

# GOOGLE CLOUD PLATFORM

## ASSIGNMENT

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### Assignment Question:

1. Create a bucket
2. Copy files from one bucket to another bucket
3. Move files from one bucket to another bucket
4. Delete the files

### Console:

#### 1. Creating a bucket

The screenshot shows the Google Cloud Platform console interface for creating a new bucket. The browser address bar shows the URL: `console.cloud.google.com/storage/create-bucket?inv=18&inv=AbxzlW8&project=data-buckeye-439017-v9`. The left sidebar contains navigation links for Cloud Storage, Overview, Buckets, Monitoring, Settings, Storage Intelligence, Insights datasets, Configuration, Marketplace, and Release Notes. The main content area is titled 'Create a bucket' and includes a 'Get Started' section with a text input field containing 'gcptraining12'. Below this is a 'Labels (optional)' section with a 'Continue' button. To the right, the 'Good to know' section provides information on location pricing and current configuration (Multi-region / Standard). A table shows the cost for storage in the US (multiple regions in United States) at \$0.026 per GB-month, and the cost for default replication at \$0.020 per GB written. A link to 'Estimate your monthly cost' is also present.

**Get Started**

Pick a globally unique, permanent name. [Naming guidelines](#)

Tip: Don't include any sensitive information

Labels (optional)

[Continue](#)

**Good to know**

**Location pricing**  
Storage rates vary depending on the storage class of your data and location of your bucket. [Pricing details](#)

Current configuration: Multi-region / Standard

Item	Cost
us (multiple regions in United States)	\$0.026 per GB-month
With default replication	\$0.020 per GB written

[Estimate your monthly cost](#)

**Choose where to store your data**  
Location: us (multiple regions in United States)  
Location type: Multi-region

**Choose how to store your data**  
A storage class sets costs for storage, retrieval, and operations, with minimal differences in uptime. Choose if you want objects to be accessed automatically as specified for each storage class.

Google Cloud console showing the "Create a bucket" wizard for project "My First Project". The bucket name is "buck". The wizard steps are:

- Get Started**: Name: gcptraining12
- Choose where to store your data**: Location: us (multiple regions in United States), Location type: Multi-region
- Choose how to store your data**: Default storage class: Standard, Hierarchical namespace: Disabled
- Choose how to control access to objects**: Public access prevention: On, Access control: Uniform
- Choose how to protect object data**: Soft delete policy: Default, Object versioning: Disabled

**Good to know**

- Location pricing**: Storage rates vary depending on the storage class of your data and location of your bucket. [Pricing details](#)
- Current configuration**: Multi-region / Standard

Item	Cost
us (multiple regions in United States)	\$0.026 per GB-month
With default replication	\$0.020 per GB written

[Estimate your monthly cost](#)

Google Cloud console showing the "Create a bucket" wizard for project "My First Project". The bucket name is "buck". The wizard steps are:

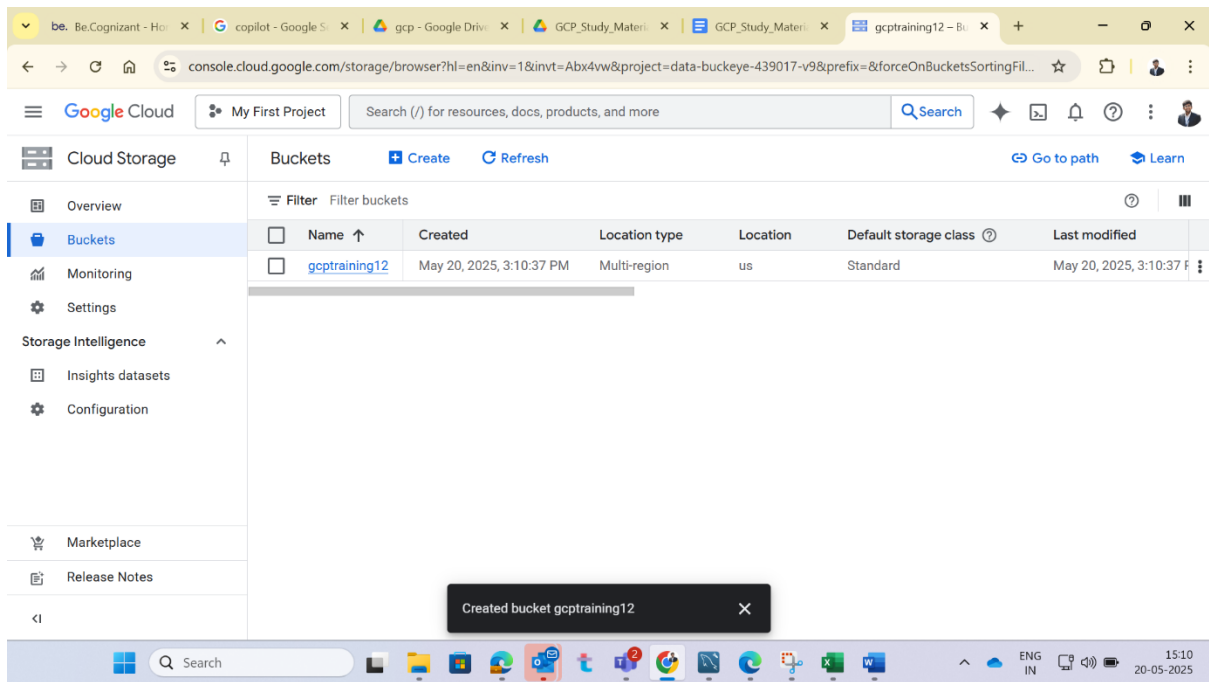
- Get Started**: Name: gcptraining12
- Choose where to store your data**: Location: us (multiple regions in United States), Location type: Multi-region
- Choose how to store your data**: Default storage class: Standard, Hierarchical namespace: Disabled
- Choose how to control access to objects**: Public access prevention: On, Access control: Uniform
- Choose how to protect object data**: Soft delete policy: Default, Object versioning: Disabled

