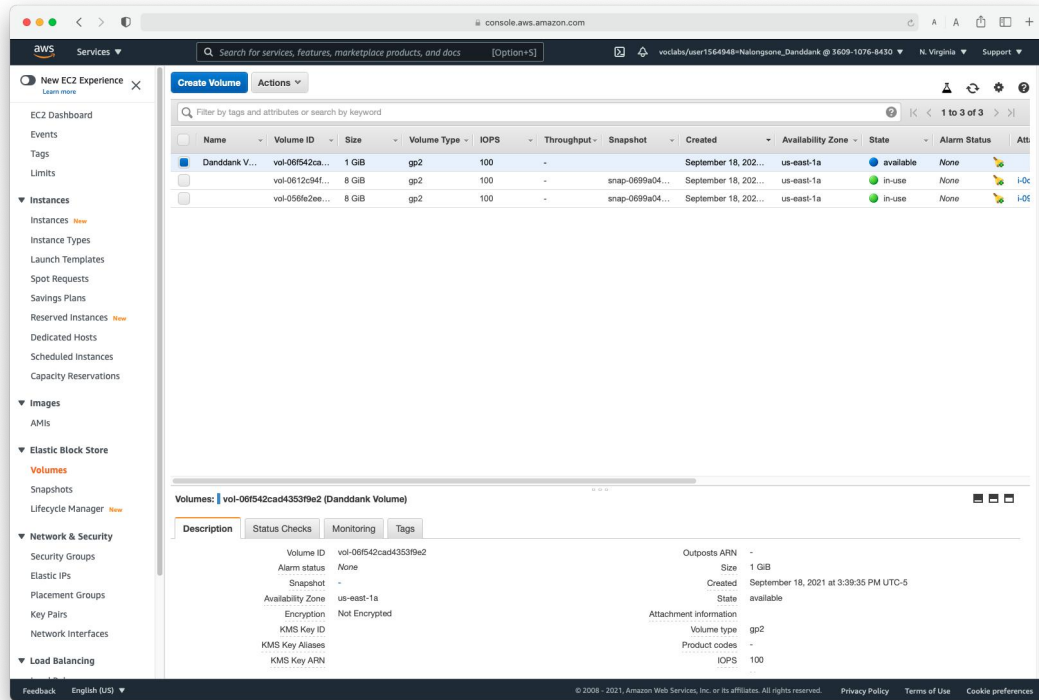


## Lab #3 : Storage

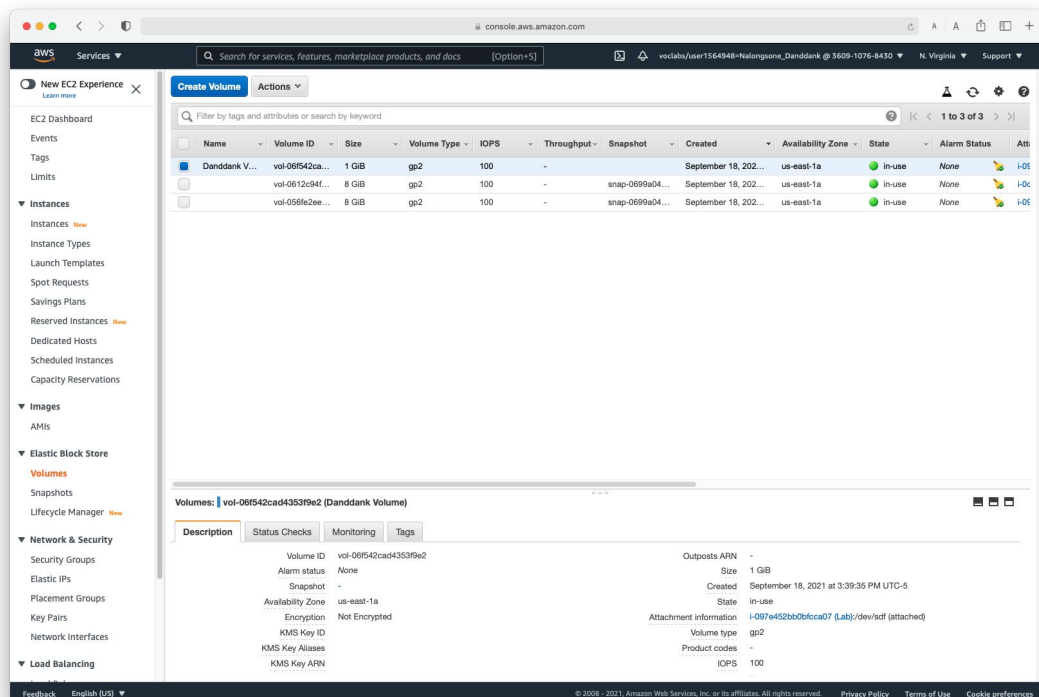
### Part 1: AWS.

