:~$ cd Downloads/
manikandan@pop-os:~/Downloads$ nano script.py
manikandan@pop-os:~/Downloads$ python3 script.py
2022-11-18 20:16:25,569 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:0va7j8:esp32:1234
Published data Successfully: %s {'Temperature': 91, 'Gas': 403, 'Flamereading': 238}
Published data Successfully: %s {'Temperature': -14, 'Gas': 429, 'Flamereading': 268}
Published data Successfully: %s {'Temperature': 63, 'Gas': 374, 'Flamereading': 806}
Published data Successfully: %s {'Temperature': 72, 'Gas': 233, 'Flamereading': 384}
Published data Successfully: %s {'Temperature': 89, 'Gas': 951, 'Flamereading': 802}
Published data Successfully: %s {'Temperature': 42, 'Gas': 526, 'Flamereading': 503}
Published data Successfully: %s {'Temperature': 33, 'Gas': 820, 'Flamereading': 323}
Published data Successfully: %s {'Temperature': 75, 'Gas': 637, 'Flamereading': 317}
Published data Successfully: %s {'Temperature': 21, 'Gas': 808, 'Flamereading': 994}
Published data Successfully: %s {'Temperature': 105, 'Gas': 90, 'Flamereading': 307}
Published data Successfully: %s {'Temperature': 53, 'Gas': 254, 'Flamereading': 844}
Published data Successfully: %s {'Temperature': 28, 'Gas': 87, 'Flamereading': 403}
Published data Successfully: %s {'Temperature': -20, 'Gas': 657, 'Flamereading': 297}
Published data Successfully: %s {'Temperature': 89, 'Gas': 614, 'Flamereading': 994}
Published data Successfully: %s {'Temperature': 118, 'Gas': 364, 'Flamereading': 439}
Published data Successfully: %s {'Temperature': 25, 'Gas': 36, 'Flamereading': 306}
Published data Successfully: %s {'Temperature': 24, 'Gas': 566, 'Flamereading': 259}
Published data Successfully: %s {'Temperature': 12, 'Gas': 802, 'Flamereading': 216}
Published data Successfully: %s {'Temperature': 88, 'Gas': 217, 'Flamereading': 454}
Published data Successfully: %s {'Temperature': 39, 'Gas': 805, 'Flamereading': 533}
```

IBM:

IBM Watson IoT Platform

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Add Device

BrowseActionDevice TypesInterfaces

Search by Device ID

Device Simulator

Device ID	Status	Device Type
1234	Connected	esp32

IdentityDevice InformationRecent EventsStateLogs

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

Event	Value	Format	Last Received
Data	{"temp":23.99}	json	a few seconds ago
Data	{"temp":23.99}	json	a few seconds ago
Data	{"temp":23.99}	json	a few seconds ago
Data	{"temp":23.99}	json	a few seconds ago
Data	{"temp":23.99}	json	a few seconds ago

0 Simulations running