



Missão Prática do Nível 5 – Vamos interligar as coisas com a nuvem!

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Criação do Consumer.

```
lorena [ ~ ]$ az iot hub consumer-group create --hub-name hub-lorena --name consumidor-lorena
{
  "etag": null,
  "id": "/subscriptions/97032274-a973-4a9b-8f5f-600820c37fc6/resourceGroups/hub-lorena/providers/Microsoft.Devices/IoTHubs/hub-lorena/eventHubEndpoints/events/ConsumerGroups/consumidor-lorena",
  "name": "consumidor-lorena",
  "properties": {
    "created": "Thu, 14 Mar 2024 21:56:46 GMT",
    "properties": {
      "name": "consumidor-lorena"
    }
  },
  "resourceGroup": "hub-lorena",
  "type": "Microsoft.Devices/IoTHubs/EventHubEndpoints/ConsumerGroups"
}
```

Captura de string de conexão do HUB.

```
lorena [ ~ ]$ az iot hub show-connection-string --hub-name hub-lorena --policy-name service
This command has been deprecated and will be removed in a future release. Use 'IoT Extension (azure-iot) connection-string command (az iot hub connection-string show)' instead.
[Warning] This output may compromise security by showing the following secrets: connectionString. Learn more at: https://go.microsoft.com/fwlink/?linkid=2258669
{
  "connectionString": "HostName=hub-lorena.azure-devices.net;SharedAccessKeyName=service;SharedAccessKey=sIRNquQ4UVICIVG+NmlqUw+ZvX39zoA0nAIoTP6U2Hw="
}
```

Setando as variáveis de conexão e iniciando o server localmente.

```
D:\Estacio\pratica-5\web-apps-node-iot-hub-data-visualization>set IoTHubConnectionString=HostName=hub-lorena.azure-devices.net;SharedAccessKeyName=s
ervice;SharedAccessKey=sIRNquQ4UVICIVG+NmlqUw+ZvX39zoA0nAIoTP6U2Hw=

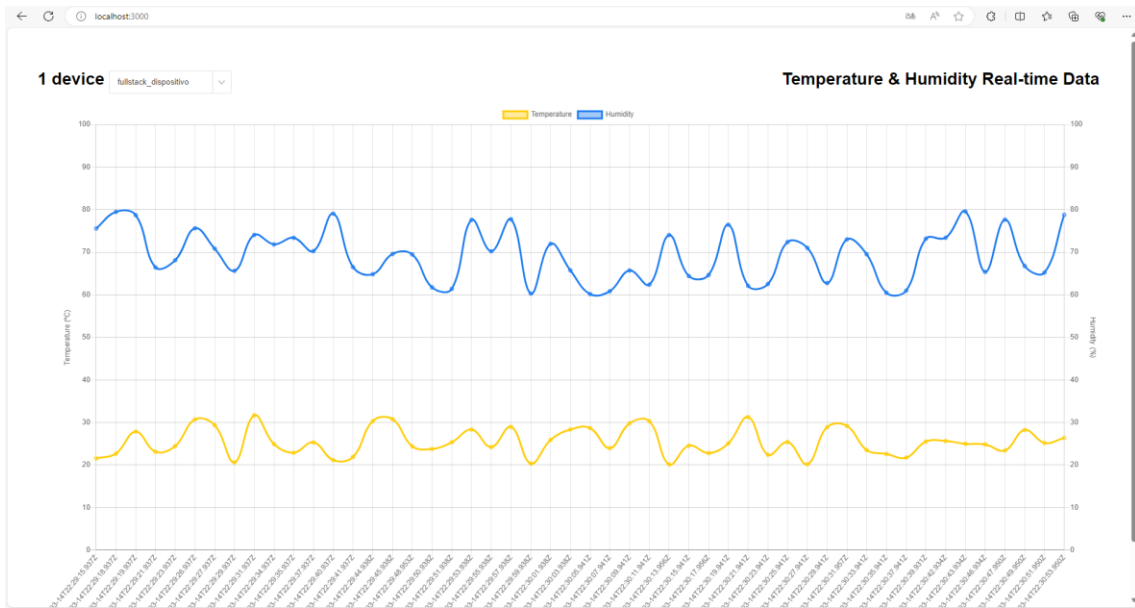
D:\Estacio\pratica-5\web-apps-node-iot-hub-data-visualization>
D:\Estacio\pratica-5\web-apps-node-iot-hub-data-visualization>set EventHubConsumerGroup=consumidor-lorena

D:\Estacio\pratica-5\web-apps-node-iot-hub-data-visualization>npm start

> webapp@0.0.1 start
> node server.js

Using IoT Hub connection string [HostName=hub-lorena.azure-devices.net;SharedAccessKeyName=service;SharedAccessKey=sIRNquQ4UVICIVG+NmlqUw+ZvX39zoA0n
AIoTP6U2Hw=]
consumidor-lorena
Using event hub consumer group [consumidor-lorena]
Listening on 3000.
Successfully created the EventHubConsumerClient from IoT Hub event hub-compatible connection string.
The partition ids are: [ '0', '1' ]
```

Evidência executando localmente.



