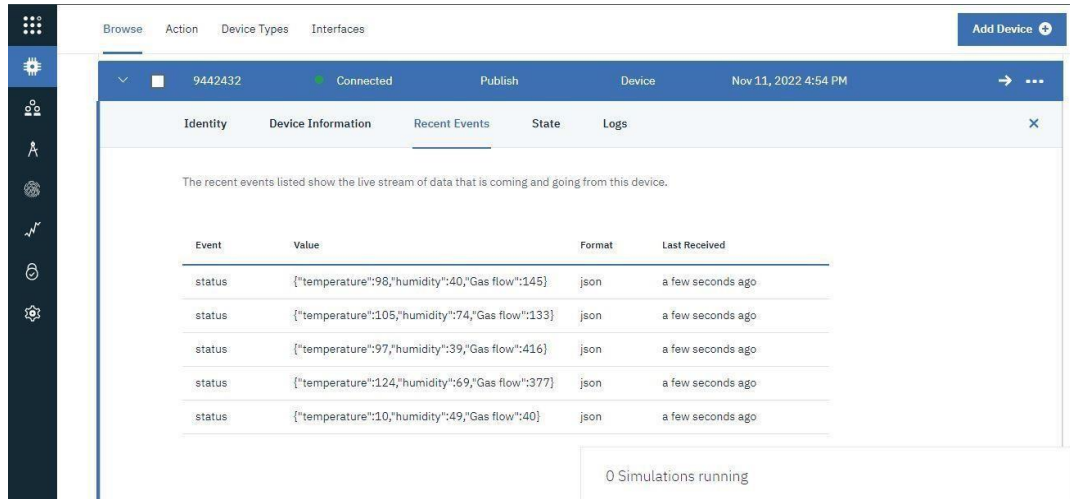


PUBLISH DATA TO THE CLOUD

Team id: PNT2022TMID10383

Data receiving from the python code:



The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various functions. The main content area displays a device with ID '9442432' in a 'Connected' state. Below this, there are tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, showing a table of events. The table has columns for 'Event', 'Value', 'Format', and 'Last Received'. The events listed are status updates with JSON data containing temperature, humidity, and gas flow values. At the bottom right, it indicates '0 Simulations running'.

Event	Value	Format	Last Received
status	["temperature":98,"humidity":40,"Gas flow":145]	json	a few seconds ago
status	["temperature":105,"humidity":74,"Gas flow":133]	json	a few seconds ago
status	["temperature":97,"humidity":39,"Gas flow":416]	json	a few seconds ago
status	["temperature":124,"humidity":69,"Gas flow":377]	json	a few seconds ago
status	["temperature":10,"humidity":49,"Gas flow":40]	json	a few seconds ago

Python code & Output:

```
File Edit Format Run Options Window Help
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "x390n3",
        "typeId": "Publish",
        "deviceId": "9442432"
    },
    "auth": {
        "token": "123456789"
    }
}

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)
    Gas=random.randint(0,500)
    myData={'temperature':temp, 'humidity':hum, 'Gas flow':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()
```

```
*Python 3.7.0 Shell*
File Edit Shell Debug Options Window Help
Published data Successfully: %s {'temperature': 120, 'humidity': 74, 'Gas flow': 216}
Published data Successfully: %s {'temperature': 12, 'humidity': 39, 'Gas flow': 444}
Published data Successfully: %s {'temperature': -1, 'humidity': 60, 'Gas flow': 83}
Published data Successfully: %s {'temperature': 9, 'humidity': 10, 'Gas flow': 405}
Published data Successfully: %s {'temperature': 49, 'humidity': 49, 'Gas flow': 71}
Published data Successfully: %s {'temperature': 20, 'humidity': 72, 'Gas flow': 205}
Published data Successfully: %s {'temperature': 27, 'humidity': 79, 'Gas flow': 1}
Published data Successfully: %s {'temperature': 94, 'humidity': 40, 'Gas flow': 113}
Published data Successfully: %s {'temperature': 29, 'humidity': 22, 'Gas flow': 451}
Published data Successfully: %s {'temperature': 64, 'humidity': 5, 'Gas flow': 221}
Published data Successfully: %s {'temperature': 26, 'humidity': 24, 'Gas flow': 197}
Published data Successfully: %s {'temperature': 68, 'humidity': 25, 'Gas flow': 401}
Published data Successfully: %s {'temperature': 67, 'humidity': 90, 'Gas flow': 233}
Published data Successfully: %s {'temperature': 79, 'humidity': 67, 'Gas flow': 424}
Published data Successfully: %s {'temperature': -10, 'humidity': 31, 'Gas flow': 5}
Published data Successfully: %s {'temperature': -7, 'humidity': 38, 'Gas flow': 5}
Published data Successfully: %s {'temperature': 82, 'humidity': 24, 'Gas flow': 343}
Published data Successfully: %s {'temperature': -2, 'humidity': 86, 'Gas flow': 6}
Published data Successfully: %s {'temperature': -12, 'humidity': 33, 'Gas flow': 412}
Published data Successfully: %s {'temperature': 11, 'humidity': 32, 'Gas flow': 450}
Published data Successfully: %s {'temperature': 70, 'humidity': 75, 'Gas flow': 20}
Published data Successfully: %s {'temperature': -3, 'humidity': 37, 'Gas flow': 280}
```