

Cloud Storage: Qwik Start - CLI/SDK

GSP074



- Cloud Storage enables global storage and retrieval of unlimited data for websites, backups, and large file distribution.
- This lab teaches Cloud Storage management entirely through Google Cloud command line interface.
- Create storage buckets, upload objects, and organize data with folders and subfolders.
- Make objects publicly accessible for direct sharing and website content delivery.
- Verify all changes in real-time by refreshing the Cloud Storage browser console view.

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Dashboard Catalog Paths Collections

Contents Cloud Storage: Qwik Start - CLI/SDK

Activate Cloud Shell

End Lab 00:44:40

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. [Learn more.](#)

[Open Google Cloud Console](#)

Username: student-02-7516ed2a2ed9e

Password: 9ePfvejaFLwD

Project ID: qwiklabs-gcp-00-b713051e

Student Resources: [Google Cloud Storage: Massive Scalability Plus More](#)

0/100 Lab instructions and tasks

GSP074 Overview Setup and requirements

Task 1. Create a bucket Task 2. Upload an object into your bucket Task 3. Download an object from your bucket Task 4. Copy an object to a folder in the bucket Task 5. List contents of a bucket or folder Task 6. List details for an object Task 7. Make your object publicly accessible

When you are connected, you are already authenticated, and the project is set to your **Project_ID**, `qwiklabs-gcp-00-b713051620ed`. The output contains a line that declares the **Project_ID** for this session:

```
Your Cloud Platform project in this session is set to qwiklabs-gcp-00-b713051620ed.
```

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End Lab 00:44:21

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[Open Google Cloud Console](#)

Username: student-02-7516ed2a2ed9@qwiklabs.net

Password: 9ePfvejaFLwD

Project ID: qwiklabs-gcp-00-b7130516

Student Resources

[Google Cloud Storage: Massive Scalability Plus More](#)

3. (Optional) You can list the active account name with this command:

```
gcloud auth list
```

4. Click Authorize.

Output:

```
ACTIVE: *
ACCOUNT: student-02-7516ed2a2ed9@qwiklabs.net

To set the active account, run:
$ gcloud config set account `ACCOUNT`
```

5. (Optional) You can list the project ID with this command:

```
gcloud config list project
```

Output:

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- Overview
- Setup and requirements
- Task 1. Create a bucket
- Task 2. Upload an object into your bucket
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- Task 4. Copy an object to a folder in the bucket
- Task 5. List contents of a bucket or folder
- Task 6. List details for an object
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End Lab 00:44:13

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[Open Google Cloud Console](#)

Username: student-02-7516ed2a2ed9e

Password: 9ePfvejaFLwD

Project ID: quicklabs-gcp-00-b713051620ed

Student Resources: [Google Cloud Storage: Massive Scalability Plus More](#)

Output:

```
[core]
project = quicklabs-gcp-00-b713051620ed
```

Note: For full documentation of `gcloud`, in Google Cloud, refer to [the gcloud CLI overview guide](#).

Set the region

Set the project region for this lab:

```
gcloud config set compute/region us-west1
```

Task 1. Create a bucket

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Dashboard – qwiklabs-gcp-00-b713051620ed x +

https://console.cloud.google.com/home/dashboard?project=qwiklabs-gcp-00-b713051620ed&pli=1&cloudshell=true

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Google Cloud qwiklabs-gcp-00-b713051620ed Search (/) for resources, docs, products, and more Search

CLOUD SHELL Terminal (qwiklabs-gcp-00-b713051620ed) x + Open Editor

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

Don't show again Dismiss

Welcome to Cloud Shell! Type "help" to get started, or type "gemini" to try prompting with Gemini CLI.
Your Cloud Platform project in this session is set to **qwiklabs-gcp-00-b713051620ed**.
Use `gcloud config set project [PROJECT_ID]` to change to a different project.

```
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud auth list  
Credentialed Accounts  
  
ACTIVE: *  
ACCOUNT: student-02-7516ed2a2ed9@qwiklabs.net  
  
To set the active account, run:  
$ gcloud config set account `ACCOUNT`  
  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud config list project  
WARNING: Unable to get environment tag for project [qwiklabs-gcp-00-b713051620ed]:   
HttpError accessing <https://clouddrivelimits.googleapis.com/v1/projects/qwiklabs-gcp-00-b713051620ed?alt=json>: response: <{'vary': 'Origin, X-Origin, Referer', 'content-type': 'application/json; charset=UTF-8', 'content-encoding': 'gzip', 'date': 'Tue, 02 Dec 2025 16:00:55 GMT', 'server': 'ESF', 'x-xss-protection': '0', 'x-frame-options': 'SAMEORIGIN', 'x-content-type-options': 'nosniff', 'server-timing': 'gfet4t7; dur=1149', 'transfer-encoding': 'chunked', 'status': 403}>, content <{  
    "error": {  
        "code": 403,  
        "message": "Caller does not have required permission to use project qwiklabs-gcp-00-b713051620ed. Grant the caller the roles/serviceusage.serviceUsageConsumer role, or a custom role with the serviceusage.services.use permission, by visiting https://console.developers.google.com/iam-admin/iam/project?project=qwiklabs-gcp-00-b713051620ed and then retry. Propagation of the new permission may take a few minutes.",  
        "status": "PERMISSION_DENIED",  
        "details": [  
            {  
                "@type": "type.googleapis.com/google.rpc.ErrorInfo",  
                "reason": "USER_PROJECT_DENIED",  
                "domain": "googleapis.com",  
                "metadata": {  
                    "containerInfo": "qwiklabs-gcp-00-b713051620ed",  
                    "service": "clouddrivelimits.googleapis.com",  
                    "consumer": "projects/qwiklabs-gcp-00-b713051620ed"  
                }  
            },  
            {  
                "@type": "type.googleapis.com/google.rpc.ErrorInfo",  
                "reason": "USER_PROJECT_DENIED",  
                "domain": "googleapis.com",  
                "metadata": {  
                    "containerInfo": "qwiklabs-gcp-00-b713051620ed",  
                    "service": "clouddrivelimits.googleapis.com",  
                    "consumer": "projects/qwiklabs-gcp-00-b713051620ed"  
                }  
            }  
        ]  
    }  
}
```

