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ENTREGÁVEL SPRINT 3

Objetivo: Criar um banco de dados NO-SQL na azure no serviço cosmosdb, e uma collection com o shard key e o throughput de 400.

Resultados esperados: Comandos necessários para as criações, e os prints da tela, pode até ser dentro do Visual Studio Code via plugin visual. (utilizamos o cmd).

Fazer login:

az login

```
Administrador Prompt de Comando
Microsoft Windows [versão 10.0.22000.2538]
(c) Microsoft Corporation. Todos os direitos reservados.

C:\Windows\system32>az login
Select the account you want to log in with. For more information on login with Azure CLI, see https://go.microsoft.com/fwlink/?linkid=2271136

Retrieving tenants and subscriptions for the selection...

[Tenant and subscription selection]

No. Subscription name Subscription ID Tenant
-----
[1] * Azure for Students 7a8c12fb-d631-4896-81fc-d335afeec6c2 Fiap-Faculdade de Inform
tica e Administração Paulista
The default is marked with an *; the default tenant is 'Fiap-Faculdade de Informática e Administração Paulista' and subscription is 'Azure for Students' (7a8c12fb-d631-4896-81fc-d335afeec6c2).

Select a subscription and tenant (Type a number or Enter for no changes): 1

Tenant: Fiap-Faculdade de Informática e Administração Paulista
Subscription: Azure for Students (7a8c12fb-d631-4896-81fc-d335afeec6c2)

[Announcements]
With the new Azure CLI login experience, you can select the subscription you want to use more easily. Learn more about it and its configuration at https://go.microsoft.com/fwlink/?linkid=2271236
If you encounter any problem, please open an issue at https://aka.ms/azclibug

[Warning] The login output has been updated. Please be aware that it no longer displays the full list of available subscriptions by default.
```

Criar o grupo de recursos:

az group create --name MeuGrupoDeRecursos --location brazilsouth

```
[Warning] The login output has been updated. Please be aware that it no longer displays the full list of available subscriptions by default.

C:\Windows\system32>az group create --name MeuGrupoDeRecursos --location brazilsouth
{
  "id": "/subscriptions/7a8c12fb-d631-4896-81fc-d335afeec6c2/resourceGroups/MeuGrupoDeRecursos",
  "location": "brazilsouth",
  "managedBy": null,
  "name": "MeuGrupoDeRecursos",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
```

Criar a conta Cosmos DB:

az cosmosdb create --name minhacontacosmosdb --resource-group MeuGrupoDeRecursos --locations regionName=brazilsouth failoverPriority=0 --default-consistency-level Eventual --kind GlobalDocumentDB

```
C:\Windows\system32>az cosmosdb create --name minhacontacosmosdb --resource-group MeuGrupoDeRecursos --locations regionName=brazilsouth failoverPriority=0 --default-consistency-level Eventual --kind GlobalDocumentDB
{
  "analyticalStorageConfiguration": {
    "schemaType": "WellDefined"
  },
  "apiProperties": null,
  "backupPolicy": {
    "migrationState": null,
    "periodicJobProperties": {
      "backupIntervalInMinutes": 240,
      "backupRetentionIntervalInHours": 8,
      "backupStorageRedundancy": "Geo"
    },
    "type": "Periodic"
  },
  "capabilities": [],
  "capacity": null,
  "connectorOffer": null,
  "consistencyPolicy": {
    "defaultConsistencyLevel": "Eventual",
    "maxIntervalInSeconds": 5,
    "maxStalenessPrefix": 100
  },
  "cors": [],
  "createMode": null,
  "customerManagedKeyStatus": null,
  "databaseAccountOfferType": "Standard",
  "defaultIdentity": "FirstPartyIdentity",
  "disableKeyBasedMetadataWriteAccess": false,
  "disableLocalAuth": false,
  "documentEndpoint": "https://minhacontacosmosdb.documents.azure.com:443/",
  "enableAnalyticalStorage": false,
  "enableAutomaticFailover": false,
  "enableElasticCapacity": false,
  "enableCassandraConnector": null,
  "enableFreeTier": false,
  "enableMultipleWriteLocations": false,
  "enablePartitionMerge": false,
  "failoverPolicies": [
    {
      "failoverPriority": 0,
      "id": "minhacontacosmosdb-brazilsouth",
      "locationName": "Brazil South"
    }
  ],
  "id": "/subscriptions/7a8c12fb-d631-4896-81fc-d335afeec6c2/resourceGroups/MeuGrupoDeRecursos/providers/Microsoft.DocumentDB/databaseAccounts/minhacontacosmosdb",
  "identity": {