#### Exercise 1: Working with EBS.

#### Lab report screen-shot #1:



#### Lab report screen-shot #2:



### Lab report screen-shot #3:

```
ec2-user@ip-10-1-11-66:~  
Last login: Sat Sep 18 17:54:07 on console  
(base) ping58972@Nalongsones-MacBook-Air Week4 % chmod 400 labsuser.pem  
(base) ping58972@Nalongsones-MacBook-Air Week4 % ssh -i "labsuser.pem" ec2-user@ec2-54-174-230-73.compute-1.amazonaws.com  
The authenticity of host 'ec2-54-174-230-73.compute-1.amazonaws.com (54.174.230.73)' can't be established.  
ECDSA key fingerprint is SHA256:WtCMobjh2c40HPhsQLDPbn9D6j3Itcze4dxbsPh+Z+I.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added 'ec2-54-174-230-73.compute-1.amazonaws.com,54.174.230.73' (ECDSA) to the list of known host s.  
  
  _ | _ | _ )  
  _ | ( /  
  _ | \ _ | _ |  
Amazon Linux 2 AMI  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-10-1-11-66 ~]$ ls  
[ec2-user@ip-10-1-11-66 ~]$
```

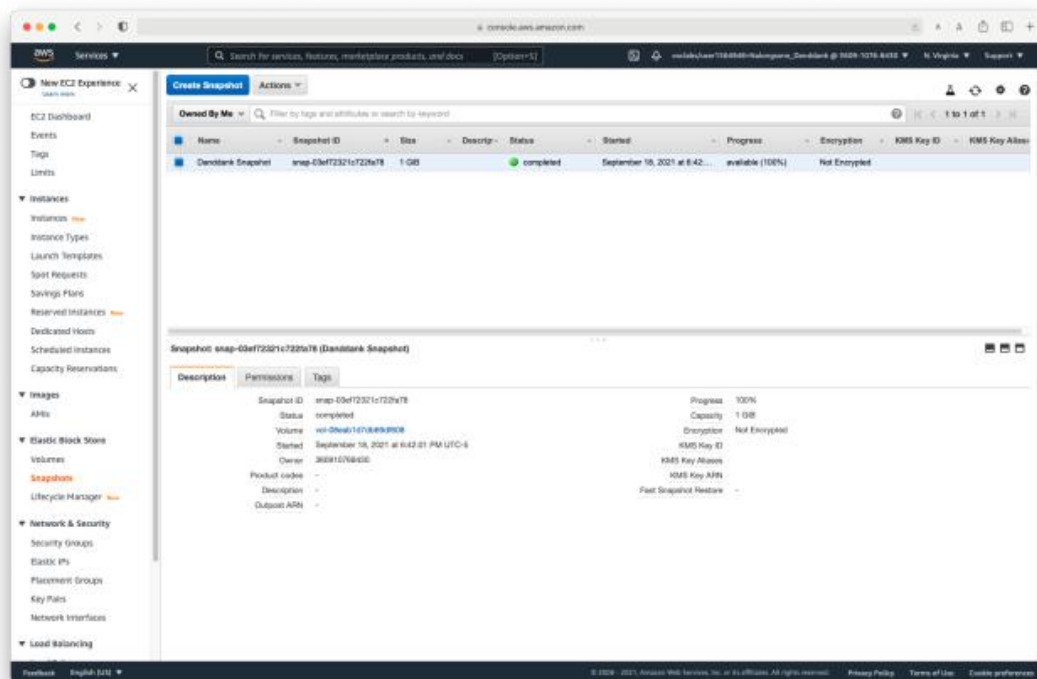
### Lab report screen-shot #4:

```
ec2-user@ip-10-1-11-66:~  
Writing superblocks and filesystem accounting information: done  
  
[ec2-user@ip-10-1-11-66 ~]$ sudo mkdir /mnt/data-store  
[ec2-user@ip-10-1-11-66 ~]$ sudo mount /dev/sdf /mnt/data-store  
[ec2-user@ip-10-1-11-66 ~]$ echo "/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2" | sudo tee -a /etc/fstab  
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2  
[ec2-user@ip-10-1-11-66 ~]$ cat /etc/fstab  
#  
UUID=55ee5a5f-d155-47e0-9121-e6f4522cb2bf / xfs defaults,noatime 1 1  
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2  
[ec2-user@ip-10-1-11-66 ~]$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
devtmpfs        482M   0  482M   0% /dev  
tmpfs           492M   0  492M   0% /dev/shm  
tmpfs           492M 460K  492M   1% /run  
tmpfs           492M   0  492M   0% /sys/fs/cgroup  
/dev/xvda1      8.0G  1.5G   6.6G  19% /  
tmpfs           99M   0   99M   0% /run/user/0  
tmpfs           99M   0   99M   0% /run/user/1000  
/dev/xvdf       976M  1.3M  924M   1% /mnt/data-store  
[ec2-user@ip-10-1-11-66 ~]$ sudo sh -c "echo some text has been written > /mnt/data-store/file.txt"  
[ec2-user@ip-10-1-11-66 ~]$ cat /mnt/data-store/file.txt  
some text has been written  
[ec2-user@ip-10-1-11-66 ~]$ cat /etc/fstab  
#  
UUID=55ee5a5f-d155-47e0-9121-e6f4522cb2bf / xfs defaults,noatime 1 1  
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2  
[ec2-user@ip-10-1-11-66 ~]$
```

