Seif Eldin Mohamed Aboelhassan Mohamed Hendawy
Lab 1

- Create your project, list your project details

- Set budget and Alerts (b: 20$/ a: 17,5$, 10%, 5$)

Budget name ↑	Budget period	Budget type	Applies to	Trigger alerts at	Spend and budget amount	
☐ FirstBdgtGCP	Monthly	Specified amount	Project "ITI-Experiment"	10%, 25%, and 85%		$0.00 / $20.00 No credits used

- Add your Friend as viewer, What is the role type?

Resource

⬌ ITI-Experiment

Add principals

Principals are users, groups, domains, or service accounts. Learn more about principals in IAM ⬈

New principals *
abdelrahman.a171@gmail.com ✕   ❓

Assign roles

Roles are composed of sets of permissions and determine what the principal can do with this resource. Learn more ⬈

Role *
Viewer   ▾   IAM condition (optional) ❓   🗑

View most Google Cloud resources.   + ADD IAM CONDITION
See the list of included permissions.

+ ADD ANOTHER ROLE

SAVE   CANCEL

- Restrict his viewer to view the VPC networks only.

Edit access to "ITI-Experiment"

Principal ❓
abdelrahman.A171@gmail.com

Project
ITI-Experiment

Assign roles

Roles are composed of sets of permissions and determine what the principal can do with this resource. Learn more ↗

Role
Viewer ▾

IAM condition (optional) ❓
➕ ADD IAM CONDITION

🗑

View most Google Cloud resources.
See the list of included permissions.

Role
Custom Compute Network Viewer ▾

IAM condition (optional) ❓
➕ ADD IAM CONDITION

🗑

Created on: 2023-10-06 Based on:
Compute Network Viewer

➕ ADD ANOTHER ROLE

SAVE   TEST CHANGES ⓘ   CANCEL

Summary of changes

Roles removed
n/a

Role added
Custom Compute Network V...

TEST CHANGES   ⓘ

- Create <u>Service account</u> with compute.instances.list & compute.instnaces.get permissions

← **Create Role**

Custom roles let you group permissions and assign them to principals in your project or organization. You can manually select permissions or import permissions from another role. Learn more 🔗

Title *
Get & List

10 / 100 characters

Description
Created on: 2023-10-06

22 / 256 characters

ID *
CustomRole

Role launch stage
Alpha ▼

+ ADD PERMISSIONS

2 assigned permissions

☰ Filter	Enter property name or value	❓	⦀

☑	Permission ↑	Status
☑	compute.instances.get	Supported
☑	compute.instances.list	Supported

Edit access to "ITI-Experiment"

Principal ❓   **Project**
abdelrahman.A171@gmail.com   ITI-Experiment

Assign roles

Roles are composed of sets of permissions and determine what the principal can do with this resource. Learn more 🔗

Role
Custom Compute Network Viewer ▼   IAM condition (optional) ❓   🗑
                                    + ADD IAM CONDITION
Created on: 2023-10-06 Based on:
Compute Network Viewer

Role
Viewer ▼   IAM condition (optional) ❓   🗑
                                    + ADD IAM CONDITION
View most Google Cloud resources.
See the list of included permissions.

Role
Get & List ▼   IAM condition (optional) ❓   🗑
                                    + ADD IAM CONDITION
Created on: 2023-10-06

+ ADD ANOTHER ROLE

SAVE   TEST CHANGES ⓘ   CANCEL

Summary of changes

Roles removed
n/a

Role added
Get & List

TEST CHANGES ⓘ

☐ 🖳   svc-acc@iti-experiment.iam.gserviceaccount.com   svc-acc   Get & List

- Create a python app that prints the projectId (hint : API).

```python
from google.oauth2 import service_account

key_file_path = 'D:/Education/ITI/DevOps ITI/Weel 14/1 Google Cloud Platform/Day 01/Lab 1/iti-experiment-f54a4147ca0c.json'

credentials = service_account.Credentials.from_service_account_file(
    key_file_path, scopes=['https://www.googleapis.com/auth/cloud-platform'])

project_id = credentials.project_id
print("Project ID:", project_id)
```

```
[Running] python -u "d:\Education\ITI\DevOps ITI\Weel 14\1 Google Cloud Platform\Day 01\Lab 1\Lab-1.py"
Project ID: iti-experiment

[Done] exited with code=0 in 0.574 seconds
```

- List the projects using SDK.

Local

```
D:\Education\ITI\DevOps ITI\Weel 14\1 Google Cloud Platform\Day 01\Lab 1>gcloud projects list
PROJECT_ID       NAME             PROJECT_NUMBER
iti-experiment   ITI-Experiment   619429842382
```

GCP shell

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to iti-experiment.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
seifhendawy1@cloudshell:~ (iti-experiment)$ gcloud projects list
PROJECT_ID: iti-experiment
NAME: ITI-Experiment
PROJECT_NUMBER: 619429842382
seifhendawy1@cloudshell:~ (iti-experiment)$
```

- Use the cloud shell to auth the pervious SA and set the current project as your default project.

Local

```
D:\Education\ITI\DevOps ITI\Weel 14\1 Google Cloud Platform\Day 01\Lab 1>gcloud config set project iti-experiment
Updated property [core/project].
```

```
D:\Education\ITI\DevOps ITI\Week 14\1 Google Cloud Platform\Day 01\Lab 1>gcloud auth activate-service-account --key-file=iti-experiment-f54a4147ca0c.json
Activated service account credentials for: [svc-acc@iti-experiment.iam.gserviceaccount.com]
```

GCP Shell

```
seifhendawy1@cloudshell:~ (iti-experiment)$ cat iti-experiment-f54a4147ca0c.json
cat: iti-experiment-f54a4147ca0c.json: No such file or directory
seifhendawy1@cloudshell:~ (iti-experiment)$ touch iti-experiment-f54a4147ca0c.json
seifhendawy1@cloudshell:~ (iti-experiment)$ cat iti-experiment-f54a4147ca0c.json
seifhendawy1@cloudshell:~ (iti-experiment)$ vi iti-experiment-f54a4147ca0c.json
seifhendawy1@cloudshell:~ (iti-experiment)$ gcloud auth activate-service-account --key-file=iti-experiment-f54a4147ca0c.json
Activated service account credentials for: [svc-acc@iti-experiment.iam.gserviceaccount.com]
seifhendawy1@cloudshell:~ (iti-experiment)$
```