Criação do AppService

```
lorena [ ~ ]$ az appservice plan create --name app-lorena --resource-group hub-lorena --sku FREE
Readonly attribute name will be ignored in class <class 'azure.mgmt.web.v2023_01_01.models.models_py3.AppServicePlan'>
Resource provider 'Microsoft.Web' used by this operation is not registered. We are registering for you.
Registration succeeded.
{
  "elasticScaleEnabled": false,
  "extendedLocation": null,
  "freeOfferExpirationTime": null,
  "geoRegion": "East US",
  "hostingEnvironmentProfile": null,
  "hyperV": false,
  "id": "/subscriptions/97032274-a973-4a9b-8f5f-600820c37fc6/resourceGroups/hub-lorena/providers/Microsoft.Web/serverfarms/app-lorena",
  "isSpot": false,
  "isXenon": false,
  "kind": "app",
  "kubeEnvironmentProfile": null,
  "location": "eastus",
  "maximumElasticWorkerCount": 1,
  "maximumNumberOfWorkers": 0,
  "name": "app-lorena",
  "numberOfSites": 0,
  "numberOfWorkers": 0,
  "perSiteScaling": false,
  "provisioningState": "Succeeded",
  "reserved": false,
  "resourceGroup": "hub-lorena",
  "sku": {
    "capabilities": null,
    "capacity": 0,
    "family": "F",
    "locations": null,
    "name": "F1",
    "size": "F1",
    "skuCapacity": null,
    "tier": "Free"
  },
  "spotExpirationTime": null,
  "status": "Ready",
  "subscription": "97032274-a973-4a9b-8f5f-600820c37fc6",
  "tags": null,
  "targetWorkerCount": 0,
  "targetWorkerSizeId": 0,
  "type": "Microsoft.Web/serverfarms",
  "workerTierName": null,
  "zoneRedundant": false
}
```

Criação do WebApp

```
lorena [ ~ ]$ az webapp create -n App-IoT-Lorena -g hub-lorena -p app-lorena --runtime "NODE:16LTS" --deployment-local-git
Local git is configured with url of 'https://None@app-iot-lorena.scm.azurewebsites.net/App-IoT-Lorena.git'
{
  "availabilityState": "Normal",
  "clientAffinityEnabled": true,
  "clientCertEnabled": false,
  "clientCertExclusionPaths": null,
  "clientCertMode": "Required",
  "cloningInfo": null,
  "containerSize": 0,
  "customDomainVerificationId": "1B53A33F6B0D29E0305075B22A4F7482B75681761C5C0F10BAE670FF7C7C8E2C",
  "dailyMemoryTimeQuota": 0,
  "daprConfig": null,
  "defaultHostName": "app-iot-lorena.azurewebsites.net",
  "deploymentLocalGitUrl": "https://None@app-iot-lorena.scm.azurewebsites.net/App-IoT-Lorena.git",
  "enabled": true,
  "enabledHostNames": [
    "app-iot-lorena.azurewebsites.net",
    "app-iot-lorena.scm.azurewebsites.net"
  ],
  "extendedLocation": null,
  "ftpPublishingUrl": "ftps://waws-prod-blu-561.ftp.azurewebsites.windows.net/site/wwwroot",
  "hostNameSslStates": [
    {
      "certificateResourceId": null,
      "hostType": "Standard",
      "ipBasedSslResult": null,
      "ipBasedSslState": "NotConfigured",
      "name": "app-iot-lorena.azurewebsites.net",
      "sslState": "Disabled",
      "thumbprint": null,
      "toUpdate": null,
      "toUpdateIpBasedSsl": null,
      "virtualIPv6": null,
      "virtualIp": null
    },
    {
      "certificateResourceId": null,
      "hostType": "Repository",
      "ipBasedSslResult": null,
      "ipBasedSslState": "NotConfigured",
      "name": "app-iot-lorena.scm.azurewebsites.net",
      "sslState": "Disabled",
      "thumbprint": null,
      "toUpdate": null,
      "toUpdateIpBasedSsl": null,
      "virtualIPv6": null,
      "virtualIp": null
    }
  ],
  "hostNames": [
    "app-iot-lorena.azurewebsites.net"
  ],
  "hostNamesDisabled": false,
  "hostingEnvironmentProfile": null,
  "httpsOnly": false,
  "hyperV": false,
```

Configurando as credenciais do hub no WebApp.

```
lorena [ ~ ]$ az webapp config appsettings set -n App-IoT-Lorena -g hub-lorena --settings EventHubConsumerGroup=consumidor-lorena IotHubConnectionString="HostName=hub-lorena.azure-devices.net;SharedAccessKeyName=service;SharedAccessKey=sIRkquQ4UVICTVG+Hn1qM4+2vX3S
zoA0nA1oTP6U2Hn="
App settings have been redacted. Use 'az webapp/logicapp/functionapp config appsettings list' to view.
{
  {
    "name": "WEBSITE_NODE_DEFAULT_VERSION",
    "slotSetting": false,
    "value": null
  },
  {
    "name": "EventHubConsumerGroup",
    "slotSetting": false,
    "value": null
  },
  {
    "name": "IotHubConnectionString",
    "slotSetting": false,
    "value": null
  }
}
lorena [ ~ ]$
```