**Public access will be prevented**

This bucket is set to prevent exposure of its data on the public internet. Keep this setting enabled unless you have a use case that requires public access (such as static website hosting). You can change it now or later. [Learn more](#)

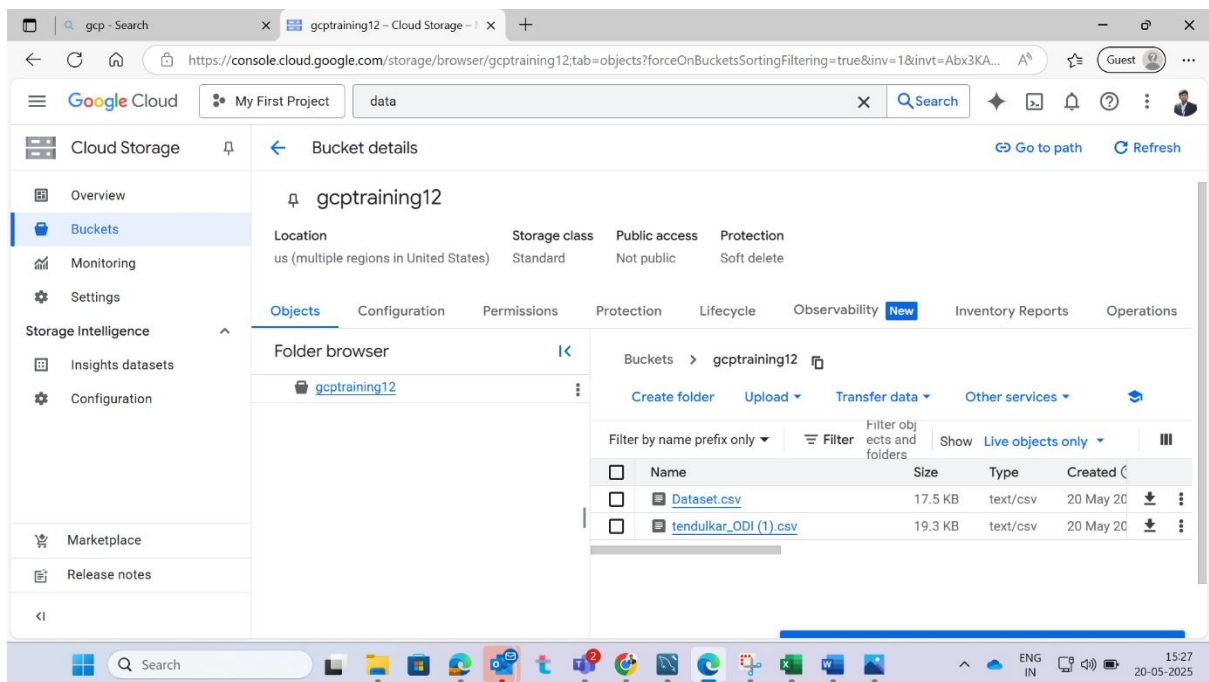
☒ Enforce public access prevention on this bucket  
☐ Don't show this message again

Cancel Confirm



## 2. Copy files from one bucket to other bucket

### Files in the one bucket



## Creating another bucket

The screenshot shows the Google Cloud Console interface. The left sidebar contains navigation options: Overview, Buckets (selected), Monitoring, Settings, Storage Intelligence, Insights datasets, and Configuration. The main content area is titled 'Bucket details' for the bucket 'gcptraining12345'. It displays metadata: Location (us), Storage class (Standard), Public access (Not public), and Protection (Soft delete). Below this, there are tabs for Objects, Configuration, Permissions, Protection, Lifecycle, Observability, Inventory Reports, and Operations. The 'Objects' tab is active, showing a 'Folder browser' with a sub-entry for 'gcptraining12345'. A notification banner at the bottom of the console area states 'Created bucket gcptraining12345'. The Windows taskbar at the bottom shows the time as 15:29 on 20-05-2025.

