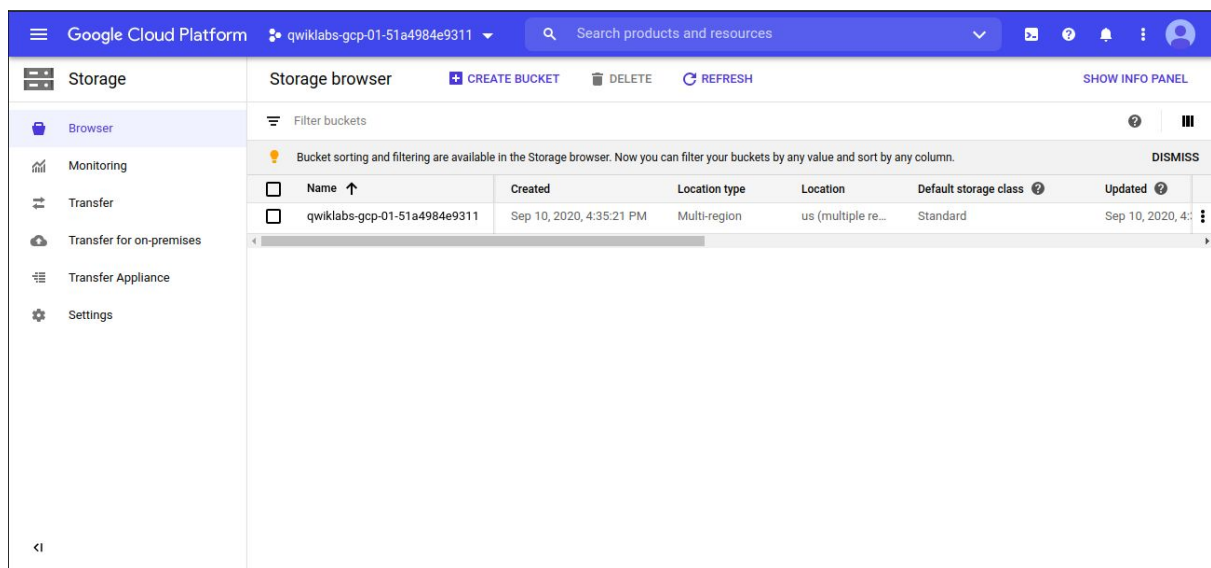


Console and Cloud Shell

Lab Objectives

- Get access to Google Cloud
- Create a cloud Storage bucket using the Cloud Console
- Create a Cloud Storage bucket using Cloud Shell
- Become familiar with Cloud Shell features

This lab's main purpose is to get us familiarized with the GCP Console and Cloud Shell. We first created a bucket with the GCP Console.



[Created bucket with console]

We then created a second bucket using the cloud Shell:

Storage browser

Filter buckets

Bucket sorting and filtering are available in the Storage browser. Now you can filter your buckets by any value and sort by any column.

Name	Created	Location type	Location	Default storage class	Updated
quwiklabs-gcp-01-51a4984e9311	Sep 10, 2020, 4:35:21 PM	Multi-region	us (multiple re...	Standard	Sep 10, 2020, .
quwiklabs-gcp-01-51a4984e9311-2	Sep 10, 2020, 4:44:03 PM	Multi-region	us (multiple re...	Standard	Sep 10, 2020, .

Cloud Shell Terminal

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to qwiklabs-gcp-01-51a4984e9311.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
student_01_69c186598152@cloudshell:~ (quwiklabs-gcp-01-51a4984e9311)$ gsutil mb create gs://quwiklabs-gcp-01-51a4984e9311-2
CommandException: "mb" command does not support "file://" URLs. Did you mean to use a gs:// URL?
student_01_69c186598152@cloudshell:~ (quwiklabs-gcp-01-51a4984e9311)$ gsutil mb gs://quwiklabs-gcp-01-51a4984e9311-2
Creating gs://quwiklabs-gcp-01-51a4984e9311-2/.
student_01_69c186598152@cloudshell:~ (quwiklabs-gcp-01-51a4984e9311)$
```

[Created bucket with Cloud shell]

We also uploaded a file into our project. We copied this file into our first bucket storage with the *gsutil mb* command.

Bucket details

Buckets > qwiklabs-gcp-01-51a4984e9311

UPLOAD FILES UPLOAD FOLDER CREATE FOLDER MANAGE HOLDS DELETE

Filter by object or folder name prefix

Name	Size	Type	Created time	Storage class	Last modified	Public access	Encryption
cloud_vm_interface	109.4 KB	image/png	Sep 10, 2020, 4...	Standard	Sep 10, 20...	Not public	Google-manage...

Cloud Shell Terminal

```
student_01_69c186598152@cloudshell:~ (quwiklabs-gcp-01-51a4984e9311)$ gsutil cp cloud_vm_interface.png gs://quwiklabs-gcp-01-51a4984e9311
Copying file://cloud_vm_interface.png [Content-Type=image/png]...
- [1 files][109.4 KiB/109.4 KiB]
Operation completed over 1 objects/109.4 KiB.
student_01_69c186598152@cloudshell:~ (quwiklabs-gcp-01-51a4984e9311)$
```

[Copied file into a bucket storage]

Let's note that **most** Google Cloud actions can be performed with the GCP console while **all** Google Cloud actions can be performed with the Cloud Shell. The Cloud shell provides the following:

- Temporary Compute Engine VM
- Command-line access to the instance via a browser
- 5 GB of persistent disk storage (\$HOME dir)
- Pre-installed Cloud SDK and other tools

- `gcloud`: for working with Google Compute Engine and many Google Cloud services
- `gsutil`: for working with Cloud Storage
- `kubectl`: for working with Google Container Engine and Kubernetes
- `bq`: for working with BigQuery
- Language support for Java, Go, Python, Node.js, PHP, and Ruby
- Web preview functionality
- Built-in authorization for access to resources and instances

We can also create a persistent state in Cloud Shell. This consists in putting some global variables (project id, zone name...) that are often used as values of some parameters into a file and modify the `.profile` file so that these values are available each time we load the cloud Shell.