

Vamos interligar as coisas com a nuvem

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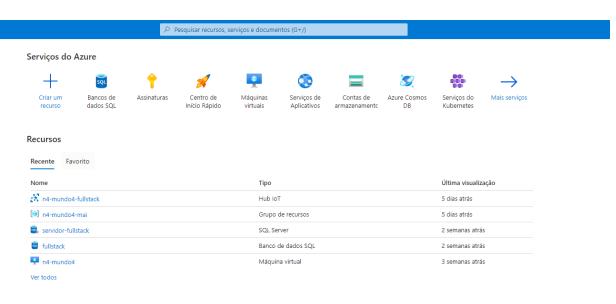
Polo Downtown - Barra da Tijuca - RJ

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.

Implantação:

Obs.: apesar de ter nomeado como n4, essa atividade é corresponente ao nível 5.



Criação de grupo de consumidores:

az iot hub consumer-group create --hub-name n4-mundo4-fullstack
--name fullstack consumer

```
VERBOSE: Authenticating to Azure ...
VERBOSE: Building your Azure drive ...

{
    "etag": null,
    "id": "/subscriptions/978144e-f197-40c0-aebc-af48da7c118f/resourceGroups/n4-mundo4-mai/providers/Microsoft.Devices/IotHubs/n4-mundo4-fullstack/eventHubEndpoints/events/ConsumerGroups/fullstack_consumer",
    "name": "Inllstack_consumer",
    "properties": {
        "restact": "Sat, 09 Mar 2024 17:20:37 GMT",
        "properties": {
        "name": "fullstack_consumer"
        }
    },
    "nesourceGroup": "n4-mundo4-mai",
    "type": "Microsoft.Devices/IotHubs/EventHubEndpoints/ConsumerGroups"
    }

PS /Nome/maiara> [
```

Obter uma cadeia de conexão para o hub IoT:

az iot hub show-connection-string --hub-name n4-mundo4-fullstack
--policy-name service

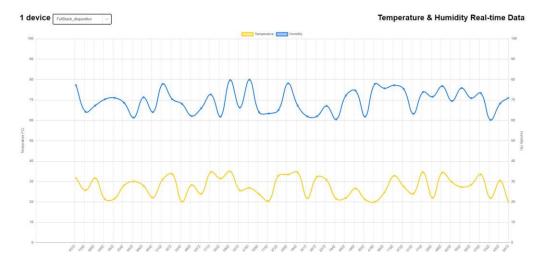
```
PS /home/maiara> az iot hub show-connection-string --hub-name r4-mundo4-fullstack --policy-name service
This command has been deprecated and will be removed in a future release. Use 'IoT Extension (azure-iot) connection-string command (az iot hub connection-string show)' instead.

[Warning] This output may compromise security by showing the following secrets: connectionString. Learn more at: https://go.microsoft.com/fwlink/?linkid=2258669

{
    "connectionString": "HostName=r4-mundo4-fullstack.azure-devices.net;SharedAccessKeyName=service;SharedAccessKey=wx46Y3gEbXVzn4iBpVKh3WN7xMAarCmEuAIoTFH+pxo="
}
PS /home/maiara>

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```

Dados coletados:



Criando novo plano de serviço de aplicativo:

az appservice plan create --name n5-mundo4-fullstack --resourcegroup n4-mundo4-mai --sku FREE

Provisionando um app web:

az webapp create -n n5-mundo4-fullstackwebapp -g n4-mundo4-mai -p n5-mundo4-fullstack --runtime "NODE:16LTS" --deployment-local-git

