

Gcloud - Módulo 1 | Automação Google Cloud - IAM Service Accounts - Rodrigo Marques

terça-feira, 11 de junho de 2024 23:36

```
Instalação do Gcloud cli

The following additional packages will be installed:
google-cloud-cli-anthoscli
Suggested packages:
google-cloud-cli-app-engine-java google-cloud-cli-app-engine-python google-cloud-cli-pubsub-emulator
google-cloud-cli-bigtable-emulator google-cloud-cli-datastore-emulator kubectl
The following NEW packages will be installed:
google-cloud-cli google-cloud-cli-anthoscli
0 upgraded, 2 newly installed, 0 to remove and 21 not upgraded.
Need to get 107 MB of archives.
After this operation, 614 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://packages.cloud.google.com/apt cloud-sdk/main amd64 google-cloud-cli amd64 480.0.0-0 [82.0 MB]
Get:2 https://packages.cloud.google.com/apt cloud-sdk/main amd64 google-cloud-cli-anthoscli amd64 480.0.0-0 [24.8 MB]
Fetched 107 MB in 17s (6258 kB/s)
Selecting previously unselected package google-cloud-cli.
(Reading database ... 24597 files and directories currently installed.)
Preparing to unpack .../google-cloud-cli_480.0.0-0_amd64.deb ...
Unpacking google-cloud-cli (480.0.0-0) ...
Selecting previously unselected package google-cloud-cli-anthoscli.
Preparing to unpack .../google-cloud-cli-anthoscli_480.0.0-0_amd64.deb ...
Unpacking google-cloud-cli-anthoscli (480.0.0-0) ...
Setting up google-cloud-cli (480.0.0-0) ...
Setting up google-cloud-cli-anthoscli (480.0.0-0) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.7) ...
ricoy@NotebookDell: $
```

Criação do service account

https://console.cloud.google.com/iam-admin/serviceaccounts?project=tcb-k8s-402422

Google Cloud tcb-k8s Search (/) for resources, docs, products, and more

IAM & Admin

- IAM
- PAM **NEW**
- Principal Access Boundar...
- Identity & Organization
- Policy Troubleshooter
- Policy Analyzer
- Organization Policies
- Service Accounts**
- Workload Identity Federat...
- Workforce Identity Federe...
- Manage Resources
- Release Notes

Service accounts + CREATE SERVICE ACCOUNT DELETE +MANAGE ACCESS REFRESH LEARN

Starting June 16, 2024, Google will automatically disable service account keys detected in public repositories. You can customize this behavior by using the 'iam.serviceAccountKeyExposureResponse' organization policy. [Learn more](#)

DISMISS

Service accounts for project "tcb-k8s"

A service account represents a Google Cloud service identity, such as code running on Compute Engine VMs, App Engine apps, or systems running outside Google. [Learn more about service accounts.](#)

Organization policies can be used to secure service accounts and block risky service account features, such as automatic IAM Grants, key creation/upload, or the creation of service accounts entirely. [Learn more about service account organization policies.](#)

Filter	Email	Status	Name	Description	Key ID	Key creation date	OAuth	Actions
	automation@tcb-k8s-402422.iam.gserviceaccount.com	Enabled	automation		No keys		10887	
	890709036894-compute@developer.gserviceaccount.com	Enabled	Compute Engine default service account		No keys		10102	

Execução do script python para listagem dos buckets criados na GCP através do SDK

```
Welcome | list_storage.py X
home > ricoy > gcloud-mod01 > list_storage.py > ...
1  from google.cloud import storage
2
3  import sys
4
5  key = sys.argv[1]
6  storage_client = storage.Client.from_service_account_json(key)
7
8  buckets = list(storage_client.list_buckets())
9
10 print(buckets)
11
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
ricoy@NotebookDell:~/gcloud-mod01$ python3 list_storage.py tcb-k8s-402422-b11da853f583.json
[<Bucket: artifacts.tcb-k8s-402422.appspot.com>, <Bucket: tcb-gcp-ricoy-01>]
ricoy@NotebookDell:~/gcloud-mod01$
```

Ln 11, Col 1 Spaces: 4 UTF-8 LF Python 3.10.12 64-bit

Criação de novo bucket via SDK python

```
Welcome | list_storage.py X | import_bucket.py X
home > ricoy > gcloud-mod01 > import_bucket.py > ...
4
5 import sys
6
7 key = sys.argv[1]
8
9 storage_client = storage.Client.from_service_account_json(key)
10
11 bucket_name = "tcb-gcp-ricoy-02"
12
13 bucket = storage_client.create_bucket(bucket_name)
14
15 buckets = list(storage_client.list_buckets())
16
17 print(*buckets, sep="\n")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
ricoy@NotebookDell:~/gcloud-mod01$ python3 import_bucket.py tcb-k8s-402422-b11da853f583.json
<Bucket: artifacts.tcb-k8s-402422.appspot.com>
<Bucket: tcb-gcp-ricoy-01>
<Bucket: tcb-gcp-ricoy-02>
ricoy@NotebookDell:~/gcloud-mod01$
```

Ln 9, Col 32 Spaces: 4 UTF-8 LF Python 3.10.12 64-bit

Visualização dos buckets criados pelo console da GCP

Google Cloud

tcb-k8s

Search (/) for resources, docs, products, and more

Search

Cloud Storage

Buckets

Monitoring

Settings

Soft Delete is now available

When enabled on a bucket, Soft Delete protects objects from accidental or malicious deletions. A 7 day Soft Delete policy has been added to all existing buckets. This is the default policy for new buckets.

LEARN MORE

Transfer

New

Power near real-time analytics and replication with event-driven transfers

You can now capture changes faster at your Google Cloud Storage and Amazon S3 sources via event-driven transfers, enabling you to act on your data in near real time. To get started, create a transfer job with a Pub/Sub- or AWS S3-based event stream configured to send event notifications when objects are created or updated.

CREATE TRANSFER JOB

LEARN MORE

Filter Filter buckets

<input type="checkbox"/>	Name ↑	Created	Location type	Location	Default storage class	Last modified
<input type="checkbox"/>	artifacts.tcb-k8s-402422.appspot.com	Nov 15, 2023, 8:14:01 PM	Multi-region	us	Standard	Nov 15, 2023, 8:14:01 PM
<input type="checkbox"/>	tcb-gcp-ricoy-01	Jun 12, 2024, 10:05:59 PM	Region	us-east1	Standard	Jun 12, 2024, 10:05:59 PM
<input type="checkbox"/>	tcb-gcp-ricoy-02	Jun 12, 2024, 10:21:05 PM	Multi-region	us	Standard	Jun 12, 2024, 10:21:05 PM

Marketplace

Release Notes

<1

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