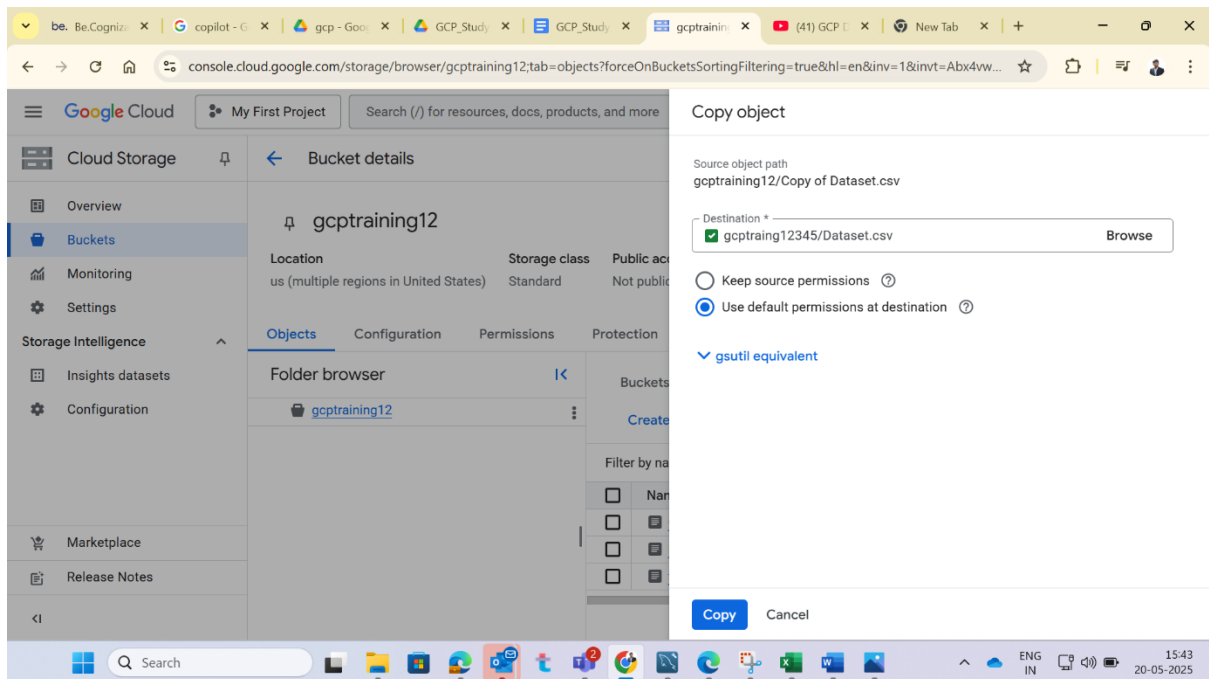
## Now, The files from gcptraining12 to gcptraining12345

The screenshot shows the Google Cloud Console 'Buckets' page. The left sidebar is the same as in the previous image. The main content area shows a table of buckets. The table has columns: Name, Created, Location type, Location, Default storage class, and Last modified. Two buckets are listed: 'gcptraining12345' and 'gcptraining12'. Both were created on May 20, 2025, at 15:29:04 and 15:10:37 respectively, and are located in the 'us' region with a 'Standard' storage class.

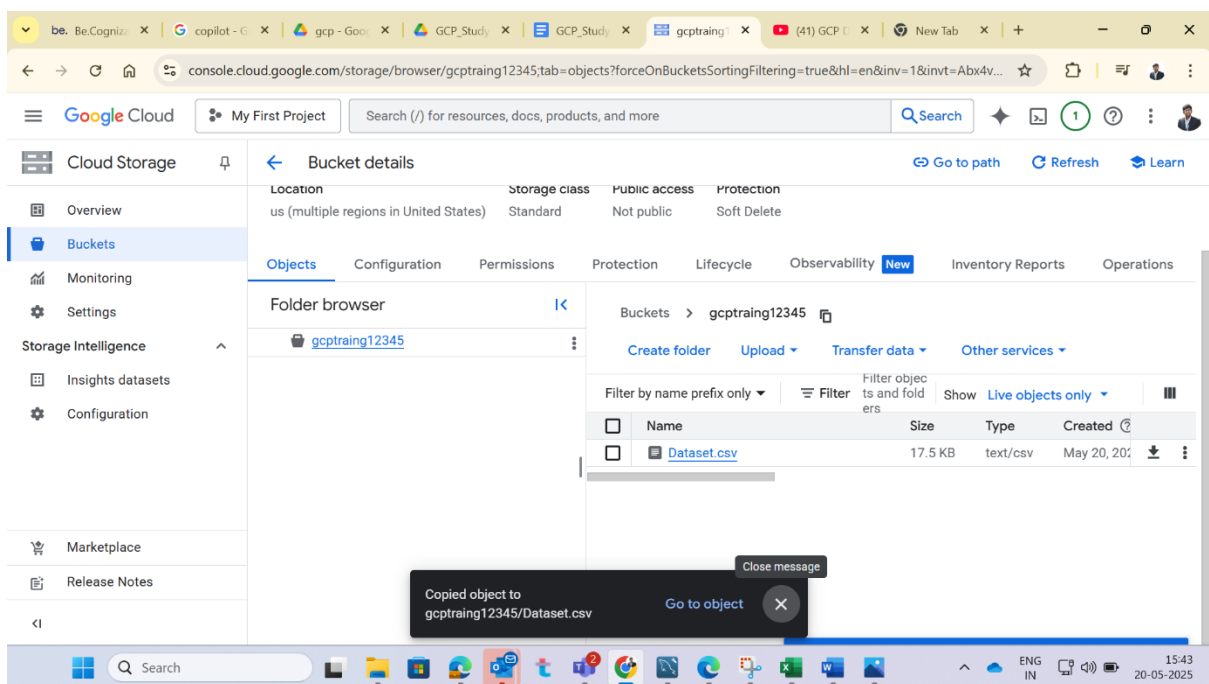
Name	Created	Location type	Location	Default storage class	Last modified
gcptraining12345	20 May 2025, 15:29:04	Multi-region	us	Standard	20 May 2025, 15:29:04
gcptraining12	20 May 2025, 15:10:37	Multi-region	us	Standard	20 May 2025, 15:10:37