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CLOUD SHELL Terminal (qwiklabs-gcp-00-b713051620ed) x + Open Editor

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

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```
"reason": "USER_PROJECT_DENIED",
"domain": "googleapis.com",
"metadata": {
    "containerInfo": "qwiklabs-gcp-00-b713051620ed",
    "service": "cloudresourcemanager.googleapis.com",
    "consumer": "projects/qwiklabs-gcp-00-b713051620ed"
},
{
    "@type": "type.googleapis.com/google.rpc.LocalizedMessage",
    "locale": "en-US",
    "message": "Caller does not have required permission to use project qwiklabs-gcp-00-b713051620ed. Grant the caller the roles/serviceusage.serviceUsageConsumer role, or a custom role with the serviceusage.services.use permission, by visiting https://console.developers.google.com/iam-admin/iam/project?project=qwiklabs-gcp-00-b713051620ed and then retry. Propagation of the new permission may take a few minutes."
},
{
    "@type": "type.googleapis.com/google.rpc.Help",
    "links": [
        {
            "description": "Google developer console IAM admin",
            "url": "https://console.developers.google.com/iam-admin/iam/project?project=qwiklabs-gcp-00-b713051620ed"
        }
    ]
}
]
}
>
[core]
project = qwiklabs-gcp-00-b713051620ed

Your active configuration is: [cloudshell-32399]
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud config set compute/region us-west1
Updated property [compute/region].
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
```

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Contents Cloud Storage: Qwik Start - CLI/SDK

End Lab 00:38:40

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[Open Google Cloud Console](#)

Username: student-02-7516ed2a2ed9e

Password: 9ePfvejaFLwD

Project ID: quicklabs-gcp-00-b713051e

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0/100 Lab instructions and tasks

GSP074

Overview

Setup and requirements

Task 1. Create a bucket

Task 2. Upload an object into your bucket

Task 3. Download an object from your bucket

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Task 5. List contents of a bucket or folder

Task 6. List details for an object

Task 7. Make your object publicly accessible

Task 1. Create a bucket

In this lab you use [gcloud storage](#) and [gsutil](#) commands.

When you create a bucket you must follow the universal bucket naming rules, below.

Bucket naming rules

- Do not include sensitive information in the bucket name, because the bucket namespace is global and publicly visible.
- Bucket names must contain only lowercase letters, numbers, dashes (-), underscores (_), and dots (.). Names containing dots require [verification](#).
- Bucket names must start and end with a number or letter.
- Bucket names must contain 3 to 63 characters. Names containing dots can contain up to 222 characters, but each dot-separated component can be no longer than 63 characters.
- Bucket names cannot be represented as an IP address in dotted-decimal notation (for example, 192.168.5.4).
- Bucket names cannot begin with the "goog" prefix.
- Bucket names cannot contain "google" or close misspellings of "google".
- Also, for DNS compliance and future compatibility, you should not use underscores (_) or have a period adjacent to another period or dash. For example, ".." or "-." or "-.-"

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Contents Cloud Storage: Qwik Start - CLI/SDK

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Project ID: qwiklabs-gcp-00-b713051

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GSP074 Overview Setup and requirements Task 1. Create a bucket Task 2. Upload an object into your bucket Task 3. Download an object from your bucket Task 4. Copy an object to a folder in the bucket Task 5. List contents of a bucket or folder Task 6. List details for an object Task 7. Make your object publicly accessible

Cloud Storage: Qwik Start - CLI/SDK

Bucket names cannot contain "google" or close misspellings of "google". Also, for DNS compliance and future compatibility, you should not use underscores (_) or have a period adjacent to another period or dash. For example, ".." or "-." or ".-" are not valid in DNS names.

Use the `make bucket (buckets create)` command to make a bucket, replacing <YOUR_BUCKET_NAME> with a unique name that follows the bucket naming rules:

```
gcloud storage buckets create gs://<YOUR-BUCKET-NAME>
```

This command is creating a bucket with default settings. To see what those default settings are, use the Cloud console **Navigation menu > Cloud Storage**, then click on your bucket name, and click on the **Configuration** tab.

That's it — you've just created a Cloud Storage bucket!

Note: If the bucket name is already taken, either by you or someone else, the command returns:

