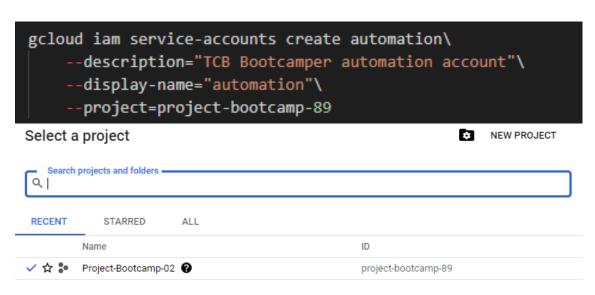


Requirements

- Install Python
- Install SDK

After install SDK update with commands below

- pip install upgrade google-cloud-storage
- pip install upgrade google-cloud-compute
- > pip install upgrade google-api-python-client
- pip install upgrade oauth2client
- Creation Project in GCP



Creation IAM Service and change roles

```
gcloud iam service-accounts create create automation \
    --description="TCB Bootcamper automation account" \
    --display-name="automation1"

gcloud iam roles describe roles/storage.admin
gcloud projects add-iam-policy-binding bootcamp-gcp-03 \
    --member="serviceAccount:automation@project-bootcamp-89.iam.gserviceaccount.com"\
    --role="roles\storage.admin"
```

• Creation key and download.

```
# get full email id of new service account
emailId=$(gcloud iam service-accounts list --filter="email ~ ^automation" --format='value(email)')
# download key for service account
gcloud iam service-accounts keys create automation.json --iam-account $\frac{1}{2}$emailId
```

• Creation, Upload and List Bucket

```
#Create bucket storage
gsutil mb gs://iam-service-account-2

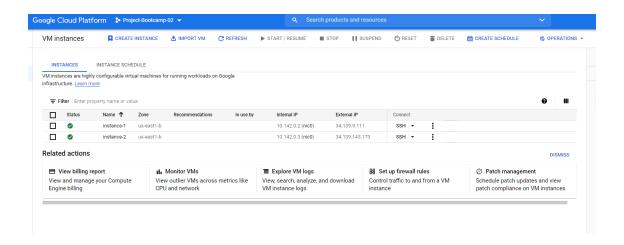
Validando o bucket criado anteriormente
##Copy
gsutil cp "FileName"
##List
gsutil ls gs://iam-service-account-2
```

```
FelipePiton@Intrepid MINGW64 ~/Desktop/Bootcamp/GCP/Missão-1
$ python ./lista_storage.py bootcamp-gcp-felipepiton-efbcce1a4110.json
[<Bucket: iam-service-account-1>]
```

Desafio SDK



After completing the module 2 Hands-on Project, your manager calls you to propose an extra challenge and he asks: "Would it be possible for this python script, making a small adjustment, to read all the virtual machines that are created there in the Google Cloud?" And now? Is it possible to read all virtual machines created on Google Cloud? How could it be that by making a small adjustment to the file, it would be possible to complete this challenge? Tip for creating the virtual machines: In the contents, Herbert teaches you how to create 3 virtual machines with just one command using gcloud and you can use this information to create the virtual machines .SDK Challenge.



```
# To secure in your gload environment run the line below

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# To secure in your gload environment run the line below

# To secure in your gload environment run

# Project line in request.

# Project line for this request.

# Project l
```

```
FelipePiton@Intrepid MINGW64 ~/Desktop/Felipe/Curso/Bootcamp/GCP/Missão-1
$ py ./gcp_list_vms.py
NAME ZONE MACHINE_TYPE PREEMPTIBLE INTERNAL_IP EXTERNAL_IP STATUS
instance-1 us-east1-b e2-medium False 10.142.0.2 34.139.9.111 RUNNING
instance-2 us-east1-b e2-medium False 10.142.0.3 34.139.143.173 RUNNING
FelipePiton@Intrepid MINGW64 ~/Desktop/Felipe/Curso/Bootcamp/GCP/Missão-1
$
```