

Challenge Lab 1: GCP Storage – gcloud Commands

Objective: Test your understanding of basic Google Cloud Storage commands using `gcloud`. Complete each task by writing the correct `gcloud` CLI command.

Instructions

1. For each of the tasks below, write the appropriate `gcloud` command
2. If the command produces output in the terminal, include it in the `terminal_output` field.
3. If the command has **no terminal output**, set `"terminal_output"` to `null`.
4. Save all your answers as an **array of JSON objects**, each having:
 - `"task"`: a brief description of the task as given below
 - `"command"`: your `gcloud` command
 - `"terminal_output"`: actual output or `null`
5. Place the JSON file inside a `.zip` file and upload it as your final submission.
6. Name the submission zip as `<student_ID>_storage_commands.zip`

Tasks

1. Create a storage bucket in the `asia` region
2. List all storage buckets
3. Upload a file to a bucket
4. Download a file from a bucket
5. Move a file from one bucket to another
6. Delete a file from a bucket
7. Delete an empty bucket
8. Delete a non-empty bucket

Sample Code for reference

```
[
  {
    "task": "Create a storage bucket in the asia region",
    "command": "gcloud storage buckets create gs://my-bucket-asia
--location=asia",
    "terminal_output": "Created bucket [my-bucket-asia].",
  },
  {
    "task": "List all storage buckets",
    "command": "<Your command here>",
    "terminal_output": "<your terminal output here>" OR "null"
  },
]
```

Submission Form Link: <https://forms.gle/L9qzBWj2Tu5Yrn7z8>

Deadline: May 10th 2025