```
Creating gs://YOUR-BUCKET-NAME/...
ServiceException: 409 Bucket YOUR-BUCKET-NAME already exists.
```

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```
"metadata": {  
    "containerInfo": "qwiklabs-gcp-00-b713051620ed",  
    "service": "cloudresourcemanager.googleapis.com",  
    "consumer": "projects/qwiklabs-gcp-00-b713051620ed"  
},  
{  
    "@type": "type.googleapis.com/google.rpc.LocalizedMessage",  
    "locale": "en-US",  
    "message": "Caller does not have required permission to use project qwiklabs-gcp-00-b713051620ed. Grant the caller the roles/serviceusage.serviceUsageConsumer role, or a custom role with the serviceusage.services.use permission, by visiting https://console.developers.google.com/iam-admin/iam/project?project=qwiklabs-gcp-00-b713051620ed and then retry. Propagation of the new permission may take a few minutes."  
},  
{  
    "@type": "type.googleapis.com/google.rpc.Help",  
    "links": [  
        {  
            "description": "Google developer console IAM admin",  
            "url": "https://console.developers.google.com/iam-admin/iam/project?project=qwiklabs-gcp-00-b713051620ed"  
        }  
    ]  
}  
]  
}  
>  
[core]  
project = qwiklabs-gcp-00-b713051620ed  
  
Your active configuration is: [cloudshell-32399]  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud config set compute/region us-west1  
Updated property [compute/region].  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage buckets create gs://dev23_buc  
Creating gs://dev23_buc/...  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
```

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Task 2. Upload an object into your bucket

00:37:01

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[Learn more.](#)[Open Google Cloud Console](#)

Username

student-02-7516ed2a2ed9e



Password

9ePfvejaFLwD



Project ID

qwiklabs-gcp-00-b713051e



Student Resources

[Google Cloud Storage: Massive Scalability Plus More](#)

1. To download this image (ada.jpg) into your bucket, enter this command into Cloud Shell:

```
curl https://upload.wikimedia.org/wikipedia/commons/thumb/a/a4/Ada_Lovelace_portrait.jpg --output ada.jpg
```

2. Use the `gcloud storage cp` command to upload the image from the location where you saved it to the bucket you created:

```
gcloud storage cp ada.jpg gs://YOUR-BUCKET-NAME
```

Note: When typing your bucket name, you can use the tab key to autocomplete it.

You can see the image load into your bucket from the command line.

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Task 7. Make your object publicly accessible



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```
"locale": "en-US",
"message": "Caller does not have required permission to use project qwiklabs-gcp-00-b713051620ed. Grant the caller the roles/serviceusage.serviceConsumer role, or a custom role with the serviceusage.services.use permission, by visiting https://console.developers.google.com/iam-admin/iam/project?project=qwiklabs-gcp-00-b713051620ed and then retry. Propagation of the new permission may take a few minutes."
},
{
"@type": "type.googleapis.com/google.rpc.Help",
"links": [
{
"description": "Google developer console IAM admin",
"url": "https://console.developers.google.com/iam-admin/iam/project?project=qwiklabs-gcp-00-b713051620ed"
}
]
}
}
>
[core]
project = qwiklabs-gcp-00-b713051620ed

Your active configuration is: [cloudshell-32399]
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud config set compute/region us-west1
Updated property [compute/region].
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage buckets create gs://dev23_buc
Creating gs://dev23_buc...
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ curl https://upload.wikimedia.org/wikipedia/commons/thumb/a/a4/Ada_Lovelace_portrait.jpg/800px-Ada_Lovelace_portrait.jpg -o ada.jpg
% Total    % Received % Xferd  Average Speed   Time   Time     Time Current
          Dload  Upload Total Spent   Left Speed
100  361k  100  361k    0      0  5489k    0 ---:---:---:--- 5473k
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp ada.jpg gs://dev23_buc
Copying file://ada.jpg to gs://dev23_buc/ada.jpg
Completed files 1/1 | 361.3kiB/361.3kiB
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
```

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Cloud Storage: Qwik Start - CLI/SDK

End Lab 00:36:09

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[Open Google Cloud Console](#)

Username: student-02-7516ed2a2ed9e

Password: 9ePfvejaFLwD

Project ID: quicklabs-gcp-00-b713051e

Student Resources: [Google Cloud Storage: Massive Scalability Plus More](#)

gcloud storage cp ada.jpg gs://YOUR-BUCKET-NAME

Note: When typing your bucket name, you can use the tab key to autocomplete it.

You can see the image load into your bucket from the command line.

You've just stored an object in your bucket!

3. Now remove the downloaded image:

rm ada.jpg

Task 3. Download an object from your bucket

- Use the `gcloud storage cp` command to download the image you stored in your

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GSP074

Overview

Setup and requirements

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```
"message": "Caller does not have required permission to use project qwiklabs-gcp-00-b713051620ed. Grant the caller the roles/serviceusage.serviceUsageConsumer role, or a custom role with the serviceusage.services.use permission, by visiting https://console.developers.google.com/iam-admin/iam/project?project=qwiklabs-gcp-00-b713051620ed and then retry. Propagation of the new permission may take a few minutes."
},
{
"@type": "type.googleapis.com/google.rpc.Help",
"links": [
{
"description": "Google developer console IAM admin",
"url": "https://console.developers.google.com/iam-admin/iam/project?project=qwiklabs-gcp-00-b713051620ed"
}
]
}
>
[core]
project = qwiklabs-gcp-00-b713051620ed

Your active configuration is: [cloudshell-32399]
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud config set compute/region us-west1
Updated property [compute/region].
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage buckets create gs://dev23_buc
Creating gs://dev23_buc/...
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ curl https://upload.wikimedia.org/wikipedia/commons/thumb/a/a4/Ada_Lovelace_portrait.jpg/800px-Ada_Lovelace_portrait.jpg -o ada.jpg
% Total    % Received % Xferd  Average Speed   Time      Time     Current
                                         Dload  Upload Total Spent   Left  Speed
100  361k  100  361k    0     0  5489k  0 ---:---:---:---:---:--- 5473k
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp ada.jpg gs://dev23_buc
Copying file://ada.jpg to gs://dev23_buc/ada.jpg
Completed files 1/1 | 361.3kiB/361.3kiB
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ rm ada.jpg
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
```