The Windows taskbar at the bottom shows the time as 15:29 on 20-05-2025.

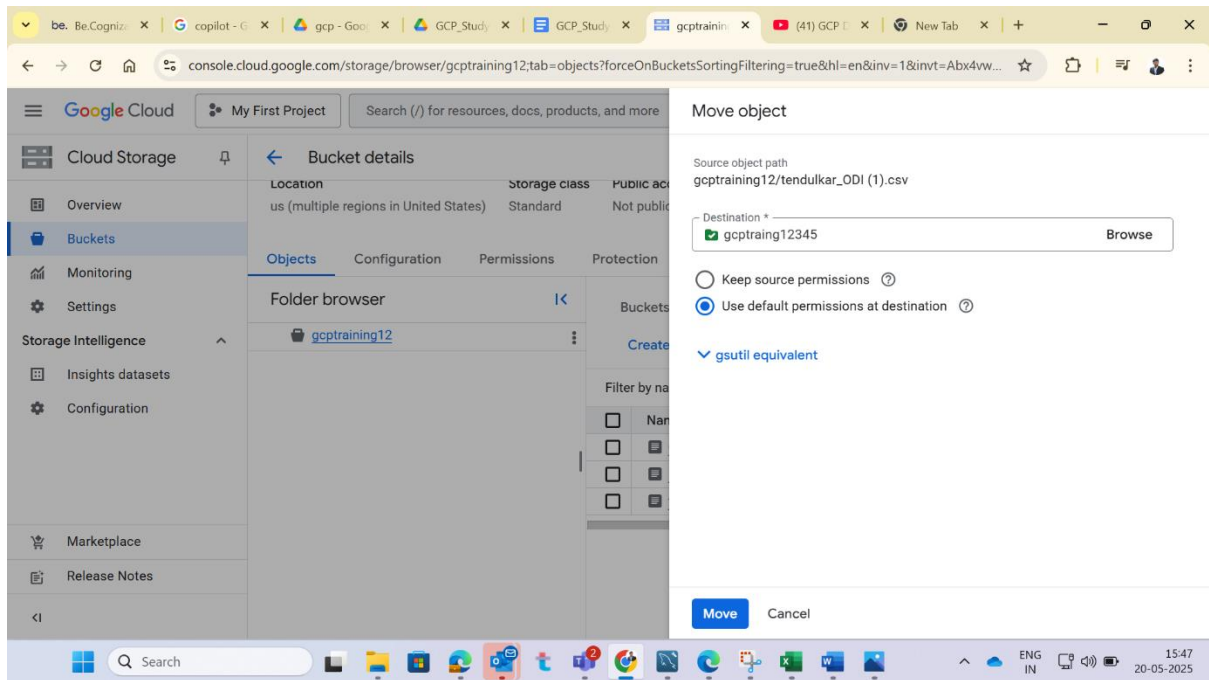
## For copying selecting destination of the destination bucket



