

5. Perform all basic kind of operations of objects (copy | move | upload | download | delete) using gsutil sdk and python client library

GSUTIL :-

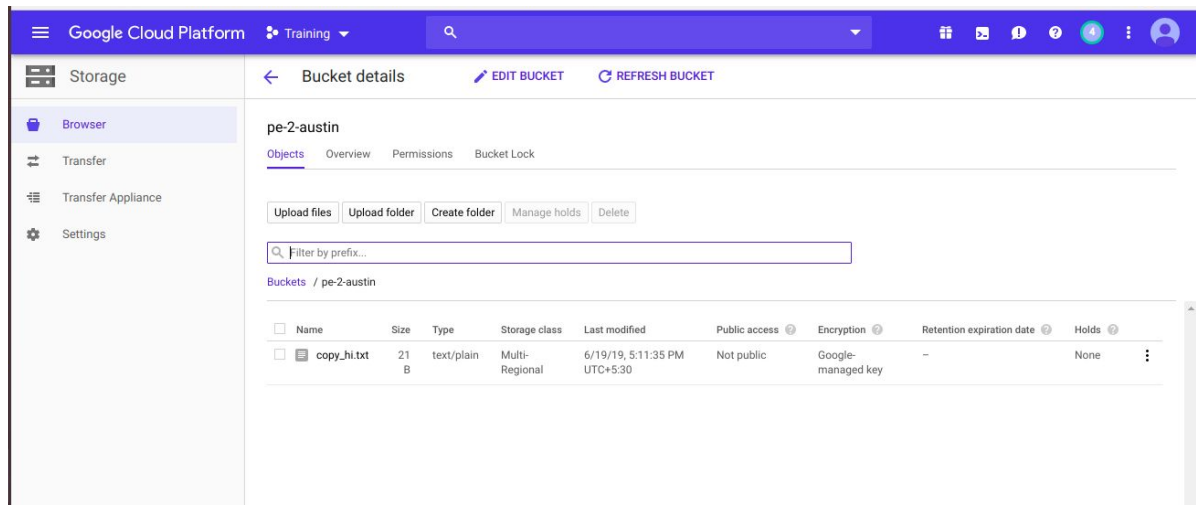
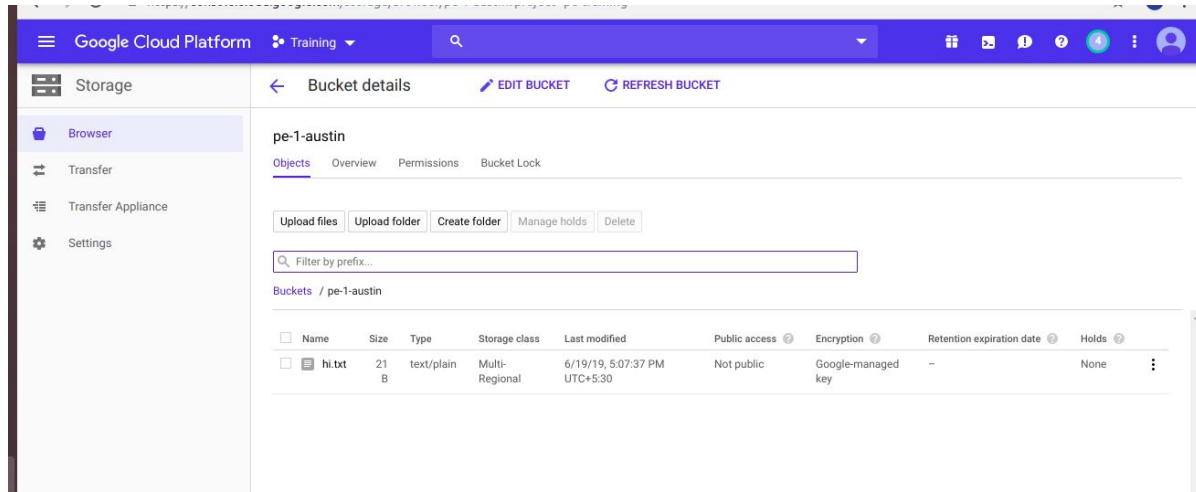
For Copying

```
austin@Quantiphi-745:~$ gsutil cp gs://pe-1-austin/hi.txt gs://pe-2-austin/copy_hi.txt
```

Copying gs://pe-1-austin/hi.txt [Content-Type=text/plain]...

