

Problem Statement

Utilize Google Cloud Command Line Interface Using GSUTIL

Symptoms

Requirements are to manipulate buckets and the files within. You will need to:

- Create a bucket and delete an existing bucket on the Google Cloud Server.
- Upload new objects, download existing objects, and delete existing objects.
- Move, copy and rename files.
- Edit objects and their Access Control Lists (ACLs).
- List of all the current buckets and objects within the buckets after these changes.

Findings

This can all be done using the Command Line Interface within the Google Cloud Environment using the GSUTIL tool.

Gsutil is a python application that lets you access Google Cloud Storage from within the command line. Gsutil performs these actions using HTTPs and transport-layer security (TLS).

Resolution

1. Create 2 GCS buckets and within the two example buckets create some sample .txt files.
2. From within the Google Cloud Command Line Interface (CLI), create a third example standard storage bucket using gsutil.
 - a. Now use gsutil to delete one of the other example buckets that were created in step 1.
3. From within the CLI, create an example .txt file in your Unix directory.
 - a. Then use Gsutil to copy the newly created .txt file to the bucket you created in step 2.
 - b. Also use gsutil to download a different .txt file in one of your buckets.
 - c. Finally, once you have downloaded the .txt file use gsutil to remove that .txt file from the bucket.
4. From within the CLI, use Gsutil to move the .txt file from the bucket you created in step 2 to a different bucket.
 - a. After this, rename that object to moved.txt.
5. From within the CLI, use gsutil to get the current ACL of the file you just edited.
 - a. Then, use gsutil to set the ACL on that object to "public".

6. Finally, after all other steps are complete, use gsutil to list all current buckets and the objects within them.
 - a. Make sure to also list the sizes of all the objects.
 - b. Also print the detailed listing of one bucket and one object.

Learnings

After performing these steps above, you now know how to manipulate Google Storage Objects within buckets using the command line interface and gsutil tool.