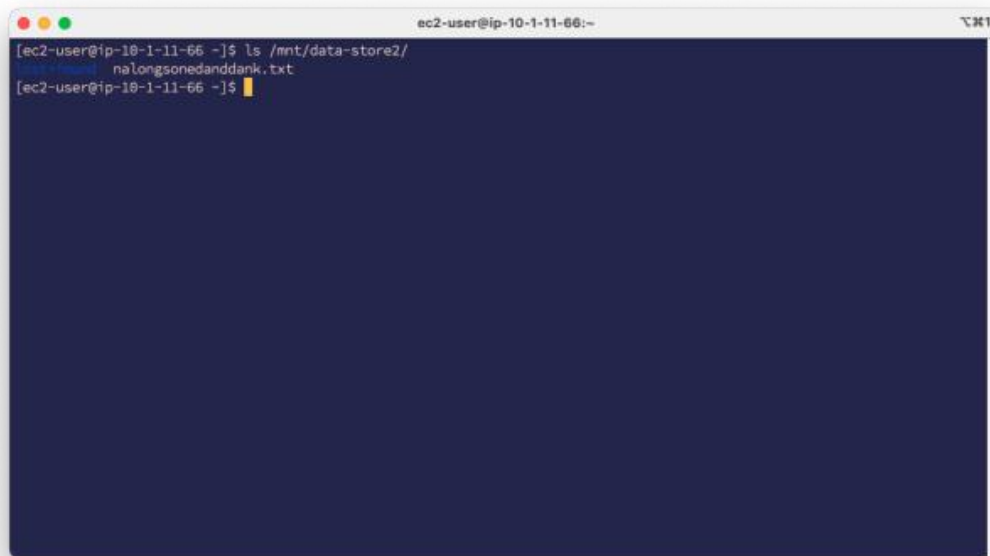
## Lab report screen-shot #5:

```
ec2-user@ip-10-1-11-66:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/xvdf        976M  1.3M  924M   1% /mnt/data-store
[ec2-user@ip-10-1-11-66 ~]$ sudo sh -c "echo some text has been written > /mnt/data-store/file.txt"
[ec2-user@ip-10-1-11-66 ~]$ cat /mnt/data-store/file.txt
some text has been written
[ec2-user@ip-10-1-11-66 ~]$ cat /etc/fstab
#
UUID=55ee5a5f-d155-47e0-9121-e6f4522cb2bf / xfs defaults,noatime 1 1
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-66 ~]$ sudo sh -c "echo some text has been written by Nalonesone Danddank > /mnt/data-store/file.txt"
[ec2-user@ip-10-1-11-66 ~]$ cat /mnt/data-store/file.txt
some text has been written by Nalonesone Danddank
[ec2-user@ip-10-1-11-66 ~]$ sudo rm /mnt/data-store/file.txt
[ec2-user@ip-10-1-11-66 ~]$ ls /mnt/data-store/
[ec2-user@ip-10-1-11-66 ~]$ sudo mkdir /mnt/data-store2
[ec2-user@ip-10-1-11-66 ~]$ sudo mount /dev/sdg /mnt/data-store2
[ec2-user@ip-10-1-11-66 ~]$ ls /mnt/data-store2/
file.txt
[ec2-user@ip-10-1-11-66 ~]$ cat /mnt/data-store/sudo sh -c "echo some text has been written > /mnt/data-store/Nalongsonedanddank.txt"
cat: invalid option -- 'c'
Try 'cat --help' for more information.
[ec2-user@ip-10-1-11-66 ~]$ sudo sh -c "echo some text has been written by Nalonesone Danddank > /mnt/data-store/nalongsonedanddank.txt"
[ec2-user@ip-10-1-11-66 ~]$ cat /mnt/data-store/nalongsonedanddank.txt
some text has been written by Nalonesone Danddank
[ec2-user@ip-10-1-11-66 ~]$
```

