

CAIQUE THOMAZ STOPIGLIA

Matrícula: 2022.08.29247-1 - Campus POLO VL NEGRELLO - VALINHOS — SP 4º Período do CURSO SUPERIOR DE TECNOLOGIA EM DESENVOLVIMENTO FULL STACK

Missão Pratica nível 5 - Mundo 4

Vamos interligar as coisas com a Nuvem

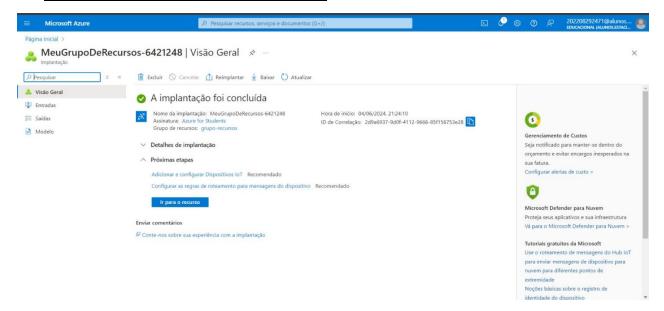
Objetivo:

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

1 - Login Azure CLI:

```
O protopoor of the single we have a company to the control protopool of the control protopool of
```

2 - Criando Grupo de Recursos IoT Hub:



3 - Adicionar um grupo de consumidores:

```
PS C:\Users\iques\OneDrive\Area de Trabalho\Nivel5-M4\web-apps-node-iot-hub-data-visualization-master> az group create --name MeuGrupoDeRecursos --location "East US"

>> az iot hub consumer-group create --hub-name MeuIoTHub --name grupo-recursos

{
    "id": "/subscriptions/0d7b6093-f0ab-4649-9f45-6a0ac4a61cf3/resourceGroups/MeuGrupoDeRecursos",
    "location": "eastus",
    "managedBy": null,
    "name": "MeuGrupoDeRecursos",
    "properties": {
        "provisioningState": "Succeeded"
    },
    "tags": null,
        type": "Microsoft.Resources/resourceGroups"
}
```

Resposta do terminal:

```
PS C:\Users\iques\OneDrive\Área de Trabalho\Nivel5-M4\web-apps-node-iothub-data-visualization-master> az iot hub create --name MeuloTHub -- resource-group MeuGrupoDeRecursos --sku S1 --location "East US" 
{
    "etag": "AAAAAAYAAAA=",
    "id": "/subscriptions/0d7b6093-f0ab-4649-9f45-6a0ac4a61cf3/resourceGroups/MeuGrupoDeRecursos/providers/Microsoft.Devi ces/lotHubs/MeuloTHub",
    "identity": {
        "principalId": null,
        "type": "None",
        "userAssignedIdentities": null
    },
    "location": "eastus",
```

```
"name": "MeuloTHub",
 "properties": {
  "allowedFqdnList": [],
  "authorizationPolicies": null,
  "cloudToDevice": {
   "defaultTtlAsIso8601": "1:00:00",
   "feedback": {
     "lockDurationAsIso8601": "0:00:05",
     "maxDeliveryCount": 10,
     "ttlAsIso8601": "1:00:00"
   },
   "maxDeliveryCount": 10
  },
  "comments": null,
  "deviceStreams": null,
  "disableDeviceSas": null,
  "disableLocalAuth": null,
  "disableModuleSas": null,
  "enableDataResidency": null,
  "enableFileUploadNotifications": false,
  "encryption": null,
  "eventHubEndpoints": {
   "events": {
     "endpoint": "sb://iothub-ns-meuiothub-60006561-
dcdec9b812.servicebus.windows.net/",
     "partitionCount": 4,
     "partitionIds": [
      "0",
      "1",
      "2",
      "3"
```

```
],
  "path": "meuiothub",
  "retentionTimeInDays": 1
 }
},
"features": "RootCertificateV2",
"hostName": "MeuloTHub.azure-devices.net",
"ipFilterRules": [],
"ipVersion": null,
"locations": [
 {
  "location": "East US",
  "role": "primary"
 },
  "location": "West US",
  "role": "secondary"
 }
],
"messagingEndpoints": {
 "fileNotifications": {
  "lockDurationAsIso8601": "0:00:05",
  "maxDeliveryCount": 10,
  "ttlAsIso8601": "1:00:00"
 }
},
"minTlsVersion": null,
"networkRuleSets": null,
"privateEndpointConnections": null,
"provisioningState": "Succeeded",
```

```
"publicNetworkAccess": null,
"restrictOutboundNetworkAccess": null,
"rootCertificate": {
 "enableRootCertificateV2": true,
 "lastUpdatedTimeUtc": "2024-06-05T00:23:41.477440+00:00"
},
"routing": {
 "endpoints": {
  "cosmosDbSqlContainers": [],
  "eventHubs": [],
  "serviceBusQueues": [],
  "serviceBusTopics": [],
  "storageContainers": []
 },
 "enrichments": null,
 "fallbackRoute": {
  "condition": "true",
  "endpointNames": [
    "events"
  ],
  "isEnabled": true,
  "name": "$fallback",
  "source": "DeviceMessages"
 },
 "routes": []
},
"state": "Active",
"storageEndpoints": {
 "$default": {
  "authenticationType": null,
```

```
"connectionString": "",
     "containerName": "",
     "identity": null,
     "sasTtlAsIso8601": "1:00:00"
   }
  }
 },
 "resourcegroup": "MeuGrupoDeRecursos",
 "sku": {
  "capacity": 1,
  "name": "S1",
  "tier": "Standard"
 "subscriptionid": "0d7b6093-f0ab-4649-9f45-6a0ac4a61cf3",
 "systemData": {
  "createdAt": "2024-06-05T00:24:05.046666+00:00",
  "createdBy": null,
  "createdByType": null,
  "lastModifiedAt": null,
  "lastModifiedBy": null,
  "lastModifiedByType": null
 },
 "tags": {},
 "type": "Microsoft.Devices/lotHubs"
}
```

4 - Definir variáveis de ambiente:

```
PS C:\Users\iques\OneDrive\\rea de Trabalho\Nivel5-M4\web-apps-node-iot-hub-data-visualization-master>
```

5 - Rodando aplicação:

```
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. {
    "connectionString": "HostName=MeuIoTHub.azure-devices.net;SharedAccessKeyName=service;SharedAccessKey=TSUpzE6ml5/fgPxDFM30ejN8PW//aABXuAIoTPtXxVg="
}
PS C:\USers\iques\OneDrive\Area de Trabalho\Nivel5-M4\web-apps-node-iot-hub-data-visualization-master> npm run
Lifecycle scripts included in webapp@0.0.1:
    start
    node server.js
```

found @ vulnerabilities PS C:\Users\iques\OneDrive\Área de Trabalho\Nivel5-M4\web-apps-node-iot-hub-data-visualization-master> npm start > webapp@@0.0.1 start > node server.js Environment variable IotHubConnectionString must be specified. PS C:\Users\iques\OneDrive\Área de Trabalho\Nivel5-M4\web-apps-node-iot-hub-data-visualization-master> []

