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CloudSql & GCS Assessment

1. Host a static website using GCS bucket.

- 1. Create a bucket in GCS
- 2. Upload a html file (staticwebsite.html)
- 3. In the file options, click on Edit Permissions
- 4. Click on Add Item
- 5. Enter the following in the respective columns

Entity-User

Name-allUsers

Access- Reader

- 6. Click on Save
- 7. Public Access is assigned to the file
- 8. Click on the IP generated





2. Create a folder structure in the bucket as follows (manually):
-folder1
- file1.txt
-folder2
-file2.txt

Download the entire folder (folder1) on the local (cloud shell or vm) using python3 with standard library.

Code:

```
from google.cloud import storage
import os
BUCKET_NAME = 'sumegh2'
DOWNLOAD FOLDER = 'folder1'
DESTINATION FOLDER = 'final/'
    os.mkdir(DESTINATION FOLDER)
except Exception as e:
    print('Folder already exists.')
def main():
    client = storage.Client()
    bucket = client.get_bucket(BUCKET_NAME)
    blobs = bucket.list_blobs()
    for b in blobs:
        fold = DESTINATION FOLDER + ''
        if b.name.startswith(DOWNLOAD FOLDER) and b.name[-1] != '/':
            folder_struct = b.name.split('/')
            for folder in folder_struct[:-1]:
                fold += folder + '/'
                try:
                    os.mkdir(fold)
                except Exception as e:
                    pass
            b.download_to_filename(fold + folder_struct[-1])
    print('Replicated')
if __name__ == '__main__':
   main()
```

```
sumegh_anglekar@cloudshell:~ (pe-training) $ ls
dl download hello.py newdir README-cloudshell.txt test_ testdir test.py
sumegh_anglekar@cloudshell:~ (pe-training) $ python3 test.py
Replicated
sumegh_anglekar@cloudshell:~ (pe-training) $ ls
dl download final hello.py newdir README-cloudshell.txt test_ testdir test.py
sumegh_anglekar@cloudshell:~ (pe-training) $ cd final/
sumegh_anglekar@cloudshell:~/final (pe-training) $ ls
folder1
sumegh_anglekar@cloudshell:~/final (pe-training) $ cd folder1/
sumegh_anglekar@cloudshell:~/final/folder1 (pe-training) $ ls
file1.txt folder2
sumegh_anglekar@cloudshell:~/final/folder1 (pe-training) $ cd folder2/
sumegh_anglekar@cloudshell:~/final/folder1/folder2 (pe-training) $ ls
file2.txt
sumegh_anglekar@cloudshell:~/final/folder1/folder2 (pe-training) $ [
```