```

```
Administrator: Prompt de Comando

{
  "id": "/subscriptions/7a8c12fb-d631-4896-81fc-d335afeec6c2/resourceGroups/MeuGrupoDeRecursos/providers/Microsoft.DocumentDB/databaseAccounts/minhacontacosmosdb",
  "identity": {
    "principalId": null,
    "tenantId": null,
    "type": "None",
    "userAssignedIdentities": null
  },
  "instanceId": "1302922d-7ee4-46ca-9d87-d80356b1aaea",
  "ipRules": [],
  "isVirtualNetworkFilterEnabled": false,
  "keyVaultKeyUri": null,
  "keyMetadata": {
    "primaryMasterKey": {
      "generationTime": "2024-08-21T23:22:27.738755+00:00"
    },
    "primaryReadOnlyMasterKey": {
      "generationTime": "2024-08-21T23:22:27.738755+00:00"
    },
    "secondaryMasterKey": {
      "generationTime": "2024-08-21T23:22:27.738755+00:00"
    },
    "secondaryReadOnlyMasterKey": {
      "generationTime": "2024-08-21T23:22:27.738755+00:00"
    }
  },
  "kind": "GlobalDocumentDB",
  "location": "Brazil South",
  "locations": [
    {
      "documentEndpoint": "https://minhacontacosmosdb-brazilsouth.documents.azure.com:443/",
      "failoverPriority": 0,
      "id": "minhacontacosmosdb-brazilsouth",
      "isZoneRedundant": false,
      "locationName": "Brazil South",
      "provisioningState": "Succeeded"
    }
  ],
  "minimalApiVersion": "11.12",
  "name": "minhacontacosmosdb",
  "networkAclBypass": "None",
  "networkAclBypassResourceIds": [],
  "privateEndpointConnections": null,
  "provisioningState": "Succeeded",
  "publicNetworkAccess": "Enabled",
  "readLocations": [
    {
      "documentEndpoint": "https://minhacontacosmosdb-brazilsouth.documents.azure.com:443/",
      "failoverPriority": 0,
      "id": "minhacontacosmosdb-brazilsouth",

```

```
Administrator: Prompt de Comando

{
  "documentEndpoint": "https://minhacontacosmosdb-brazilsouth.documents.azure.com:443/",
  "failoverPriority": 0,
  "id": "minhacontacosmosdb-brazilsouth",
  "isZoneRedundant": false,
  "locationName": "Brazil South",
  "provisioningState": "Succeeded"
}
}
"resourceGroup": "MeuGrupoDeRecursos",
"restoreParameters": null,
"systemData": {
  "createdAt": "2024-08-21T23:22:27.738755+00:00",
  "createdBy": null,
  "createdByType": null,
  "lastModifiedAt": null,
  "lastModifiedBy": null,
  "lastModifiedByType": null
},
"tags": {},
"type": "Microsoft.DocumentDB/databaseAccounts",
"virtualNetworkRules": [],
"writeLocations": [
  {
    "documentEndpoint": "https://minhacontacosmosdb-brazilsouth.documents.azure.com:443/",
    "failoverPriority": 0,
    "id": "minhacontacosmosdb-brazilsouth",
    "isZoneRedundant": false,
    "locationName": "Brazil South",
    "provisioningState": "Succeeded"
  }
]
}
```

Criar o banco de dados NoSQL:

az cosmosdb sql database create --account-name minhacontacosmosdb --resource-group MeuGrupoDeRecursos --name meubancodedados

```
C:\Windows\system32>az cosmosdb sql database create --account-name minhacontacosmosdb --resource-group MeuGrupoDeRecursos --name meubancodedados
{
  "id": "/subscriptions/7a8c12fb-d631-4896-b1fc-d33afeec6c2/resourceGroups/MeuGrupoDeRecursos/providers/Microsoft.DocumentDB/databaseAccounts/minhacontacosmosdb/sqlDatabases/meubancodedados",
  "location": null,
  "name": "meubancodedados",
  "options": null,
  "resource": {
    "self": "dbs/+/H2oA==/",
    "colls": "colls/",
    "createMode": null,
    "etag": "\"0000c302-0000-0b00-0000-66c6771c0000\"",
    "id": "meubancodedados",
    "restoreParameters": null,
    "rid": "H2oA==",
    "ts": 1724282652.0,
    "users": "users/"
  },
  "resourceGroup": "MeuGrupoDeRecursos",
  "tags": null,
  "type": "Microsoft.DocumentDB/databaseAccounts/sqlDatabases"
}
```

