PUBLISH DATA TO THE IBM CLOUD

Date	09 November 2022
Team Id	PNT2022TMID14695
Title	Hazardous Area Monitoring for Industrial Plant using IoT

Python Code

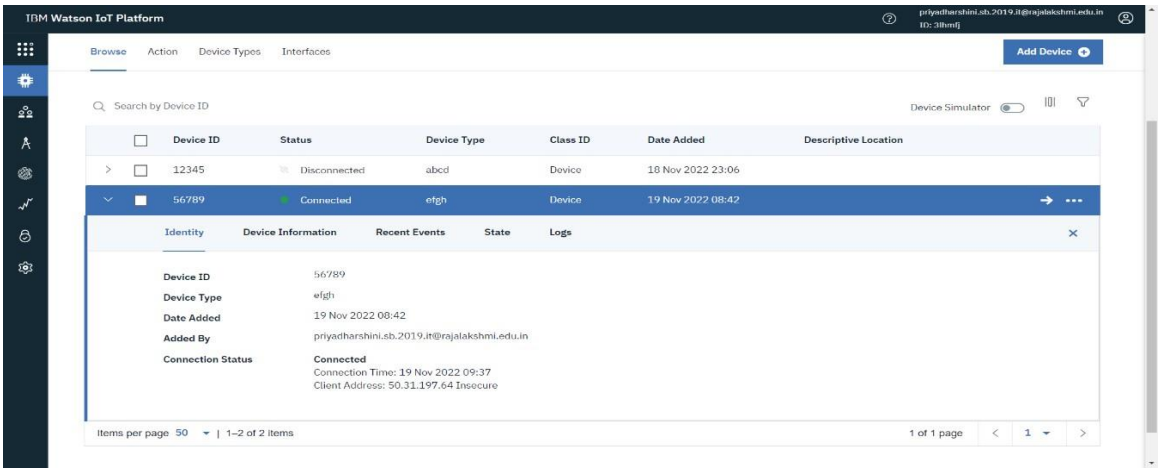
watson.py - C:\Users\91887\AppData\Local\Programs\Python\Python310\watson.py (3.10.0)

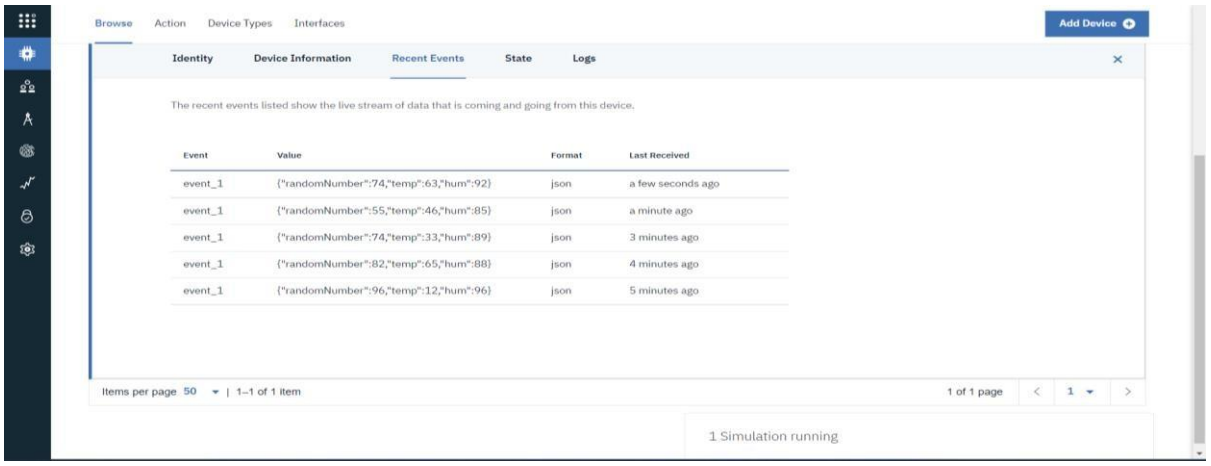
File Edit Format Run Options Window Help

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

organization = "3lhmfj"
deviceType = "efgh"
deviceId = "56789"
authMethod = "use-token-auth"
authToken = "123456789 "

def myCommandCallback(cmd):
    print("Command receied: %s" %cmd.data['command'])
    status = cmd.data['command']
    if status=="lighton":
        print("led is on")
    else:
        print("led is off")


try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-Method": authMethod, "auth-Token": authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
    print("Caught exception connecting device: %s" %str(e))
    sys.exit()

deviceCli.connect()

while True:
    temp=random.randint(0,100)
    humd=random.randint(0,100)
    data={'temp':temp, 'Humid': humd}
    def myOnPublishCallback():
        print("Published Temperature = %s C" % temp, "Humidity= %s %%" % humd, "to IBM Watson")

    success=deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
    if not success:
        print("Not Connected to IoTF")
    time.sleep(1)

    deviceCli.commandCallback=myCommandCallback


deviceCli.disconnect()
```

Generated Values

Publishing the value to IBM cloud




Browse
Action
Device Types
Interfaces
Add Device
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
event_1
{"randomNumber":74,"temp":63,"hum":92}
json
a few seconds ago
event_1
{"randomNumber":55,"temp":46,"hum":85}
json
a minute ago
event_1
{"randomNumber":74,"temp":33,"hum":89}
json
3 minutes ago
event_1
{"randomNumber":82,"temp":65,"hum":88}
json
4 minutes ago
event_1
{"randomNumber":96,"temp":12,"hum":96}
json
5 minutes ago
Items per page 50 | 1–1 of 1 item
1 of 1 page
1
1 Simulation running