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Cloud Storage: Qwik Start - CLI/SDK

End Lab 00:35:48

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Learn more.

Open Google Cloud Console

Username: student-02-7516ed2a2ed9e

Password: 9ePfvejaFLwD

Project ID: quicklabs-gcp-00-b713051e

Student Resources: Google Cloud Storage: Massive Scalability Plus More

Task 3. Download an object from your bucket

• Use the `gcloud storage cp` command to download the image you stored in your bucket to Cloud Shell:

```
gcloud storage cp -r gs://YOUR-BUCKET-NAME/ada.jpg .
```

If successful, the command returns:

```
Copying gs://YOUR-BUCKET-NAME/ada.jpg...
/ [1 files][360.1 KiB/2360.1 KiB]
Operation completed over 1 objects/360.1 KiB.
```

You've just downloaded the image from your bucket.

50/100

GSP074

Overview

Setup and requirements

Task 1. Create a bucket

Task 2. Upload an object into your bucket

Task 3. Download an object from your bucket

Task 4. Copy an object to a folder in the bucket

Task 5. List contents of a bucket or folder

Task 6. List details for an object

Task 7. Make your object publicly accessible

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Dashboard – qwiklabs-gcp-00-b713051620ed x +

https://console.cloud.google.com/home/dashboard?project=qwiklabs-gcp-00-b713051620ed&pli=1&cloudshell=true

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```
"links": [
  {
    "description": "Google developer console IAM admin",
    "url": "https://console.developers.google.com/iam-admin/iam/project?project=qwiklabs-gcp-00-b713051620ed"
  }
]
}
>
[core]
project = qwiklabs-gcp-00-b713051620ed

Your active configuration is: [cloudshell-32399]
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud config set compute/region us-west1
Updated property [compute/region].
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage buckets create gs://dev23_buc
Creating gs://dev23_buc...
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ curl https://upload.wikimedia.org/wikipedia/commons/thumb/a/a4/Ada_Lovelace_portrait.jpg/800px-Ada_Lovelace_portrait.jpg -oada.jpg
  % Total    % Received % Xferd  Average Speed   Time     Time      Current
                                 Dload  Upload Total Spent   Left Speed
100  361k  100  361k    0     0  5489k      0 --:--:-- --:--:-- 5473k
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp ada.jpg gs://dev23_buc
Copying file://ada.jpg to gs://dev23_buc/ada.jpg
Completed files 1/1 | 361.3kiB/361.3kiB
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ rm ada.jpg
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp -r gs://YOUR-BUCKET-NAME/ada.jpg .
Completed files 0 | 0B
ERROR: (gcloud.storage.cp) HTTPError 400: Invalid bucket name: 'YOUR-BUCKET-NAME'
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp -r gs://dev23_buc/ada.jpg .
Copying gs://dev23_buc/ada.jpg to file://./ada.jpg
Completed files 1/1 | 361.3kiB/361.3kiB
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
```

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5636 0 0 0

Dashboard Catalog Paths Collections

Contents Cloud Storage: Qwik Start - CLI/SDK

You've just downloaded the image from your bucket.

End Lab 00:35:08

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[Open Google Cloud Console](#)

Username: student-02-7516ed2a2ed9c
Password: 9ePfvejaFLwD
Project ID: quicklabs-gcp-00-b713051e

Student Resources: [Google Cloud Storage: Massive Scalability Plus More](#)

Task 4. Copy an object to a folder in the bucket

• Use the `gcloud storage cp` command to create a folder called `image-folder` and copy the image (`ada.jpg`) into it:

```
gcloud storage cp gs://YOUR-BUCKET-NAME/ada.jpg gs://YOUR-BUCKET-NAME/image-folder/
```

Note: Compared to local file systems, folders in Cloud Storage have limitations, but many of the same operations are supported.

If successful, the command returns:

```
Copying gs://YOUR-BUCKET-NAME/ada.jpg [Content-Type=image/png]...
- [1 files] [ 360.1 KiB/ 360.1 KiB]
Operation completed over 1 objects/360.1 KiB
```

50/100 Lab instructions and tasks

GSP074 Overview Setup and requirements Task 1. Create a bucket Task 2. Upload an object into your bucket Task 3. Download an object from your bucket Task 4. Copy an object to a folder in the bucket Task 5. List contents of a bucket or folder Task 6. List details for an object Task 7. Make your object publicly accessible

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https://console.cloud.google.com/home/dashboard?project=qwiklabs-gcp-00-b713051620ed&pli=1&cloudshell=true

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```
}
```

```
}
```

```
}
```

```
>
```

```
[core]
```

```
project = qwiklabs-gcp-00-b713051620ed
```

```
Your active configuration is: [cloudshell-32399]
```

```
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud config set compute/region us-west1
```

```
Updated property [compute/region].
```

```
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage buckets create gs://dev23_buc
```

```
Creating gs://dev23_buc/...
```

```
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ curl https://upload.wikimedia.org/wikipedia/commons/thumb/a/a4/Ada_Lovelace_portrait.jpg/800px-Ada_Lovelace_portrait.jpg -o ada.jpg
```

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
Dload	Upload	Total	Spent	Left	Speed		
100	361k	100	361k	0	0	5489k	0
						--:--:--	--:--:--
						5473k	

```
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp ada.jpg gs://dev23_buc
```

```
Copying file://ada.jpg to gs://dev23_buc/ada.jpg
```

```
Completed files 1/1 | 361.3kiB/361.3kiB
```

```
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ rm ada.jpg
```

```
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp -r gs://YOUR-BUCKET-NAME/ada.jpg .
```

```
Completed files 0 | 0B
```

```
ERROR: (gcloud.storage.cp) HTTPError 400: Invalid bucket name: 'YOUR-BUCKET-NAME'
```

```
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp -r gs://dev23_buc/ada.jpg .
```

```
Copying gs://dev23_buc/ada.jpg to file://./ada.jpg
```

```
Completed files 1/1 | 361.3kiB/361.3kiB
```

```
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp gs://YOUR-BUCKET-NAME/ada.jpg gs://dev23_buc/image-folder/
```

```
Completed files 0 | 0B
```

```
ERROR: (gcloud.storage.cp) HTTPError 400: Invalid bucket name: 'YOUR-BUCKET-NAME'
```

```
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp gs://dev23_buc/ada.jpg gs://dev23_buc/image-folder/
```

```
Copying gs://dev23_buc/ada.jpg to gs://dev23_buc/image-folder/ada.jpg
```

```
Completed files 1/1 | 361.3kiB/361.3kiB
```

```
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
```

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5636 0

Cloud Storage: Qwik Start - CLI/SDK

End Lab 00:33:30

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[Open Google Cloud Console](#)

Username: student-02-7516ed2a2ed9e
Password: 9ePfvejaFLwD
Project ID: quicklabs-gcp-00-b713051e

Student Resources: [Google Cloud Storage: Massive Scalability Plus More](#)

Task 5. List contents of a bucket or folder

- Use the `gcloud storage ls` command to list the contents of the bucket:

```
gcloud storage ls gs://YOUR-BUCKET-NAME
```

If successful, the command returns a message similar to:

```
gs://YOUR-BUCKET-NAME/ada.jpg  
gs://YOUR-BUCKET-NAME/image-folder/
```

That's everything currently in your bucket.

Task 6. List details for an object

- Use the `gcloud storage ls` command, with the `-l` flag to get some details about the image file you uploaded to your bucket:

50/100

Lab instructions and tasks

GSP074

Overview

Setup and requirements

Task 1. Create a bucket

Task 2. Upload an object into your bucket

Task 3. Download an object from your bucket

Task 4. Copy an object to a folder in the bucket

Task 5. List contents of a bucket or folder

Task 6. List details for an object

Task 7. Make your object publicly accessible

[Previous](#)[Next](#)

```
}
>
[core]
project = qwiklabs-gcp-00-b713051620ed

Your active configuration is: [cloudshell-32399]
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud config set compute/region us-west1
Updated property [compute/region].
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage buckets create gs://dev23_buc
Creating gs://dev23_buc/...
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ curl https://upload.wikimedia.org/wikipedia/commons/thumb/a/a4/Ada_Lovelace_portrait.jpg/800px-Ada_Lovelace_portrait.jpg -oada.jpg
  % Total    % Received % Xferd  Average Speed   Time     Time   Current
                                         Dload  Upload Total Spent   Left  Speed
100  361k  100  361k    0     0  5489k      0  --:--:-- --:--:-- 5473k
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp ada.jpg gs://dev23_buc
Copying file://ada.jpg to gs://dev23_buc/ada.jpg
  Completed files 1/1 | 361.3kiB/361.3kiB
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ rm ada.jpg
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp -r gs://YOUR-BUCKET-NAME/ada.jpg .
  Completed files 0 | 0B
ERROR: (gcloud.storage.cp) HTTPError 400: Invalid bucket name: 'YOUR-BUCKET-NAME'
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Copying gs://dev23_buc/ada.jpg to file://./ada.jpg
  Completed files 1/1 | 361.3kiB/361.3kiB
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  Completed files 0 | 0B
ERROR: (gcloud.storage.cp) HTTPError 400: Invalid bucket name: 'YOUR-BUCKET-NAME'
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp gs://dev23_buc/ada.jpg gs://dev23_buc/image-folder/
Copying gs://dev23_buc/ada.jpg to gs://dev23_buc/image-folder/ada.jpg
  Completed files 1/1 | 361.3kiB/361.3kiB
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage ls gs://dev23_buc
gs://dev23_buc/ada.jpg
gs://dev23_buc/image-folder/
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
```