Criar uma Collection (Contêiner):

az cosmosdb sql container create --account-name minhacontacosmosdb --resource-group MeuGrupoDeRecursos --database-name meubancodedados --name minhacollection --partition-key-path /minhaShardKey --throughput 400

```
Administrator: Prompt de Comando

C:\Windows\system32>az cosmosdb sql container create --account-name minhacontacosmosdb --resource-group MeuGrupoDeRecursos --database-name meubancodedados --name minhacollection --partition-key-path /minhaShardKey --throughput 400
{
  "id": "/subscriptions/7a8c12fb-d631-4896-b1fc-d33afeec6c2/resourceGroups/MeuGrupoDeRecursos/providers/Microsoft.DocumentDB/databaseAccounts/minhacontacosmosdb/sqlDatabases/meubancodedados/containers/minhacollection",
  "location": null,
  "name": "minhacollection",
  "options": null,
  "resource": {
    "conflicts": "conflicts/",
    "docs": "docs/",
    "self": "dbs/+/H2oA==/colls/+/H2oA0c+Usb=/",
    "spdocs": "spdocs/",
    "triggers": "triggers/",
    "udfs": "udfs/",
    "analyticalStorageEtl": null,
    "clientEncryptionPolicy": null,
    "computedProperties": [],
    "conflictResolutionPolicy": {
      "conflictResolutionPath": "/ts",
      "conflictResolutionProcedure": "",
      "mode": "LastWriterWins"
    },
    "createMode": null,
    "defaultTtl": null,
    "etag": "\"0000c502-0000-0b00-0000-66c6779e0000\"",
    "geospatialConfig": {
      "type": "Geography"
    },
    "id": "minhacollection",
    "indexingPolicy": {
      "automatic": true,
      "compositeIndexes": null,
      "excludedPaths": [
        {
          "path": "/^/_etag$/?"
        }
      ],
      "includedPaths": [
        {
          "indexes": null,
          "path": "/*"
        }
      ],
      "indexingMode": "consistent",
      "spatialIndexes": null
    },
    "partitionKey": {

```

```

"automatic": true,
"compositeIndexes": null,
"excludedPaths": [
  {
    "path": "/\\_etag\\/"
  }
],
"includedPaths": [
  {
    "indexes": null,
    "path": "/"
  }
],
"indexingMode": "consistent",
"spatialIndexes": null
},
"partitionKey": {
  "kind": "Hash",
  "paths": [
    "/minhaShardKey"
  ]
},
"systemKey": null,
"version": null
},
"restoreParameters": null,
"rid": "HZoDc+UsB=",
"statistics": [
  {
    "documentCount": 0,
    "id": "0",
    "partitionKey": [],
    "sampleDistinctPartitionKeyCount": 0,
    "sizeInKB": 0
  }
],
"ts": 1724282782.0,
"uniqueKeyPolicy": {
  "uniqueKeys": []
}
},
"resourceGroup": "MeuGrupoDeRecursos",
"tags": null,
"type": "Microsoft.DocumentDB/databaseAccounts/sqlDatabases/containers"
}
C:\Windows\system32

```

Evidências:

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information. The main content area displays the 'MeuGrupoDeRecursos' resource group. On the left, there is a sidebar with navigation options like 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Resource visualizer', 'Events', 'Settings', 'Cost Management', 'Monitoring', 'Automation', and 'Help'. The 'Overview' tab is active, showing a list of resources. A table lists the resources with columns for Name, Type, and Location. One resource, 'minhacontacosmosdb', is highlighted. The bottom of the page shows pagination controls and a 'Give feedback' link.

The screenshot shows the Microsoft Azure portal interface for the 'minhacontacosmosdb' Azure Cosmos DB account. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information. The main content area displays the 'minhacontacosmosdb' resource. On the left, there is a sidebar with navigation options like 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Diagnose and solve problems', 'Cost Management', 'Quick start', 'Data Explorer', 'Settings', 'Integrations', 'Containers', 'Monitoring', 'Automation', and 'Help'. The 'Overview' tab is active, showing a table of containers. A table lists the containers with columns for ID, Database, and Throughput (RU/s). One container, 'minhacollection', is highlighted. Below the table, there are monitoring charts for 'Requests' and 'Estimated Cost (hourly)'. The 'Requests' chart shows a 'No data to display' message. The 'Estimated Cost (hourly)' chart shows a bar for 'Storage'.

Finalizar apagando Grupo de Recursos:

az group delete --name MeuGrupoDeRecursos --yes