## Lab report screen-shot #6:

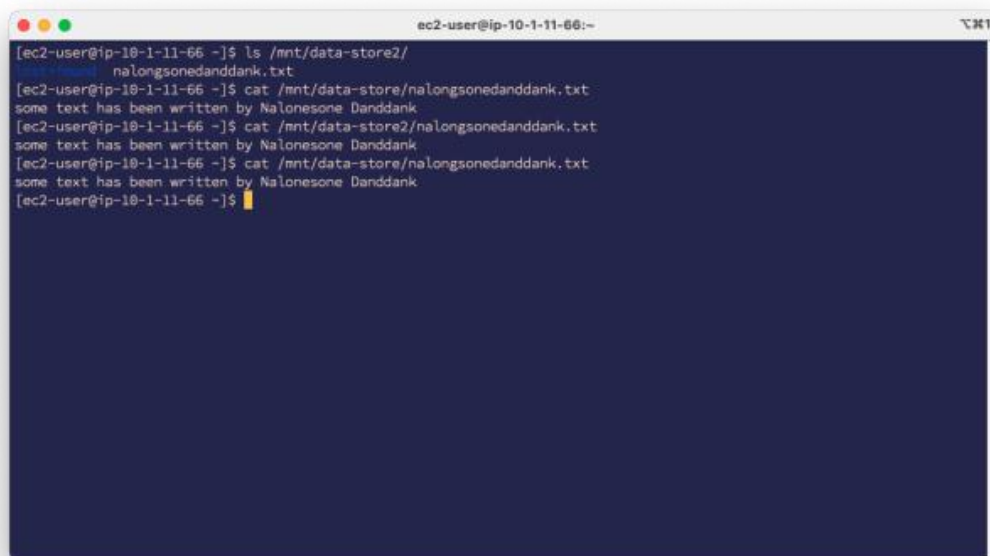


### Lab report screen-shot #7:

A terminal window with a dark blue background and a light gray title bar. The title bar contains the text 'ec2-user@ip-10-1-11-66:~' and a window control icon. The terminal shows the following commands and output:

```
[ec2-user@ip-10-1-11-66 ~]$ ls /mnt/data-store2/  
nalongsonedanddank.txt  
[ec2-user@ip-10-1-11-66 ~]$
```

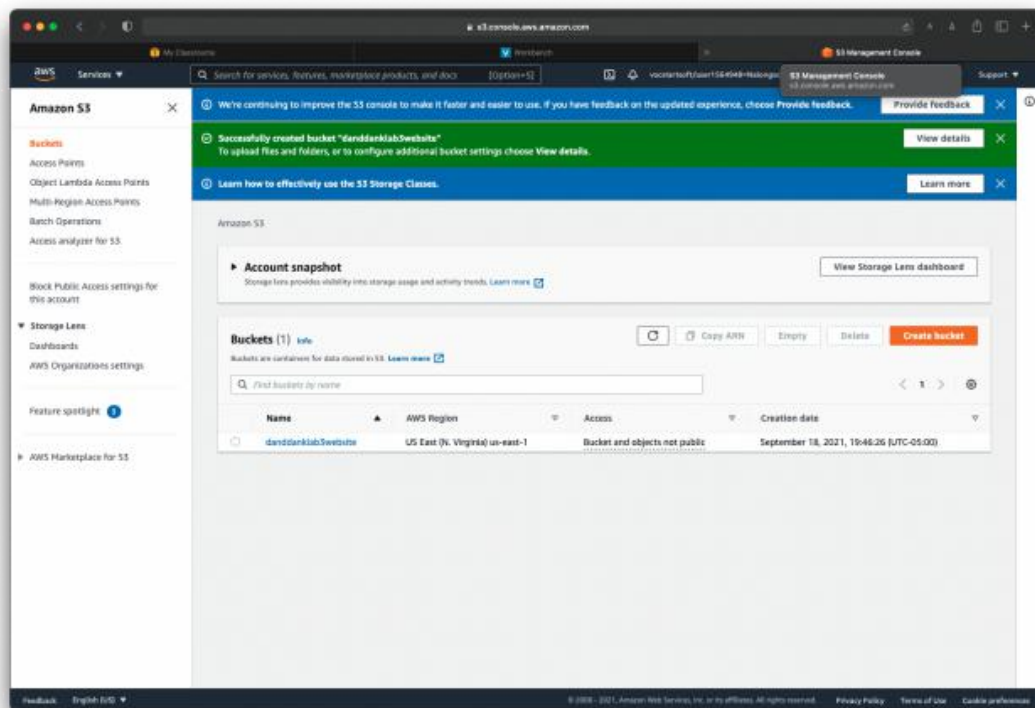
### Lab report screen-shot #8:

A terminal window with a dark blue background and a light gray title bar. The title bar contains the text 'ec2-user@ip-10-1-11-66:~' and a window control icon. The terminal shows the following commands and output:

