SPRINT-2

TEAM ID	PNT2022TMID10968
PROJECT NAME	INDUSTRY - SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM
IBM ID	IBM-Project-62210-1658823576

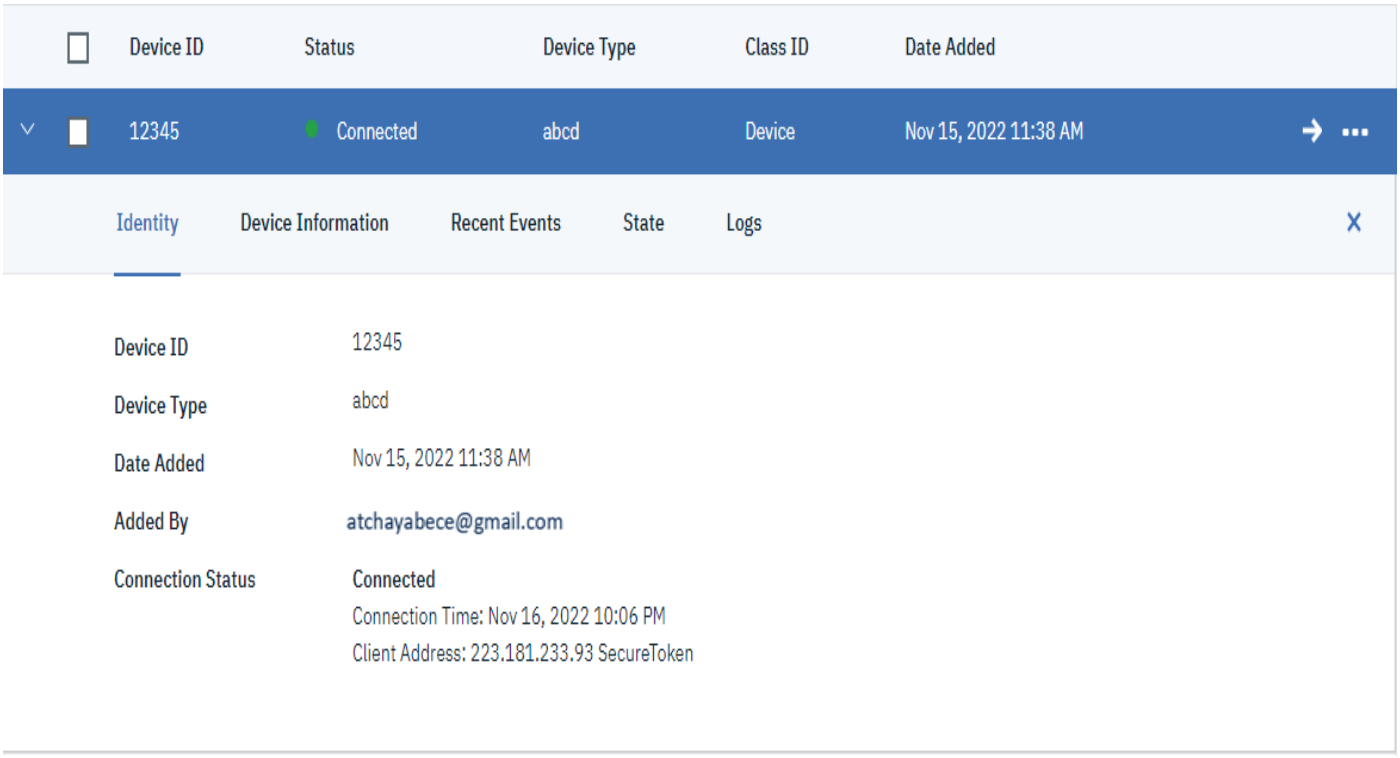
Code for Simulation:

