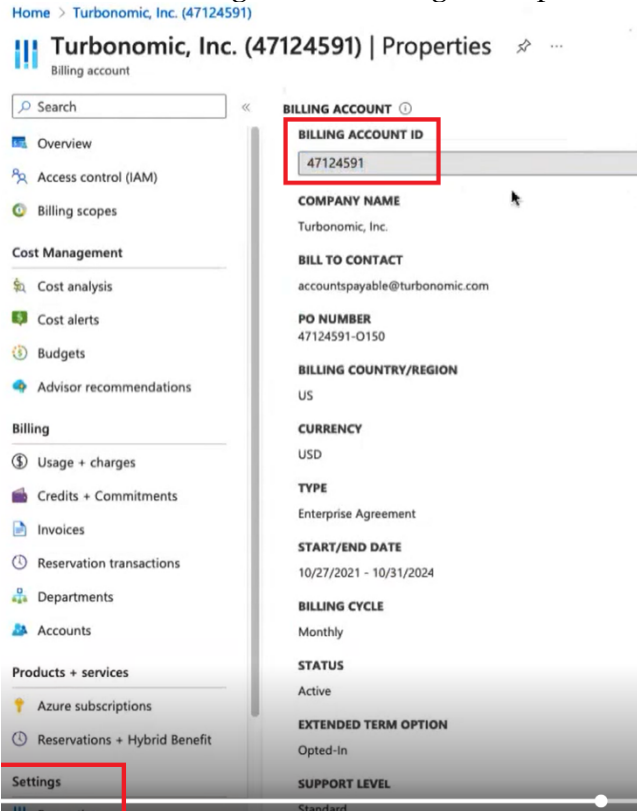


Procedimento de leitura do Cloud Billing da Azure no IBM Turbonomic

Por: Ricardo Kenji – Ricardo.kl@ibm.com

Etapas:

1. O Turbonomic deve estar na versão 8.8.4 ou maior.
2. Colete todos os Ids necessários:
 - a. Search -> Cost and Management + Billing -> Properties -> Billing Account ID

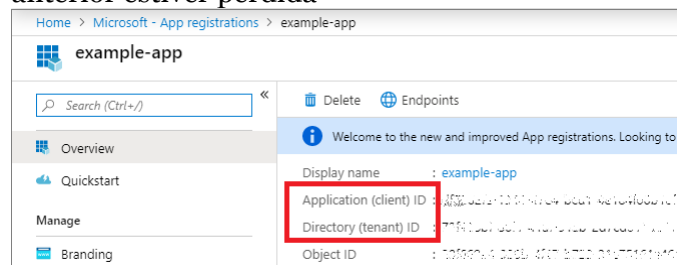


i.

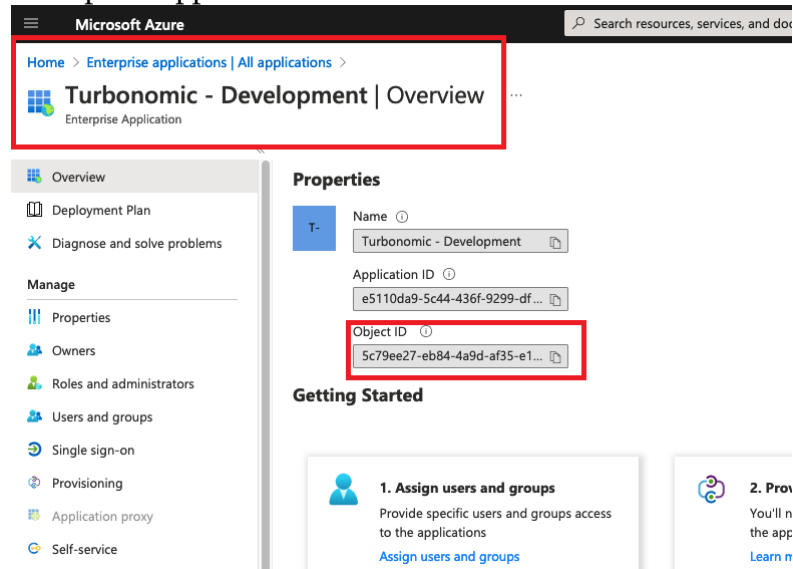
- b. Search -> App Registrations -> Encontre o Service Principal do Turbonomic e copie:

- i. Application (client) ID
- ii. Directory (tenant) ID
- iii. Client Secret Key: Você pode criar uma, caso não exista ou a senha anterior estiver perdida

iv.

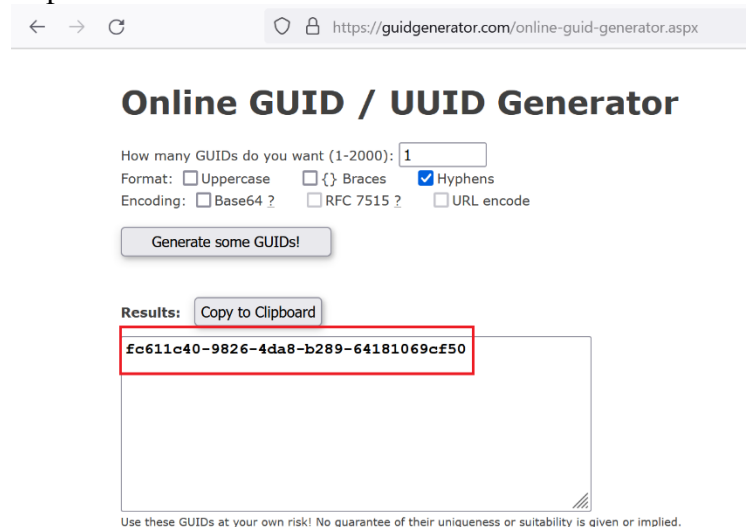


- c. Search -> Enterprise Applications -> Encontre o Service Principal do Turbonomic e copie:
- Object ID – Atenção: este Object ID é diferente do que aparece no passo 3b, NÃO use o Object ID da página App Registration. O correto é o Enterprise Applications.