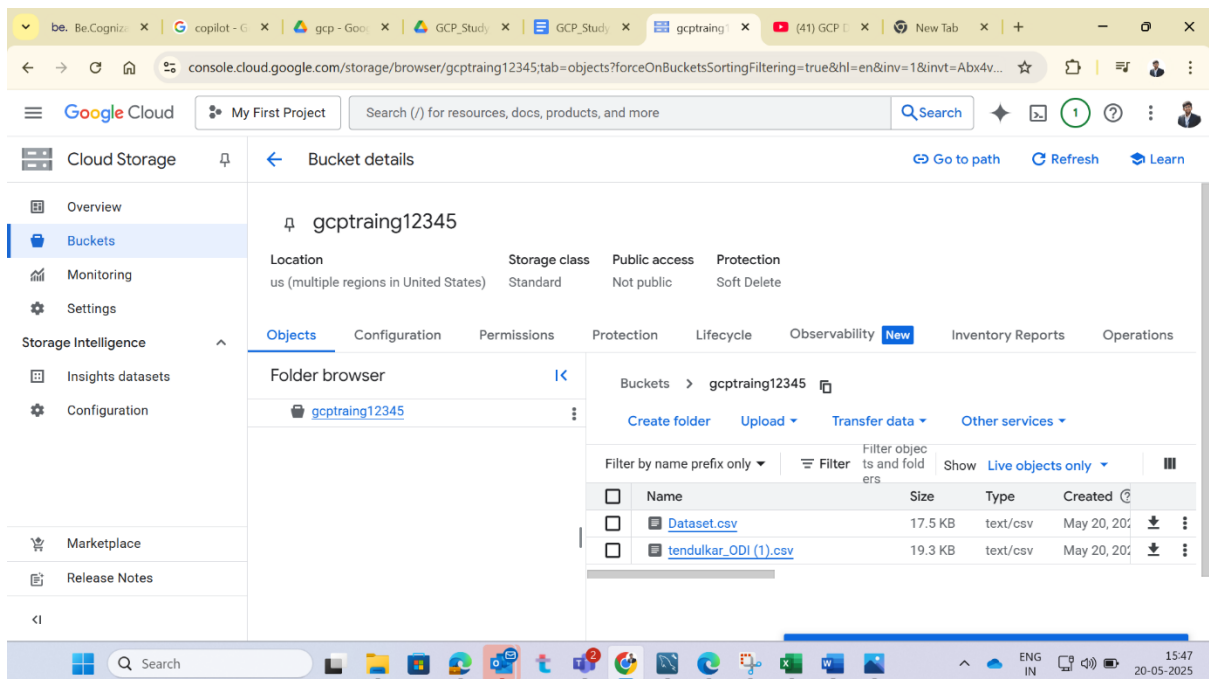
## File copied from one bucket to another bucket