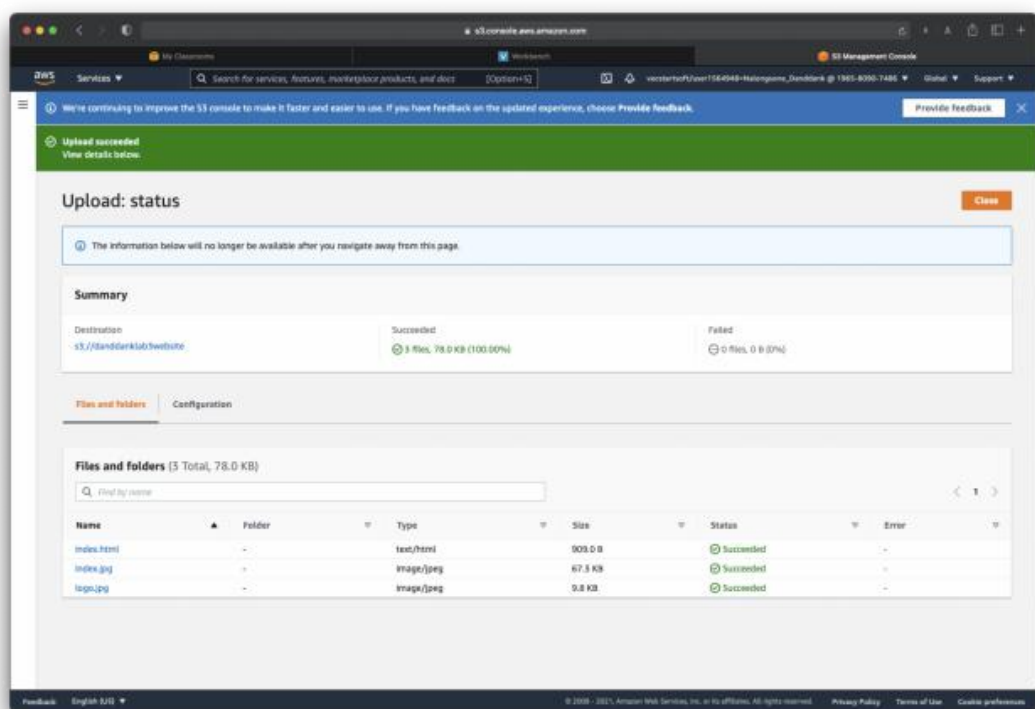
```
[ec2-user@ip-10-1-11-66 ~]$ ls /mnt/data-store2/  
nalongsonedanddank.txt  
[ec2-user@ip-10-1-11-66 ~]$ cat /mnt/data-store/nalongsonedanddank.txt  
some text has been written by Nalonesone Danddank  
[ec2-user@ip-10-1-11-66 ~]$ cat /mnt/data-store2/nalongsonedanddank.txt  
some text has been written by Nalonesone Danddank  
[ec2-user@ip-10-1-11-66 ~]$ cat /mnt/data-store/nalongsonedanddank.txt  
some text has been written by Nalonesone Danddank  
[ec2-user@ip-10-1-11-66 ~]$
```

## Exercise 2: Hosting a static web site on S3.

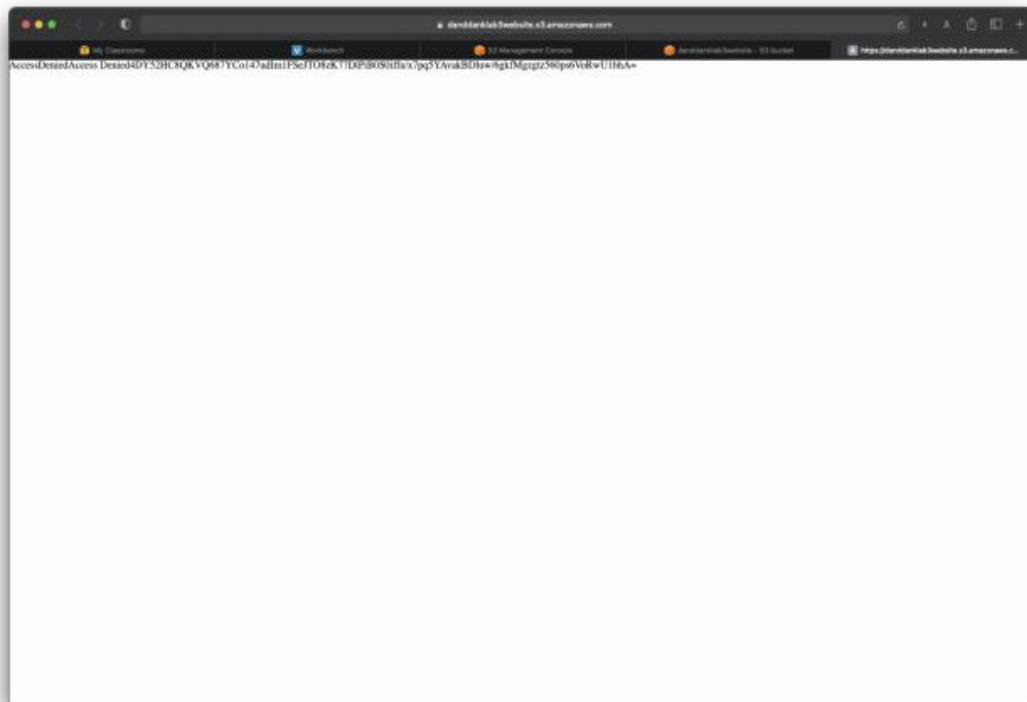
### Lab report screen-shot #9:



