



Missão Prática | Nível 5 | Mundo 4

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Nível 4: Vamos interligar as coisas com a nuvem – Turma: 22.3 – 4º

Semestre

Criando o consumer group

```
alvim [ ~ ]$ az iot hub consumer-group create --hub-name alvimHub --name alvimConsumerGroup
{
  "etag": null,
  "id": "/subscriptions/19cb8cec-0c45-4fec-bbe5-a34711be1e4/resourceGroups/Ubuntu_group/providers/Microsoft.Devices/IotHubs/alvimHub/eventHubEndpoints/events/ConsumerGroups/alvimConsumerGroup",
  "name": "alvimConsumerGroup",
  "properties": {
    "created": "Mon, 10 Jun 2024 17:31:43 GMT",
    "properties": {
      "name": "alvimConsumerGroup"
    }
  },
  "resourceGroup": "Ubuntu_group",
  "type": "Microsoft.Devices/IotHubs/EventHubEndpoints/ConsumerGroups"
}
```

Mostrando a connection string

```
alvim [ ~ ]$ az iot hub show-connection-string --hub-name alvimHub --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=alvimHub.azure-devices.net;SharedAccessKeyName=service;SharedAccessKey=2Kqmltlf9r2kyDnJdNzN5cvdQXQ34fMLMAIoTJw8R24="
}
```

Setando as variáveis de ambiente no CMD do Windows local

```
Microsoft Windows [versão 10.0.22631.3672]
(c) Microsoft Corporation. Todos os direitos reservados.

C:\Users\Filipe>set IoTHubConnectionString=HostName=alvimHub.azure-devices.net;SharedAccessKeyName=service;SharedAccessKey=2Kqmltlf9r2kyDnJdNzN5cvdQXQ34fMLMAIoTJw8R24=

C:\Users\Filipe>set EventHubConsumerGroup=alvimConsumerGroup

C:\Users\Filipe>
```

Rodando o server localmente

```
npm start

C:\Users\Filipe\Desktop\estacio\projetos\mundo4\m4n5\web-apps-node-iot-hub-data-visualization-master>npm start

> webapp@0.0.1 start
> node server.js

Using IoT Hub connection string [HostName=alvimHub.azure-devices.net;SharedAccessKeyName=service;SharedAccessKey=2Kqmltlf9r2kyDnJdNzN5cvdQXQ34fMLMAIoTJw8R24=]
alvimConsumerGroup
Using event hub consumer group [alvimConsumerGroup]
Listening on 3000.
Successfully created the EventHubConsumerClient from IoT Hub event hub-compatible connection string.
The partition ids are: [ '0', '1' ]
```

Servidor rodando no localhost



Criando o app service

```

az vm image create --name app-fullstack --resource-group Ubuntu_group --sku FREE
Readonly attribute name will be ignored in class <class 'azure.mgmt.web.v2023_01_01.models._models_py3.AppServicePlan'>
{
  "elasticScaleEnabled": false,
  "extendedLocation": null,
  "freeOfferExpirationTime": null,
  "geoRegion": "East US",
  "hostingEnvironmentProfile": null,
  "hyperV": false,
  "id": "/subscriptions/19cb8cec-0c45-4fec-bbe5-a34711beb1e4/resourceGroups/Ubuntu_group/providers/Microsoft.Web/serverfarms/app-fullstack",
  "isSpot": false,
  "isXenon": false,
  "kind": "app",
  "kubeEnvironmentProfile": null,
  "location": "eastus",
  "maximumElasticWorkerCount": 1,
  "maximumNumberOfWorkers": 0,
  "name": "app-fullstack",
  "numberOfSites": 0,
  "numberOfWorkers": 0,
  "perSiteScaling": false,
  "provisioningState": "Succeeded",
  "reserved": false,
  "resourceGroup": "Ubuntu_group",
  "sku": {
    "capabilities": null,
    "capacity": 0,
    "family": "F",
    "locations": null,
    "name": "F1",
    "size": "F1",
    "skuCapacity": null,
    "tier": "Free"
  },
  "spotExpirationTime": null,
  "status": "Ready",
  "subscription": "19cb8cec-0c45-4fec-bbe5-a34711beb1e4",
  "tags": null,
  "targetWorkerCount": 0,