### 3. Moving files from one bucket to another bucket

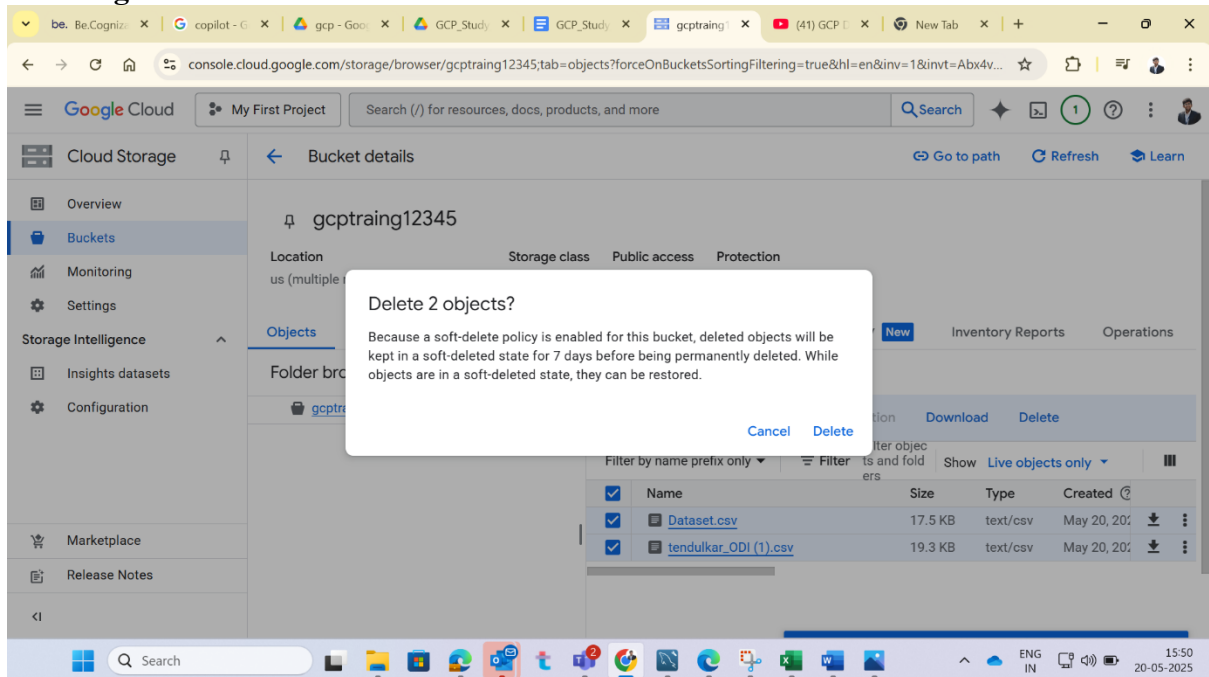


### Successfully moved one file from one bucket to another bucket

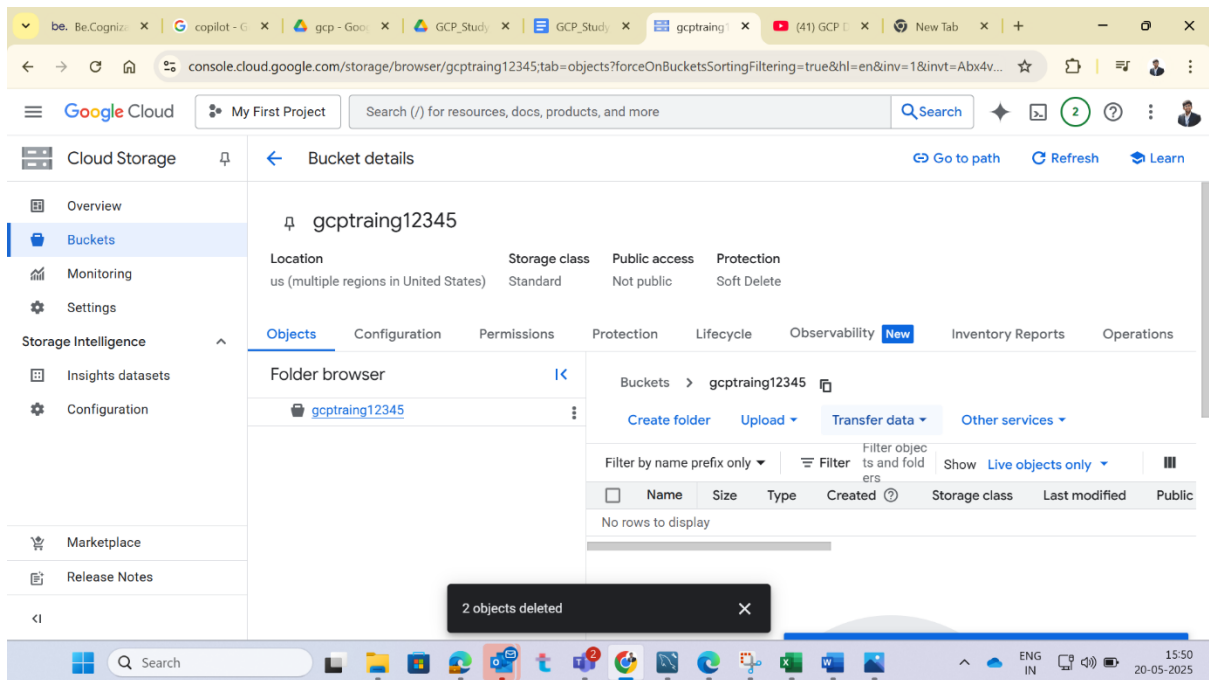


## 4. Delete the files

### Selecting files to delete files



### Successfully deleted the files from the bucket



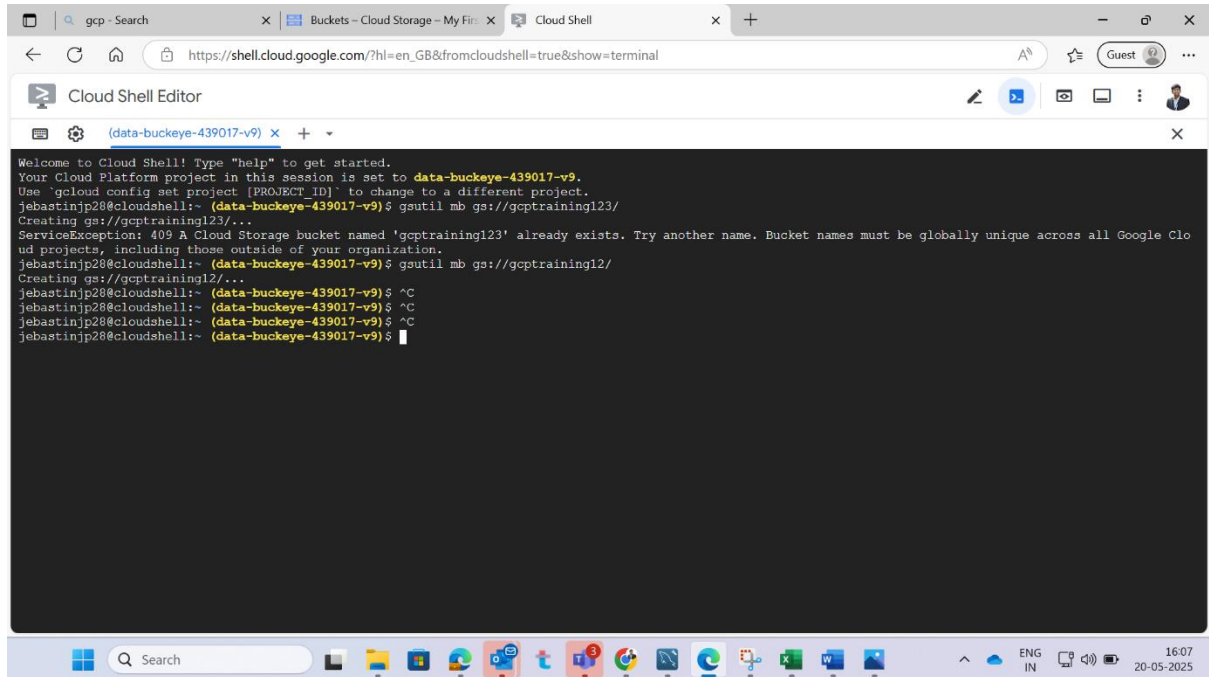


## Shell:

### 1. Creating a bucket:

#### Commands:

gsutil mb gs://gcptraining12/



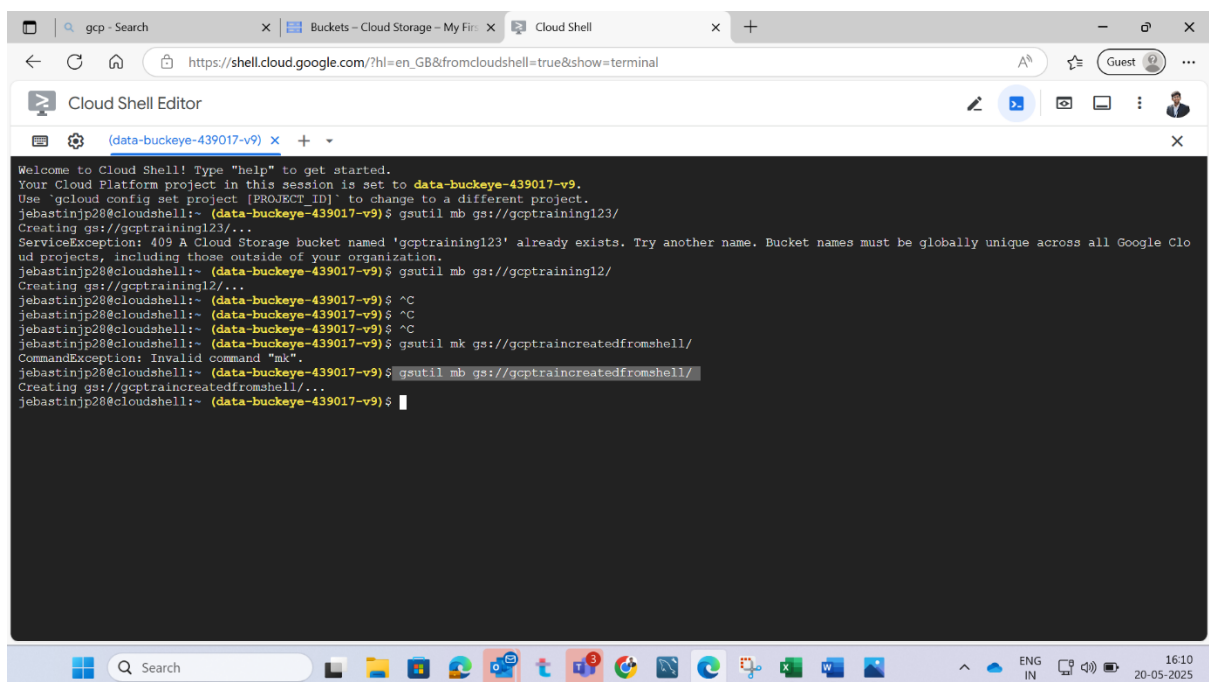
The screenshot shows a web browser window with the Cloud Shell Editor. The terminal output is as follows:

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to data-buckeye-439017-v9.
Use 'gcloud config set project [PROJECT_ID]' to change to a different project.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mb gs://gcptraining12/
Creating gs://gcptraining12/...
ServiceException: 409 A Cloud Storage bucket named 'gcptraining123' already exists. Try another name. Bucket names must be globally unique across all Google Cloud projects, including those outside of your organization.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mb gs://gcptraining12/
Creating gs://gcptraining12/...
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ ^C
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ ^C
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ ^C
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $
```

### Creating another bucket

#### Commands:

gsutil mb gs://gcptraincreatedfromshell/



The screenshot shows a web browser window with the Cloud Shell Editor. The terminal output is as follows:

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to data-buckeye-439017-v9.
Use 'gcloud config set project [PROJECT_ID]' to change to a different project.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mb gs://gcptraining123/
Creating gs://gcptraining123/...
ServiceException: 409 A Cloud Storage bucket named 'gcptraining123' already exists. Try another name. Bucket names must be globally unique across all Google Cloud projects, including those outside of your organization.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mb gs://gcptraining12/
Creating gs://gcptraining12/...
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ ^C
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ ^C
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ ^C
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mk gs://gcptraincreatedfromshell/
CommandException: Invalid command "mk".
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mb gs://gcptraincreatedfromshell/
Creating gs://gcptraincreatedfromshell/...
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $
```



## Uploading files to the bucket from local storage

The first screenshot shows a Cloud Shell terminal window with a terminal window open. The terminal displays the following commands and output:

