



# Estácio

Faculdade Estácio

Campus Belford Roxo - RJ

Desenvolvimento Full Stack

Disciplina - **Vamos Interligar as Coisas Com a Nuvem!**

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Semestre - 4

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Repositório: <https://github.com/CristianS09/azure-iot.git>

## Objetivos

O objetivo desta missão prática foi exibir os dados de um dispositivo IOT em uma aplicação web no Azure.

## Resultado

```

{
  "elasticScaleEnabled": false,
  "extendedLocation": null,
  "freeOfferExpirationTime": null,
  "geoRegion": "East US",
  "hostingEnvironmentProfile": null,
  "hypervVt": false,
  "id": "/subscriptions/04959c50-ea67-4421-9f52-63a86d153945/resourceGroups/rg_iot/providers/Microsoft.Web/serverFarms/app",
  "isSpot": false,
  "isXenon": false,
  "kind": "app",
  "kubeEnvironmentProfile": null,
  "location": "eastus",
  "maximumElasticWorkerCount": 1,
  "maximumNumberOfWorkers": 0,
  "name": "app",
  "numberOfSites": 0,
  "numberOfWorkers": 0,
  "perSiteScaling": false,
  "provisioningState": "Succeeded",
  "reserved": false,
  "resourceGroup": "rg_iot",
  "sku": {
    "capabilities": null,
    "capacity": 0,
    "family": "F",
    "locations": null,
    "name": "F1",
    "size": "F1",
    "skuCapacity": null,
    "tier": "Free"
  }
}

```

```
cristian [ ~ ]$ az iot hub connection-string show --hub-name FullStack01 --policy-name service

Preview version of extension is disabled by default for extension installation, enabled for modules without stable versions.
Please run 'az config set extension.dynamic_install.allow_preview=true or false' to config it specifically.
The command requires the extension azure-iot. Do you want to install it now? The command will continue to run after the extension is installed. (Y/n): Run 'az config set extension.use_dynamic_install.without_prompt' to allow installing extensions without prompt.
(- Installing --
  "connectionString": "HostName=FullStack01.azure-devices.net;SharedAccessKeyName=service;SharedAccessKey=HF/uQiq2QfrL4rZc6t0I8S0xvLc0FGXtsAI07j/zvIQ="
}
cristian [ ~ ]$
```

```
cris@cris:~$ az iot hub consumer-group create --hub-name FullStack01 --name cgl
{
  "etag": null,
  "id": "/subscriptions/04959c50-ea67-4421-9f52-63a06d153945/resourceGroups/rg_iot/providers/Microsoft.Devices/IotHubs/FullStack01/eventHubEndpoints/events/ConsumerGroups/cgl",
  "name": "cgl",
  "properties": {
    "created": "Thu, 20 Feb 2025 17:53:42 GMT",
    "properties": {
      "name": "cgl"
    }
  },
  "resourceGroup": "rg_iot",
  "type": "Microsoft.Devices/IotHubs/EventHubEndpoints/ConsumerGroups"
}
```

The screenshot shows the Raspberry Pi Azure IoT Online Simulator. On the left, a 3D model of a Raspberry Pi is shown with a BME280 sensor module connected via I2C. The right pane displays the JavaScript code for the IoT Hub client, which sends temperature and humidity data to the Azure IoT Hub. The bottom pane shows the console output, indicating successful message sending to the IoT Hub.