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student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$ gcloud config set compute/region us-west1
Updated property [compute/region].
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$ gcloud storage buckets create gs://dev23_buc
Creating gs://dev23_buc/...
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$ curl https://upload.wikimedia.org/wikipedia/commons/thumb/a/a4/Ada_Lovelace_portrait.jpg/800px-Ada_Lovelace_portrait.jpg -o output ada.jpg
% Total % Received % Xferd Average Speed Time Time Current
Dload Upload Total Spent Left Speed
100 361k 100 361k 0 0 5489k 0 ---:--- ---:--- 5473k
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$ gcloud storage cp ada.jpg gs://dev23_buc
Copying file://ada.jpg to gs://dev23_buc/ada.jpg
Completed files 1/1 | 361.3kB/361.3kB
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$ rm ada.jpg
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$ gcloud storage cp -r gs://YOUR-BUCKET-NAME/ada.jpg .
Completed files 0 | 0B
ERROR: (gcloud.storage.cp) HTTPError 400: Invalid bucket name: 'YOUR-BUCKET-NAME'
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$ gcloud storage cp -r gs://dev23_buc/ada.jpg .
Copying gs://dev23_buc/ada.jpg to file://./ada.jpg
Completed files 1/1 | 361.3kB/361.3kB
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$ gcloud storage cp gs://YOUR-BUCKET-NAME/ada.jpg gs://dev23_buc/image-folder/
Completed files 0 | 0B
ERROR: (gcloud.storage.cp) HTTPError 400: Invalid bucket name: 'YOUR-BUCKET-NAME'
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$ gcloud storage cp gs://dev23_buc/ada.jpg gs://dev23_buc/image-folder/
Copying gs://dev23_buc/ada.jpg to gs://dev23_buc/image-folder/ada.jpg
Completed files 1/1 | 361.3kB/361.3kB
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$ gcloud storage ls gs://dev23_buc
gs://dev23_buc/ada.jpg
gs://dev23_buc/image-folder/
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$ gcloud storage ls -l gs://dev23_buc/ada.jpg
369924 2025-12-02T16:03:31Z gs://dev23_buc/ada.jpg
TOTAL: 1 objects, 369924 bytes (361.25kB)
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)\$

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Username: student-02-7516ed2a2ed9e

Password: 9ePfvejaFLwD

Project ID: quicklabs-gcp-00-b713051e

Student Resources: [Google Cloud Storage: Massive Scalability Plus More](#)

Task 7. Make your object publicly accessible

• Use the `gsutil acl ch` command to grant all users read permission for the object stored in your bucket:

```
gsutil acl ch -u AllUsers:R gs://YOUR-BUCKET-NAME/ada.jpg
```

If successful, the command returns:

```
Updated ACL on gs://YOUR-BUCKET-NAME/ada.jpg
```

Your image is now public, and can be made available to anyone.

Test completed ask

Click **Check my progress** to verify your performed task. If you have successfully shared an object from your storage bucket, you will see an assessment score.

75/100 Lab instructions and tasks

GSP074 Overview Setup and requirements Task 1. Create a bucket Task 2. Upload an object into your bucket Task 3. Download an object from your bucket Task 4. Copy an object to a folder in the bucket Task 5. List contents of a bucket or folder Task 6. List details for an object Task 7. Make your object publicly accessible