- [1 files][21.0 B/ 21.0 B]

Operation completed over 1 objects/21.0 B.



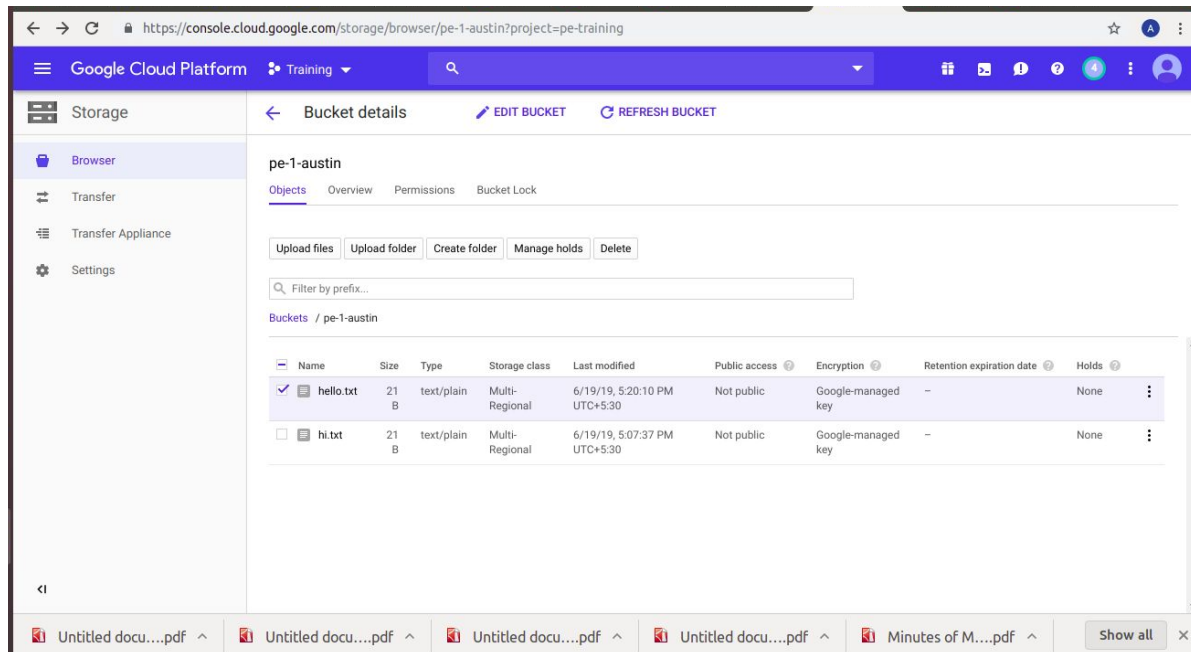
Move an Object :-

```
austin@Quantiphi-745:~$ gsutil mv gs://pe-2-austin/copy_hi.txt gs://pe-1-austin/hello.txt
```

Copying gs://pe-2-austin/copy_hi.txt [Content-Type=text/plain]...

Removing gs://pe-2-austin/copy_hi.txt...

Operation completed over 1 objects/21.0 B.