- d. Acesse o <https://guidgenerator.com/> e clique em “Generate Some GUIDs!”, no qual vai gerar um ID único aleatório. Usaremos esse GUID no passo 4.

- Copie o GUID



-
-
- Agora precisamos colocar a role “EnrollmentReader” na Service Principal do Turbonomic. A Microsoft até o momento só permite fazer esta ação por chamadas na Azure API.
 - Vá até a essa URL e clique no botão verde “Try it” e faça login com um usuário privilegiado.
<https://learn.microsoft.com/en-us/rest/api/billing/2019-10-01-preview/role-assignments/put?tabs=HTTP>

Table of contents

Role Assignments - Put

Reference

Service: Billing

API Version: 2019-10-01-preview

Create or update a billing role assignment.

HTTP

Copy

Try it

PUT https://management.azure.com/providers/Microsoft.Billing/billingAccounts/{billingAccountName}/billingRoleAssignments/{billingRoleAssignmentName}

URI Parameters

Name	In	Required	Type	Description
billingAccountName	path	True	string	The ID that uniquely identifies a billing account.
billingRoleAssignmentName	path	True	string	The ID that uniquely identifies a role assignment.
api-version	query	True	string	The version of the API to be used with the client request. The current version is 2019-10-01-preview.

Request Body

Name	Type	Description
properties.principalId	string	The principal id of the user to whom the role was assigned.
properties.principalTenantId	string	The principal tenant id of the user to whom the role was assigned.

Exit focus mode

Sign in

b. Parâmetros:

- billingAccountName – Billing Account Id (passo 3a)
- billingRoleAssignmentName – the GUID we created (passo 3d)
- api-version – 2019-10-01-preview

c. Mantenha o Headers como está

d. Body – neste campo, usaremos o JSON abaixo substituindo os seguintes valores:

- principalId - Object Id (passo 2c)
- principalTenantId – Tenant Id (passo 2bii)
- roleDefinitionId – troque o {BillingAccountName} pelo Billing Account Id (passo 2a), e mantenha o resto intacto.

Conteúdo do JSON

(substitua os valores em negrito).

Para copiar sem perder formatação, acesse:

https://github.com/kakolima/azure/blob/main/EnablementReader_Role_Add.json

Atenção: o ID da Role EnrollmentReader é sempre “24f8edb6-1668-4659-b5e2-40bb5f3a7d7e”:

```
1 {
2   "properties": {
3     "principalId": "99a1a759-30dd-42c2-828c-db398826bb67",
4     "principalTenantId": "7ca289b9-c32d-4f01-8566-7ff93261d76f",
5     "roleDefinitionId": "/providers/Microsoft.Billing/billingAccounts/{BillingAccountName}/billingRoleDefinitions/24f8edb6-1668-4659-b5e2-40bb5f3a7d7e"
6   }
7 }
```

[Table of contents](#)
[Exit focus mode](#)

Role Assignments - Put

Reference
Service: Billing
API Version: 2019-10-01-preview

Create or update a billing role assignment.

HTTP Copy Try It

```
PUT https://management.azure.com/providers/Microsoft.Billing/billingAccounts/{billingAccountName}/billingRoleAssignments/{billingRoleAssignmentName}
```

URI Parameters

Name	In	Required	Type	Description
billingAccountName	path	True	string	The ID that uniquely identifies a billing account.
billingRoleAssignmentName	path	True	string	The ID that uniquely identifies a role assignment.
api-version	query	True	string	The version of the API to be used with the client request. The current version is 2019-10-01-preview.

Request Body

Name	Type	Description
properties.principalId	string	The principal id of the user to whom the role was assigned.

Headers

Content-Type+ application/json

Body

```
{
  "properties": {
    "principalId": "40cdd4ce-5ea0-4a6e-9593-572e13efff650",
    "principalTenantId": "e3267a76-a858-4ead-a71a-fa49332ae6879",
    "roleDefinitionId": "/providers/Microsoft.Billing/billingAccounts/92138549/billingRoleDefinitions/24f8ed06-1668-4659-d5e2-40bb5f3a7d7e"
  }
}
```

Request Preview

HTTP Copy

```
POT https://management.azure.com/providers/Microsoft.Billing/billingAccounts/92138549/billingRoleAssignments/18269cb0-...:
Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiIsInR5cCI6IkpzZW50L3VudC0iLCJpcyI6ImF1dG8iLCJhdWQiOiJ1bnQ1IiwiaWF0IjE5MjA5MTYxNjUwMDAwfQ==
Content-type: application/json
```

e. Após o Run, a resposta deverá ser 200

Request Preview

HTTP

Copy

```
PUT https://management.azure.com/providers/Microsoft.Billing/billingAccounts/111111/billingRoleAssignment
Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsIng1dCI6Im5PbzNaRHJPRFhFSzFqS1dowHNsSFJfS1hFZyIs
Content-type: application/json
```

Run ▶

🔍

4. Agora para finalizar, basta adicionar o target no Turbonomic.
 - a. Billing Account Id – passo 3a
 - b. Directory (Tenant) Id – passo 3bii
 - c. Application (Client) Id – passo 3bi

d. Client Secret Key – passo 3biii

< Add Azure Billing

DISPLAY NAME *

BILLING ACCOUNT ID *

☐ Use a cost export

DIRECTORY (TENANT) ID *

APPLICATION (CLIENT) ID *

CLIENT SECRET KEY *