



## RPG0027 - Vamos interligar as coisas com a nuvem

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## RPG0027 - Vamos interligar as coisas com a nuvem

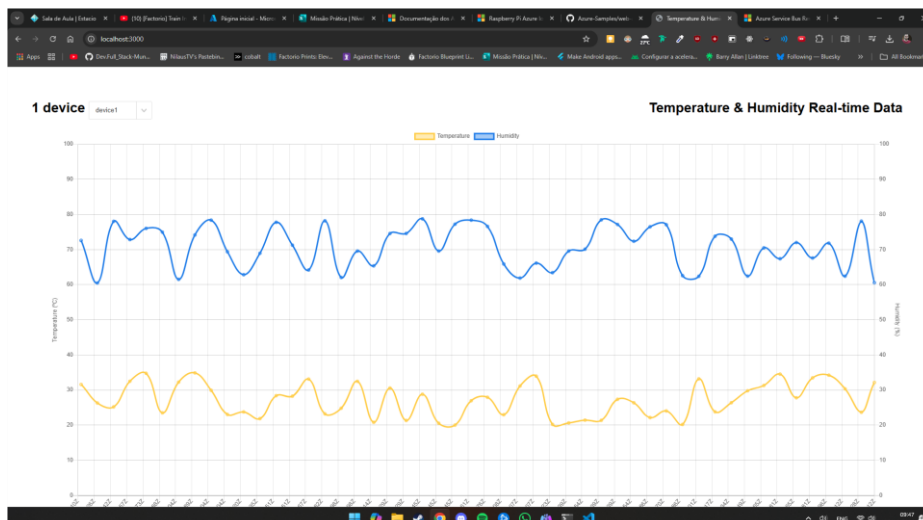
### Objetivo da Prática

- Como criar um Hub IoT do Azure;
- Como registrar um novo dispositivo no Hub IoT;
- Adicionando extensão Hub IoT do Azure para Visual Studio Code;
- Gerenciando e interagindo com o Hub IoT

### Código Local

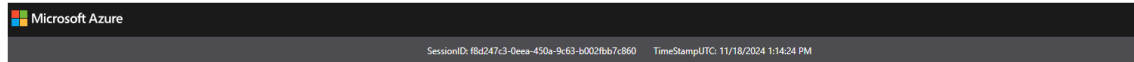
```
1 // Copyright (c) Microsoft. All rights reserved.  
2 // Licensed under the MIT license. See LICENSE file in the project root for full license information.  
3  
4 "use strict";  
5  
6 // The device connection string to authenticate the device with your IoT Hub.  
7  
8 // NOTE:  
9 // For simplicity, this sample sets the connection string in code.  
10 // In a production environment, the recommended approach is to use  
11 // an environment variable to make it available to your application.  
12 // or use an ARM or an ARM certificate.  
13  
14 var connectionString = "HostName=estacio.azure-devices.net;DeviceId=device1;SharedAccessSignature={\"signature\":\"\"}";  
15  
16 // Using the Node.js Device SDK for IoT Hub.  
17 // https://github.com/Azure-RTOS/azure-iot-sdk-node  
18 // Run "npm install azure-iot-device-mqtt" to install the required libraries for this application  
19 // The sample connects to a device-specific MQTT endpoint on your IoT Hub.  
20 var Mqtt = require("azure-iot-device-mqtt");  
21 var DeviceClient = require("azure-iot-device");  
22 var Message = require("azure-iot-device").Message;  
23  
24 var client = DeviceClient.fromConnectionString(connectionString, Mqtt);  
25  
26 // Print results.  
27 function printResult(msg) {  
28     return function printResult(err, res) {  
29         if (err) console.log(err + " error: " + err.toString());  
30     }  
31 }  
32  
33 // Send a message to the IoT Hub.  
34 client.send(Message.from("Hello, IoT Hub!"));  
35  
36 // Listen for messages from the IoT Hub.  
37 client.on("message", function(msg) {  
38     console.log("Received message: " + msg.data);  
39 });  
40  
41 // Close the client when the application is finished.  
42 client.close();
```

### Rodando Localmente



Não consegui criar Web App na azure, devido erro na minha conta de estudante.  
Não estou com créditos disponíveis.

```
fernando [ ~ ]$ az appservice plan create --name apppratica5 --resource-group estacio --sku FREE
/usr/lib64/az/lib/python3.9/site-packages/paramiko/pkey.py:100: CryptographyDeprecationWarning: TripleDES has been moved to cryptography.hazmat.primitives.ciphers.algorithms.TripleDES
  "cipher": algorithms.TripleDES,
/usr/lib64/az/lib/python3.9/site-packages/paramiko/transport.py:259: CryptographyDeprecationWarning: TripleDES has been moved to cryptography.hazmat.primitives.ciphers.algorithms.TripleDES
  "class": algorithms.TripleDES,
Readonly attribute name will be ignored in class <class 'azure.mgmt.web.v2023_01_01.models._models_py3.AppServicePlan'>
This region has quota of 0 instances for your subscription. Try selecting different region or SKU.
fernando [ ~ ]$
```



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