```

Criando o WebApp

```

C:\Users\james> [ ~ ]$ az webapp create --app-name apptot-almvm -g app-fullstack --runtime "NODE:20LTS" --deployment-source-url https://github.com/Azure-Samples/web-apps-node-iot-hub-data-visualization
Linking to git repository 'https://github.com/Azure-Samples/web-apps-node-iot-hub-data-visualization'
Location is not a known attribute of class <class 'azure.mgmt.web.v2023_01_01.models._models_py3.SiteSourceControl'> and will be ignored
{
  "availabilityState": "Normal",
  "clientAffinityEnabled": true,
  "clientCertEnabled": false,
  "clientCertExclusionPaths": null,
  "clientCertMode": "Required",
  "cloningInfo": null,
  "containerSize": 0,
  "customDomainVerificationId": "72B60B1C8FD4641D1A19E634F9BC345B3789904E0E7519D23D5615731005BA3",
  "dailyMemoryInQuota": 0,
  "dayConfig": null,
  "defaultHostName": "apptot-almvm.azurewebsites.net",
  "enabled": true,
  "enabledHostNames": [
    "apptot-almvm.azurewebsites.net",
    "apptot-almvm.scm.azurewebsites.net"
  ],
  "extendedLocation": null,
  "ftpPublishingUrl": "https://www-prod-blu-391.ftp.azurewebsites.windows.net/site/wwwroot",
  "hostNameSslStates": [
    {
      "certificateResourceId": null,
      "hostType": "Standard",
      "ipBasedSslResult": null,
      "ipBasedSslState": "NotConfigured",
      "name": "apptot-almvm.azurewebsites.net",
      "sslState": "Disabled",
      "thumbprint": null,
      "tolpdate": null,
      "tolpdateIpBasedSsl": null,
      "virtualIp": null,
      "virtualIp": null
    },
    {
      "certificateResourceId": null,
      "hostType": "Repository",
      "ipBasedSslResult": null,
      "ipBasedSslState": "NotConfigured",
      "name": "apptot-almvm.scm.azurewebsites.net",
      "sslState": "Disabled",
      "thumbprint": null,
      "tolpdate": null,
      "tolpdateIp": null
    }
  ]
}

```

Adicionando configurações de conexão do hub lot

```

$ curl -s -X GET http://localhost:8080/api/v1/appsettings
{"name": "WebsiteModeDefaultVersion", "slotSetting": false, "value": null}, {"name": "EventHubConsumerGroup", "slotSetting": false, "value": null}, {"name": "IotHubConnectionString", "slotSetting": false, "value": null}

```

Ativando websocket e configurando para aceitar apenas HTTPS

```
alvimm [ ~ ]$ az webapp config set -n AppIoT-alvimm -g Ubuntu_group --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,
  "experiments": {
    "rampUpRules": []
  },
  "ftpState": "FtpsOnly",
  "functionAppScaleLimit": null,
  "functionsRuntimeScaleMonitoringEnabled": false,
  "handlerMappings": null,
  "healthCheckPath": null,
  "http2Enabled": true,
  "httpLoggingEnabled": false,
  "id": "/subscriptions/19cb8cec-0c45-4fec-bbe5-a34711bbe1e4/resourceGroups/Ubuntu_group/providers/Microsoft.Web/sites/AppIoT-alvimm",
  "ipSecurityRestrictions": [
    {
      "action": "Allow",
      "description": "Allow all access",
    }
  ],
  "availabilityState": "Normal",
  "clientAffinityEnabled": true,
  "clientCertEnabled": false,
  "clientCertExclusionPaths": null,
  "clientCertMode": "Required",
  "cloningInfo": null,
  "containerSize": 0,
  "customDomainVerificationId": "72B60B1C8FD4641DA119E634F9BC354B3E789904E0E7519D23D5615731005BA3",
  "dailyMemoryTimeQuota": 0,
  "daprConfig": null,
  "defaultHostName": "appiot-alvimm.azurewebsites.net",
  "enabled": true,
  "enabledHostNames": [
    "appiot-alvimm.azurewebsites.net",
    "appiot-alvimm.scm.azurewebsites.net"
  ],
  "extendedLocation": null,
  "hostNameSslStates": [
    {
      "certificateResourceId": null,
      "hostType": "Standard",
      "ipBasedSslResult": null,
      "ipBasedSslState": "NotConfigured",
      "name": "appiot-alvimm.azurewebsites.net",
      "sslState": "Disabled",
      "thumbprint": null,
      "toUpdate": null,
      "toUpdateIpBasedSsl": null,
      "virtualIPv6": null,
      "virtualIp": null
    },
    {
      "certificateResourceId": null,
      "hostType": "Repository",
      "ipBasedSslResult": null,
      "ipBasedSslState": "NotConfigured",
      "name": "appiot-alvimm.scm.azurewebsites.net",
      "sslState": "Disabled",
      "thumbprint": null,
      "toUpdate": null,
      "toUpdateIpBasedSsl": null,
      "virtualIPv6": null,
    }
  ]
}
```

Rodando o servidor na Azure

← ↻ 🔒 https://apiot-alvimm.azurewebsites.net

1 device alvimm_device ▾

Temperature & Humidity Real-time Data