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```
Dload Upload Total Spent Left Speed
100 361k 100 361k 0 0 5489k 0 --:--:-- --:--:-- 5473k
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp ada.jpg gs://dev23_buc
Copying file://ada.jpg to gs://dev23_buc/ada.jpg
Completed files 1/1 | 361.3kiB/361.3kiB
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ rm ada.jpg
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp -r gs://YOUR-BUCKET-NAME/ada.jpg .
Completed files 0 | 0B
ERROR: (gcloud.storage.cp) HTTPError 400: Invalid bucket name: 'YOUR-BUCKET-NAME'
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp -r gs://dev23_buc/ada.jpg .
Copying gs://dev23_buc/ada.jpg to file://./ada.jpg
Completed files 1/1 | 361.3kiB/361.3kiB
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp gs://YOUR-BUCKET-NAME/ada.jpg gs://dev23_buc/image-folder/
Completed files 0 | 0B
ERROR: (gcloud.storage.cp) HTTPError 400: Invalid bucket name: 'YOUR-BUCKET-NAME'
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp gs://dev23_buc/ada.jpg gs://dev23_buc/image-folder/
Copying gs://dev23_buc/ada.jpg to gs://dev23_buc/image-folder/ada.jpg
Completed files 1/1 | 361.3kiB/361.3kiB
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage ls gs://dev23_buc
gs://dev23_buc/ada.jpg
gs://dev23_buc/image-folder/
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage ls -l gs://dev23_buc/ada.jpg
369924 2025-12-02T16:03:31Z gs://dev23_buc/ada.jpg
TOTAL: 1 objects, 369924 bytes (361.25kiB)
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gsutil acl ch -u AllUsers:R gs://dev23_buc/ada.jpg
Updated ACL on gs://dev23_buc/ada.jpg
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
```

9+ 14°C Clear Search

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5636 0 0 100/100

Dashboard Catalog Paths Collections

Contents Cloud Storage: Qwik Start - CLI/SDK

If successful, the command returns:

Updated ACL on gs://YOUR-BUCKET-NAME/ada.jpg

Your image is now public, and can be made available to anyone.

Test completed ask

Click **Check my progress** to verify your performed task. If you have successfully shared an object from your storage bucket, you will see an assessment score.

Make your object publicly accessible

Check my progress

Assessment Completed!

Validate that your image is publicly available.

- Go to **Navigation menu > Cloud Storage**, then click on the name of your bucket.

Check complete. Points earned: 25. Message: Assessment Completed!

100/100 Lab instructions and tasks

GSP074 Overview Setup and requirements Task 1. Create a bucket Task 2. Upload an object into your bucket Task 3. Download an object from your bucket Task 4. Copy an object to a folder in the bucket Task 5. List contents of a bucket or folder Task 6. List details for an object Task 7. Make your object publicly accessible

Buckets – Cloud Storage – qwikla X +

https://console.cloud.google.com/storage/browser?cloudshell=true&project=qwiklabs-gcp-00-b713051620ed&prefix=&forceOnBucketsSortingFi... | 2

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Google Cloud **qwiklabs-gcp-00-b713051620ed** Search (/) for resources, docs, products, and more Search

Cloud Storage Buckets + Create Refresh Go to path Learn

Overview Filter buckets View options

Buckets

Name	Created	Location type	Location	Default storage class	Last modified	Public access	Access control
dev23_buc	Dec 2, 2025, 9:32:24 PM	Multi-region	us	Standard	Dec 2, 2025, 9:32:24 PM	Subject to object ACLs	Fine-grain

Monitoring Settings

Storage Intelligence Insights datasets Configuration

Marketplace Release Notes

CLOUD SHELL Terminal (qwiklabs-gcp-00-b713051620ed) Open Editor

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dev23_buc - Cloud Storage - qw X

https://console.cloud.google.com/storage/browser/dev23_buc;tab=objects?forceOnBucketsSortingFiltering=true&cloudshell=true&project=qwikl... | 2

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Google Cloud qwiklabs-gcp-00-b713051620ed Search (/) for resources, docs, products, and more Search

Cloud Storage Bucket details Go to path Refresh

Overview Buckets Monitoring Settings Storage Intelligence Insights datasets Configuration Marketplace Release Notes

Bucket details for dev23_buc

Location: us (multiple regions in United States) Storage class: Standard Public access: Subject to object ACLs Protection: Soft Delete

Objects Configuration Permissions Protection Lifecycle Observability New Inventory Reports Operations

Folder browser I

Buckets > dev23_buc F

Create folder Upload Transfer data Other services Learn

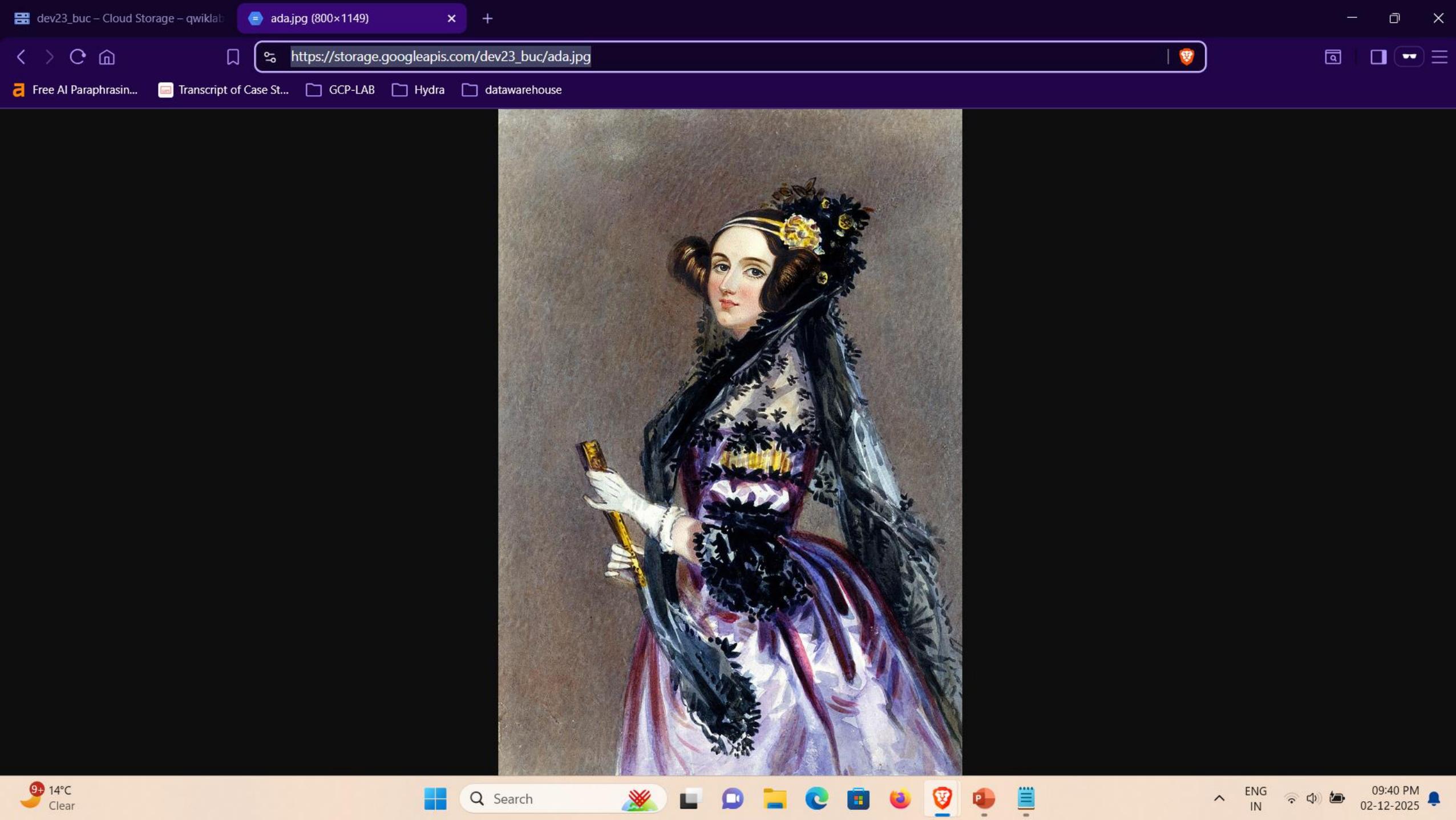
Filter by name prefix only Filter Filter objects and folders Show Live objects only ☰

<input type="checkbox"/>	Name	Size	Type	Created	Storage class	⋮
<input type="checkbox"/>	ada.jpg	369.9 KB	image/jpeg	Dec 2, 2025, 9:33:31 PM	Standard	⋮
<input type="checkbox"/>	image-folder/	—	Folder	—	—	⋮

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Search ☰

https://storage.googleapis.com/dev23_buc/ada.jpg

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What do you want to learn today?

5636 0 0 0

Cloud Storage: Qwik Start - CLI/SDK

End Lab 00:29:27

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked.
[Learn more.](#)

Open Google Cloud Console

Username: student-02-7516ed2a2ed9e

Password: 9ePfvejaFLwD

Project ID: quicklabs-gcp-00-b713051e

Student Resources: Google Cloud Storage: Massive Scalability Plus More

Contents

Task 8. Remove public access

1. To remove this permission, use the command:

```
gsutil acl ch -d AllUsers gs://YOUR-BUCKET-NAME/ada.jpg
```

If successful, the command returns:

```
Updated ACL on gs://YOUR-BUCKET-NAME/ada.jpg
```

You have removed public access to this object.

2. Verify that you've removed public access by clicking the Refresh button in the console. The checkmark will be removed.

100/100

GSP074

Overview

Setup and requirements

Task 1. Create a bucket

Task 2. Upload an object into your bucket

Task 3. Download an object from your bucket

Task 4. Copy an object to a folder in the bucket

Task 5. List contents of a bucket or folder

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dev23_buc - Buckets - Cloud Sto X +

https://console.cloud.google.com/storage/browser?forceOnBucketsSortingFiltering=true&cloudshell=true&project=qwiklabs-gcp-00-b71305162... | 2

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Cloud Storage Buckets + Create Refresh Go to path Learn

Marketplace Filter buckets View options

Terminal (qwiklabs-gcp-00-b713051620ed) Open Editor

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

Don't show again Dismiss

```
ERROR: (gcloud.storage.cp) HTTPError 400: Invalid bucket name: 'YOUR-BUCKET-NAME'  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage cp gs://dev23_buc/ada.jpg gs://dev23_buc/image-folder/  
Copying gs://dev23_buc/ada.jpg to gs://dev23_buc/image-folder/ada.jpg  
  Completed files 1/1 | 361.3kiB/361.3kiB  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage ls gs://dev23_buc  
gs://dev23_buc/ada.jpg  
gs://dev23_buc/image-folder/  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gcloud storage ls -l gs://dev23_buc/ada.jpg  
  369924 2025-12-02T16:03:31Z gs://dev23_buc/ada.jpg  
TOTAL: 1 objects, 369924 bytes (361.25kiB)  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gsutil acl ch -u AllUsers:R gs://dev23_buc/ada.jpg  
Updated ACL on gs://dev23_buc/ada.jpg  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gsutil acl ch -u AllUsers:R gs://dev23_buc/ada.jpg  
No changes to gs://dev23_buc/ada.jpg  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$ gsutil acl ch -d AllUsers gs://dev23_buc/ada.jpg  
Updated ACL on gs://dev23_buc/ada.jpg  
student_02_7516ed2a2ed9@cloudshell:~ (qwiklabs-gcp-00-b713051620ed)$
```

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Cloud Storage: Qwik Start - CLI/SDK

End Lab 00:28:21

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Learn more.

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Password: 9ePfvejaFLwD

Project ID: quicklabs-gcp-00-b713051e

Student Resources: Google Cloud Storage: Massive Scalability Plus More

Delete objects

1. Use the `gcloud storage rm` command to delete an object - the image file in your bucket:

```
gcloud storage rm gs://YOUR-BUCKET-NAME/ada.jpg
```

If successful, the command returns:

```
Removing gs://YOUR-BUCKET-NAME/ada.jpg...
```

2. Refresh the console. The copy of the image file is no longer stored on Cloud Storage (though the copy you made in the `image-folder/` folder still exists).

Congratulations!

You created a storage bucket, organized it by creating folders and subfolders, then

100/100

Lab instructions and tasks

GSP074

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