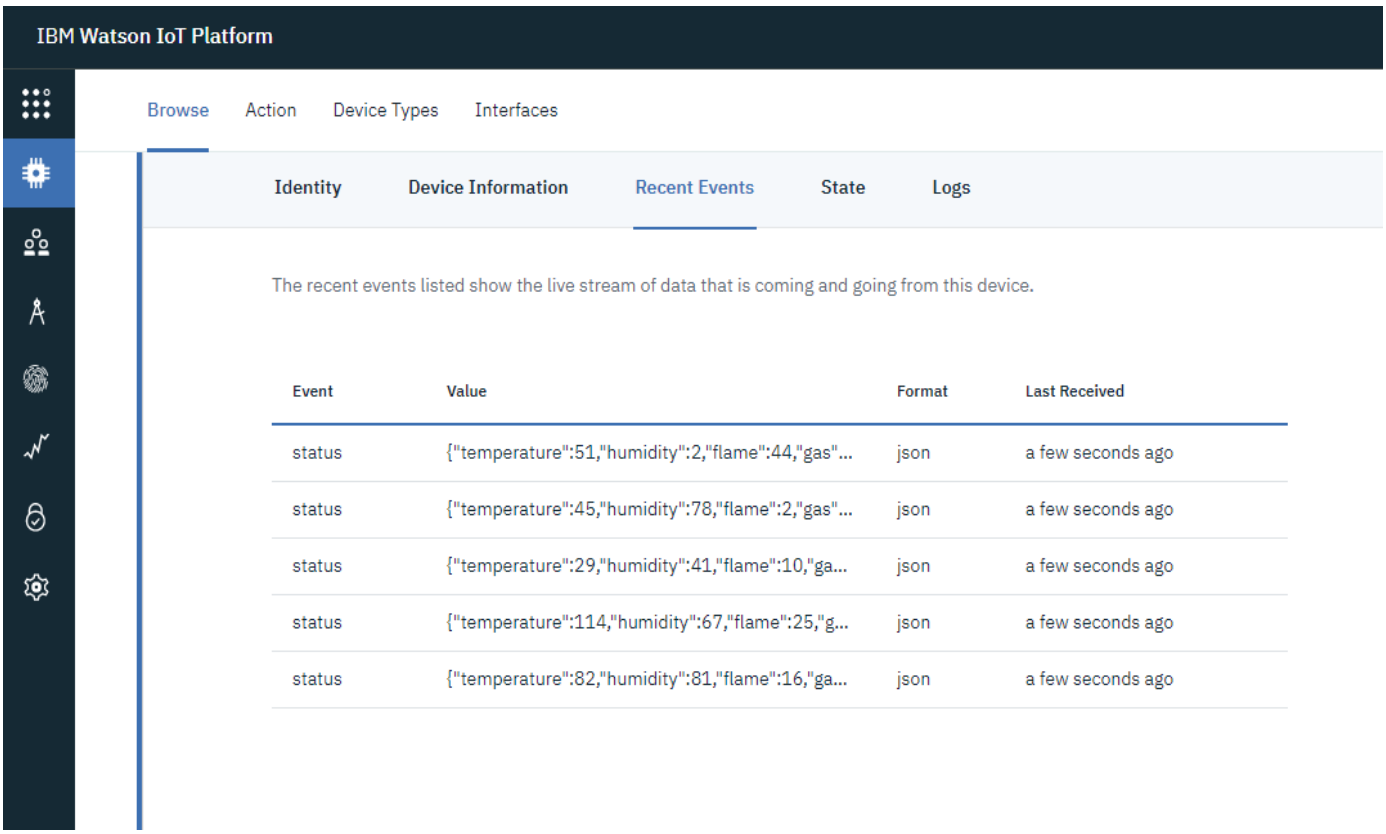
```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
"identity": {
"orgId": "s8ov1q",
"typeId": "abcd",
"deviceId":"12345"
},
"auth": {
"token": "12345678"
}
}
def myCommandCallback(cmd):
print("Message received from IBM IoT Platform: %s" %
```