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to data-buckeye-439017-v9.
Use 'gcloud config set project [PROJECT_ID]' to change to a different project.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mb gs://gcptraining123/...
Creating gs://gcptraining123/...
ServiceException: 409 A Cloud Storage bucket named 'gcptraining123' already exists. Try another name. Bucket names must be globally unique across all Google Cloud projects, including those outside of your organization.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mb gs://gcptraining12/...
Creating gs://gcptraining12/...
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ ^C
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ ^C
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ ^C
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mk gs://gcptrainingcreatedfromshell/
CommandException: Invalid command "mk".
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mb gs://gcptrainingcreatedfromshell/
Creating gs://gcptrainingcreatedfromshell/...
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil cp ~/Dataset.csv gs://gcptraining12/
Copying file:///home/jebastinjp28/Dataset.csv [Content-Type=text/csv]...
/ [1 files] [ 17.1 KiB/ 17.1 KiB]
Operation completed over 1 objects/17.1 KiB.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $
```

An "Upload" dialog box is overlaid on the terminal. It contains the following information:

- Upload**
- UPLOAD FILES OR FOLDERS FROM YOUR COMPUTER**
- ☒ File ☐ Folder
- Choose Files** (button)
- Dataset.csv** (file name)
- SELECT A DESTINATION DIRECTORY**
- Destination directory**:
- Files can only be uploaded within the home directory. If the specified**
- Cancel** **Upload** (buttons)

The second screenshot shows the same Cloud Shell terminal window after the upload. The terminal output is as follows:

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to data-buckeye-439017-v9.
Use 'gcloud config set project [PROJECT_ID]' to change to a different project.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mb gs://gcptraining123/...
Creating gs://gcptraining123/...
ServiceException: 409 A Cloud Storage bucket named 'gcptraining123' already exists. Try another name. Bucket names must be globally unique across all Google Cloud projects, including those outside of your organization.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mb gs://gcptraining12/...
Creating gs://gcptraining12/...
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ ^C
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ ^C
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ ^C
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mk gs://gcptrainingcreatedfromshell/
CommandException: Invalid command "mk".
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil mb gs://gcptrainingcreatedfromshell/
Creating gs://gcptrainingcreatedfromshell/...
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil cp ~/Dataset.csv gs://gcptraining12/
Copying file:///home/jebastinjp28/Dataset.csv [Content-Type=text/csv]...
/ [1 files] [ 17.1 KiB/ 17.1 KiB]
Operation completed over 1 objects/17.1 KiB.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $
```

A notification bar at the bottom of the terminal window indicates: "Transferred 1 item". Below this, a table shows the upload details:

File Name	Destination Directory	Status
Dataset.csv	/home/jebastinjp28/	✓

### 3. Copying all files from one bucket to another bucket

#### Commands:

```
gsutil -m cp -r gs://gcptraining12/* gs://gcptrainingcreatedfromshell/
```

Google Cloud Storage console showing two buckets:

Name	Created	Location type	Location	Default storage class	Last modified
gcptraincreatedfromshell	20 May 2025, 16:09:14	Multi-region	us	Standard	20 May 2025, 16:09:14
gcptraining12	20 May 2025, 16:05:33	Multi-region	us	Standard	20 May 2025, 16:05:33

Terminal output:

```
-bash: syntax error near unexpected token `('
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ clr
-bash: clr: command not found
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil -m cp -r gs://gcptraining12/* gs://gcptraining123/
Copying gs://gcptraining12/Dataset.csv [Content-Type=text/csv]...
AccessDeniedException: 403 The billing account for the owning project is disabled in state closed
CommandException: 1 file/object could not be transferred.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil -m cp -r gs://gcptraining12/* gs://gcptraincreatedfromshell/
Copying gs://gcptraining12/Dataset.csv [Content-Type=text/csv]...
/ [1/1 files] [ 17.1 KiB/ 17.1 KiB] 100% Done
Operation completed over 1 objects/17.1 KiB.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $
```

## 4. Moving all files from one bucket to another bucket

### Commands:

`gsutil -m mv -r gs://gcptraincreatedfromshell/* gs://gcptraining12/`

Google Cloud Storage console showing the same two buckets. The terminal output shows the successful execution of the move command:

```
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil -m mv -r gs://gcptraincreatedfromshell/* gs://gcptraining12/
Copying gs://gcptraincreatedfromshell/Dataset.csv [Content-Type=text/csv]...
AccessDeniedException: 403 The billing account for the owning project is disabled in state closed
CommandException: 1 file/object could not be transferred.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $ gsutil -m mv -r gs://gcptraincreatedfromshell/* gs://gcptraining12/
Copying gs://gcptraincreatedfromshell/Dataset.csv [Content-Type=text/csv]...
/ [1/1 files] [ 17.1 KiB/ 17.1 KiB] 100% Done
Operation completed over 1 objects/17.1 KiB.
jebastinjp28@cloudshell:~ (data-buckeye-439017-v9) $
```

## 5. Delete the files

### Commands:

```
gsutil -m rm gs://gcptraining12/*
```

The screenshot shows the Google Cloud Console interface. The 'Buckets' tab is selected, and the bucket 'gcptraining12' is highlighted. The 'Cloud Shell' terminal is open, showing the execution of the command `gsutil -m mv gs://gcptraining12/* gs://gcptraining12/` to move files to a new location. The terminal output shows the successful completion of the operation. The bucket details panel shows 'No rows to display' for the objects list.

## Deleting the bucket:

### Commands:

```
gsutil -m rm -r gs://gcptraining12
```

The screenshot shows the Google Cloud Console interface. The 'Buckets' tab is selected, and the bucket 'gcptraining12' is highlighted. The 'Cloud Shell' terminal is open, showing the execution of the command `gsutil -m rm -r gs://gcptraining12` to delete the bucket. The terminal output shows the successful completion of the operation. A notification banner at the bottom of the terminal says 'Deleted 1 bucket'.