Habilitando web sockets.

```
loreana [ ~ ]$ az webapp config set -n App-IoT-Lorena -g hub-lorena --web-sockets-enabled true
{
  "acrUseManagedIdentityCreds": false,
  "acrUserManagedIdentityId": null,
  "alwaysOn": false,
  "apiDefinition": null,
  "apiManagementConfig": null,
  "appCommandLine": "",
  "appSettings": null,
  "autoHealEnabled": false,
  "autoHealRules": null,
  "autoSwapSlotName": null,
  "azureStorageAccounts": {},
  "connectionStrings": null,
  "cors": null,
  "defaultDocuments": [
    "Default.htm",
    "Default.html",
    "Default.asp",
    "index.htm",
    "index.html",
    "iisstart.htm",
    "default.aspx",
    "index.php",
    "hostingstart.html"
  ],
  "detailedErrorLoggingEnabled": false,
  "documentRoot": null,
  "elasticWebAppScaleLimit": 0,
```

Permitir apenas https


```
lorena [ ~ ]$ az webapp update -n App-IoT-Lorena -g hub-lorena --https-only true
{
  "availabilityState": "Normal",
  "clientAffinityEnabled": true,
  "clientCertEnabled": false,
  "clientCertExclusionPaths": null,
  "clientCertMode": "Required",
  "cloningInfo": null,
  "containerSize": 0,
  "customDomainVerificationId": "1B53A33F6B0D29E0305075B22A4F7482B75681761C5C0F10BAE670FF7C7C8E2C",
  "dailyMemoryTimeQuota": 0,
  "daprConfig": null,
  "defaultHostName": "app-iot-lorena.azurewebsites.net",
  "enabled": true,
  "enabledHostNames": [
    "app-iot-lorena.azurewebsites.net",
    "app-iot-lorena.scm.azurewebsites.net"
  ],
  "extendedLocation": null,
  "hostNameSslStates": [
    {
      "certificateResourceId": null,
      "hostType": "Standard",
      "ipBasedSslResult": null,
      "ipBasedSslState": "NotConfigured",
      "name": "app-iot-lorena.azurewebsites.net",
      "sslState": "Disabled",
      "thumbprint": null,
      "toUpdate": null,
      "toUpdateIpBasedSsl": null,
      "virtualIPv6": null,
      "virtualIp": null
    },
    {
      "certificateResourceId": null,
      "hostType": "Repository",
      "ipBasedSslResult": null,
      "ipBasedSslState": "NotConfigured",
      "name": "app-iot-lorena.scm.azurewebsites.net",
      "sslState": "Disabled",
      "thumbprint": null,
      "toUpdate": null,
      "toUpdateIpBasedSsl": null,
      "virtualIPv6": null,
      "virtualIp": null
    }
  ],
}
```

Evidência do WebApp rodando.

```
lorena [ ~ ]$ az webapp show -n App-IoT-Lorena -g hub-lorena --query state
"Running"
```


Não funcionou de primeira, faltou fazer o upload do código para a Azure.


← ↻ <https://app-iot-lorena.azurewebsites.net>

 Microsoft Azure

Seu aplicativo web está sendo executado e aguardando pelo seu conteúdo

Seu aplicativo web está ativo, mas ainda não temos seu conteúdo. Se você já implantou, pode levar até 5 minutos para que seu conteúdo seja mostrado, então volte logo.



 Suporte a Node.js, Java, .NET e muito mais

Ainda não foi implantado?
Use o centro de implantação para publicar o código ou configurar a implantação contínua.

[Centro de implantação](#)

Iniciando um novo site?
Siga nosso guia de início rápido para preparar um aplicativo da web rapidamente.

[Início rápido](#)

Vinculando o git local ao remote.

```
D:\Estacio\pratica-5\web-apps-node-iot-hub-data-visualization>git remote add azure https://App-IoT-Lorena.scm.azurewebsites.net/App-IoT-Lorena.git
```

Criação de usuário para fazer o 'push' do código.

```
az webapp deployment user set --user-name lorena-fullstack-estacio --password
```

Instrução de push.

```
D:\Estacio\pratica-5\web-apps-node-iot-hub-data-visualization>git push azure master
Enumerating objects: 174, done.
Counting objects: 100% (174/174), done.
Delta compression using up to 12 threads
Compressing objects: 100% (81/81), done.
Writing objects: 100% (174/174), 214.33 KiB | 53.58 MiB/s, done.
Total 174 (delta 74), reused 173 (delta 74), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (74/74), done.
remote: Updating branch 'master'.
remote: Updating submodules.
remote: Preparing deployment for commit id 'f8314406c8'.
remote: Generating deployment script.
remote: Generating deployment script for node.js Web Site
remote: Generated deployment script files
remote: Running deployment command...
remote: Handling node.js deployment.
```

Evidência rodando na Azure.