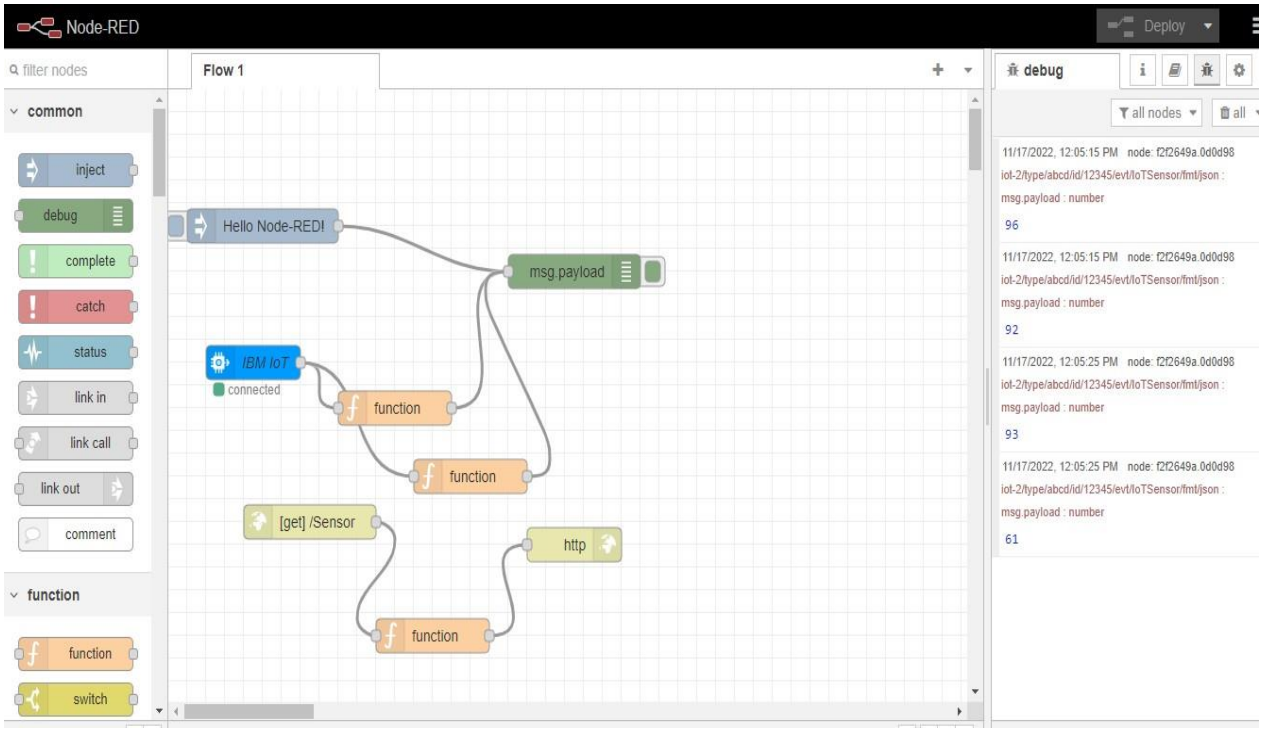
```
cmd.data['command'])
m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()
while True:
temp=random.randint(-20,125)
hum=random.randint(0,100)
flame=random.randint(0,50)
gas=random.randint(0,100)
myData={'temperature':temp, 'humidity':hum,'flame':flame,'gas':gas}
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()
```

OUTPUT (IBM IOT Watson):

CONNECTION DETAILS:






Node-RED
Deploy
filter nodes
Flow 1
debug
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
Hello Node-RED!
msg.payload
IBM IoT
connected
function
function
[get] /Sensor
http
function
all nodes
all
11/17/2022, 12:05:15 PM node: f2f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/IoTSensor/fmt/json : msg.payload : number
96
11/17/2022, 12:05:15 PM node: f2f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/IoTSensor/fmt/json : msg.payload : number
92
11/17/2022, 12:05:25 PM node: f2f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/IoTSensor/fmt/json : msg.payload : number
93
11/17/2022, 12:05:25 PM node: f2f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/IoTSensor/fmt/json : msg.payload : number
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