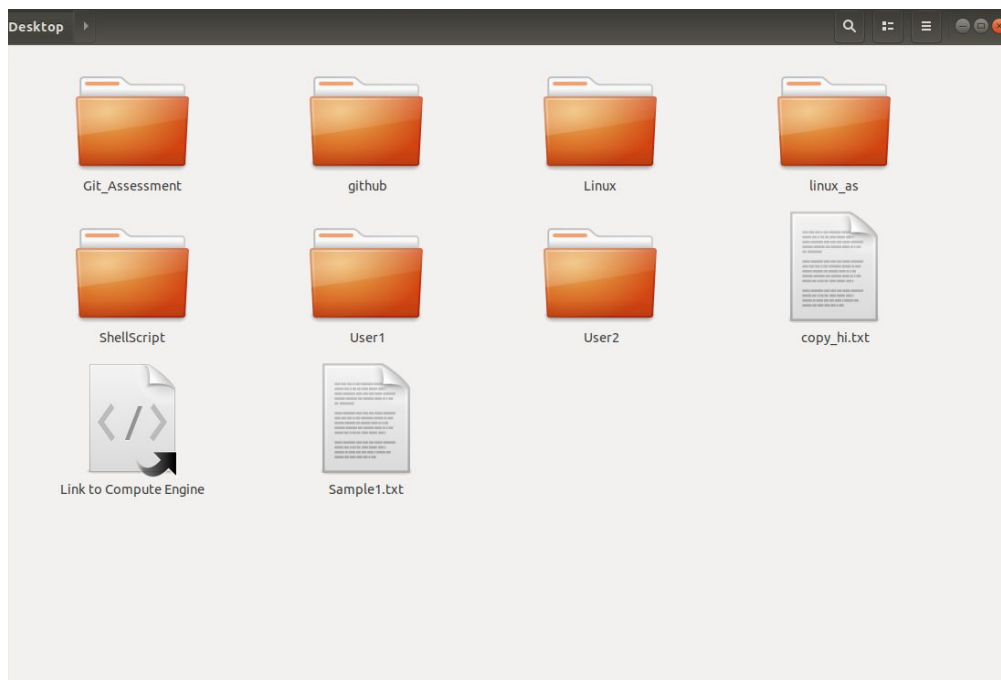
Download an Object :-

```
austin@Quantiphi-745:~$ gsutil cp gs://pe-2-austin/copy_hi.txt Desktop
```

Copying gs://pe-2-austin/copy_hi.txt...

- [1 files][21.0 B/ 21.0 B]

Operation completed over 1 objects/21.0 B.



Upload an Object :-

```
austin@Quantiphi-745:~$ gsutil cp Desktop/Sample1.txt gs://pe-2-austin/
```

Copying file://Desktop/Sample1.txt [Content-Type=text/plain]...

- [1 files][220.0 B/ 220.0 B]

Operation completed over 1 objects/220.0 B.

The screenshot shows the Google Cloud Platform Storage interface. On the left is a sidebar with navigation options: Storage, Browser, Transfer, Transfer Appliance, and Settings. The main area displays the 'Bucket details' for 'pe-2-austin'. At the top, there are tabs for 'Objects', 'Overview', 'Permissions', and 'Bucket Lock', with 'Objects' selected. Below the tabs are buttons for 'Upload files', 'Upload folder', 'Create folder', 'Manage holds', and 'Delete'. A search bar labeled 'Filter by prefix...' is present. Below the search bar, a table lists the objects in the bucket:

Name	Size	Type	Storage class	Last modified	Public access	Encryption	Retention expiration date	Holds
<input checked="" type="checkbox"/> Sample1.txt	220 B	text/plain	Multi-Regional	6/19/19, 5:36:03 PM UTC+5:30	Not public	Google-managed key	-	None
<input type="checkbox"/> copy_hi.txt	21 B	text/plain	Multi-Regional	6/19/19, 5:31:43 PM UTC+5:30	Not public	Google-managed key	-	None

At the bottom of the interface, a message states: 'Now viewing organization "quantiphi.com"'. The top navigation bar includes the Google Cloud Platform logo, a 'Training' dropdown, a search bar, and user profile icons.

Delete an Object :-

austin@Quantiphi-745:~\$ gsutil rm gs://pe-1-austin/hello.txt

Removing gs://pe-1-austin/hello.txt...

/ [1 objects]

Operation completed over 1 objects.

The screenshot shows the Google Cloud Platform Storage interface for the bucket 'pe-1-austin'. The layout is similar to the previous screenshot, with the 'Objects' tab selected. The table of objects is as follows:

Name	Size	Type	Storage class	Last modified	Public access	Encryption	Retention expiration date	Holds
<input type="checkbox"/> hi.txt	21 B	text/plain	Multi-Regional	6/19/19, 5:07:37 PM UTC+5:30	Not public	Google-managed key	-	None

The top navigation bar and sidebar are consistent with the previous screenshot. The URL in the browser address bar is 'https://console.cloud.google.com/storage/browser/pe-1-austin?project=pe-training'.