```
PS / News/maiarwo az webapp create -n n5-mundod-fullstackwebapp -g nd-mundod-fullstack -runtime "MCMLICALS" -deployment-local-git local git is configured with unl of 'https://Mone@n5-mundod-fullstackwebapp.scm.azurewebsites.net/n5-mundod-fullstackwebapp.git' {
    "availabilityState": "Normal",
    "clientAffinityInabled": true,
    "clientCertExplained"states: null,
    "clientCertExplained"states: null,
    "clientCertExplained"states: null,
    "clientCertExplained"states: null,
    "cloningInfo": null,
    "containerSize": 0,
    "custonObaminverificationId": "EBF224B15E3F21C619D273DF10121896C432435857BAEE8183D38B7800DEA5FD",
    "dain/MonorylimeQuata": 0,
    "daprCornig": null,
    "deploymentLocalGitUnl": "thtps://Mone@n5-mundod-fullstackwebapp.scm.azurewebsites.net",
    "enabledCostNames": [
    "n5-mundod-fullstackwebapp.azurewebsites.net",
    "n5-mundod-fullstackwebapp.scm.azurewebsites.net",
    ""s-mundod-fullstackwebapp.scm.azurewebsites.net",
    ""s-mundod-fullstackwebapp.scm.azurewebsites.net",
    ""s-mundod-fullstackwebapp.scm.azurewebsites.net",
    ""s-mundod-fullstackwebapp.scm.azurewebsites.net",
    ""s-mundod-fullstackwebapp.scm.azurewebsites.windows.net/site/wwwroot",
    "hostNameSslStates": null,
    ""s-mundod-fullstackwebapp.azurewebsites.net",
    ""s-slstate: "Disabled": null,
    ""s-slstate: "Disabled": null,
    ""s-slstate: "Disabled": null,
    ""s-slstate: "Disabled";
    ""hubpprint": null,
    ""otydate[Paedods]": null,
```

Configurações de aplicativo:

az webapp config appsettings set -n n5-mundo4-fullstackwebapp -g n4-mundo4-mai --settings

 ${\tt EventHubConsumerGroup=fullstack_consumer}$

IotHubConnectionString="HostName=n4-mundo4-fullstack.azure-devices.net;SharedAccessKeyName=service;SharedAccessKey=wx46Y3gEbXVzn4iBpVKh3MN7xMAarCmEuAIoTFH+pxo="

Ativando o protocolo WebSocket:

az webapp config set -n n5-mundo4-fullstackwebapp -g n4-mundo4-mai --web-sockets-enabled true

Configurando webapp para aceitar exclusivamente solicitações HTTPS:

az webapp update -n n5-mundo4-fullstackwebapp -g n4-mundo4-mai -https-only true

```
PS /home/maiara> az webapp update -n n5-mundo4-fullstackwebapp -g n4-mundo4-mai --https-only true
  "availabilityState": "Normal",
  "clientAffinityEnabled": true,
  "clientCertEnabled": false,
  "clientCertExclusionPaths": null,
  "clientCertMode": "Required",
  "cloningInfo": null,
  "containerSize": 0,
  "customDomainVerificationId": "EBF224B15E3F21C619D273DF10121896C432435857BAEE8183D3BB7800DEA5FD",
  "dailyMemoryTimeQuota": 0,
  "daprConfig": null,
"defaultHostName": "n5-mundo4-fullstackwebapp.azurewebsites.net",
  "enabled": true,
  "enabledHostNames": [
    "n5-mundo4-fullstackwebapp.azurewebsites.net",
    "n5-mundo4-fullstackwebapp.scm.azurewebsites.net"
  ],
"extendedLocation": null,
  "hostNameSslStates": [
      "certificateResourceId": null,
      "hostType": "Standard",
      "ipBasedSslResult": null,
"ipBasedSslState": "NotConfigured",
      "name": "n5-mundo4-fullstackwebapp.azurewebsites.net",
      "sslState": "Disabled",
      "thumbprint": null,
      "toUpdate": null,
      "toUpdateIpBasedSsl": null,
      "virtualIPv6": null,
      "virtualIp": null
    },
      "certificateResourceId": null,
      "hostType": "Repository",
      "ipBasedSslResult": null,
```

Consultando status:

az webapp show -n n5-mundo4-fullstackwebapp -g n4-mundo4-mai -- query state

```
PS /home/maiara> az webapp show -n n5-mundo4-fullstackwebapp -g n4-mundo4-mai --query state
"Running"
```