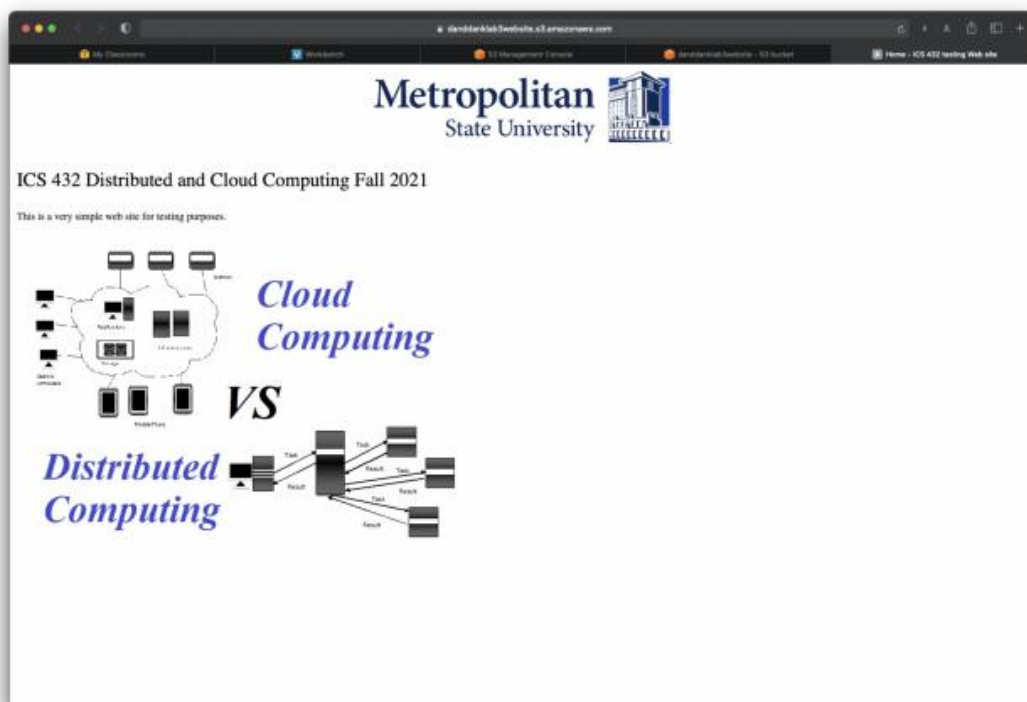
### Lab report screen-shot #10:



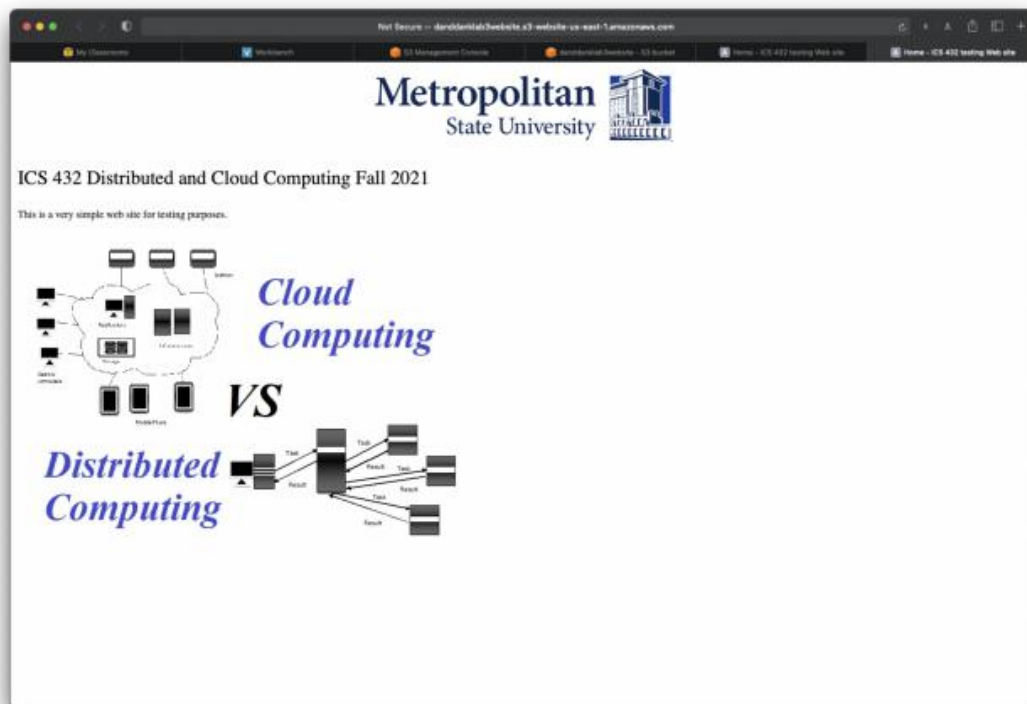
## Lab report screen-shot #11:



## Lab report screen-shot #12:



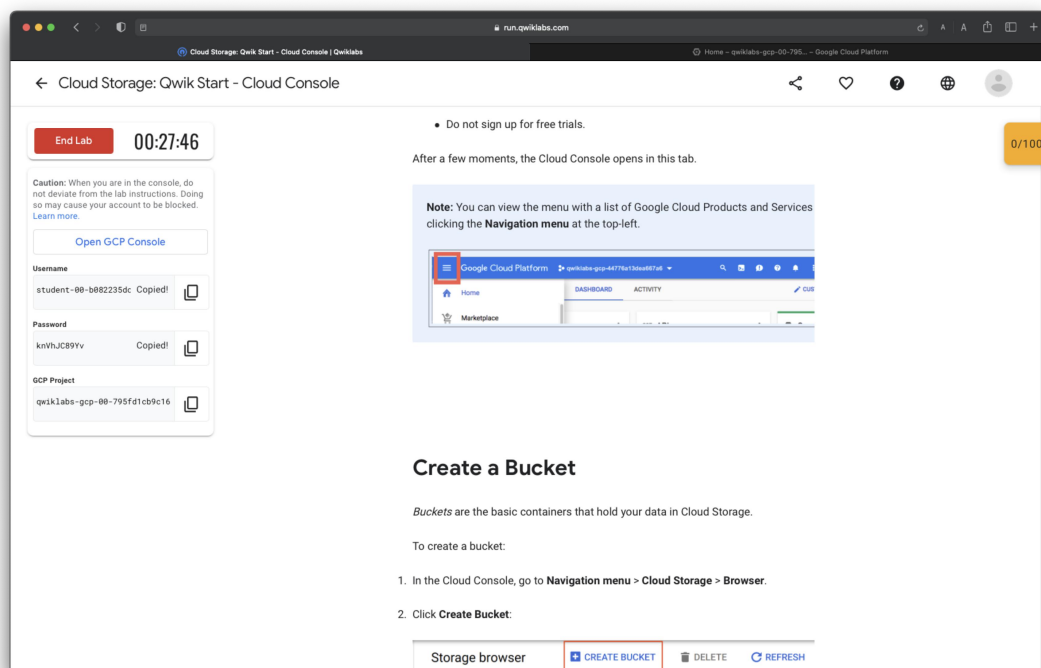
### Lab report screen-shot #13:



### Part 2: GCP.

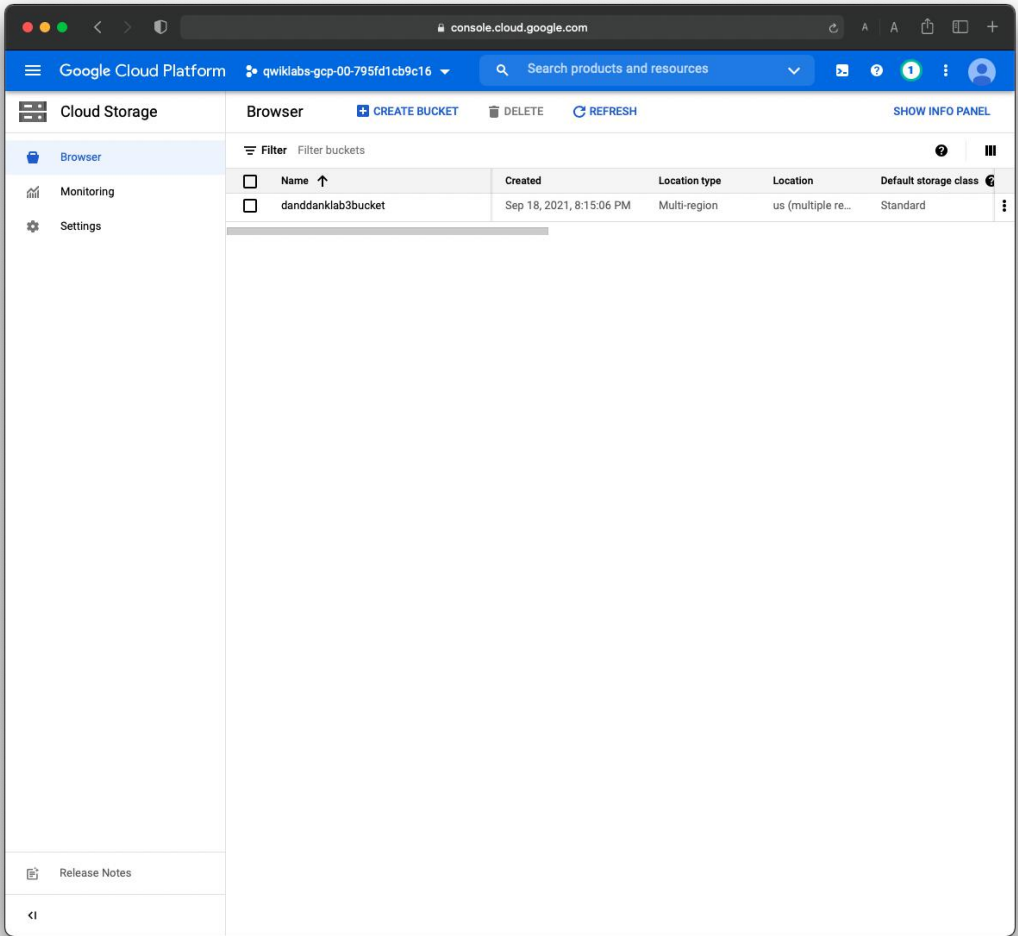
#### Exercise 3: Qwiklab: Cloud Storage: Qwik start – Cloud Console.

### Lab report screen-shot #14:



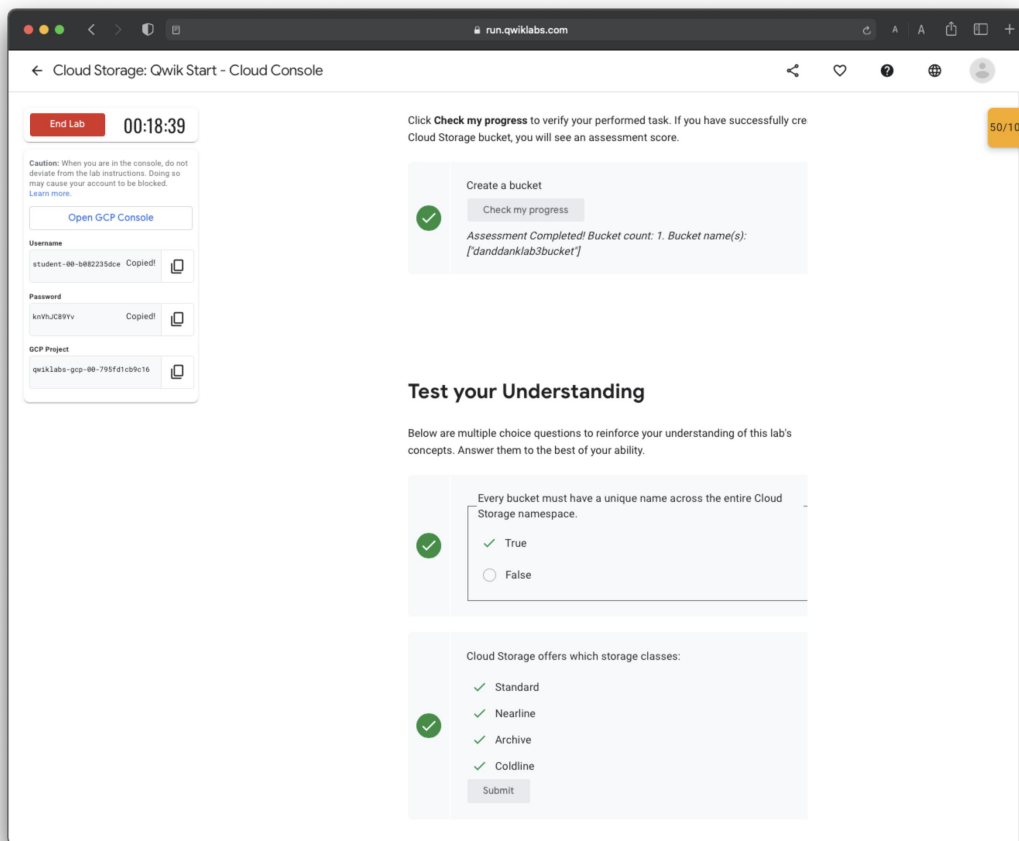


Lab report screen-shot #15:

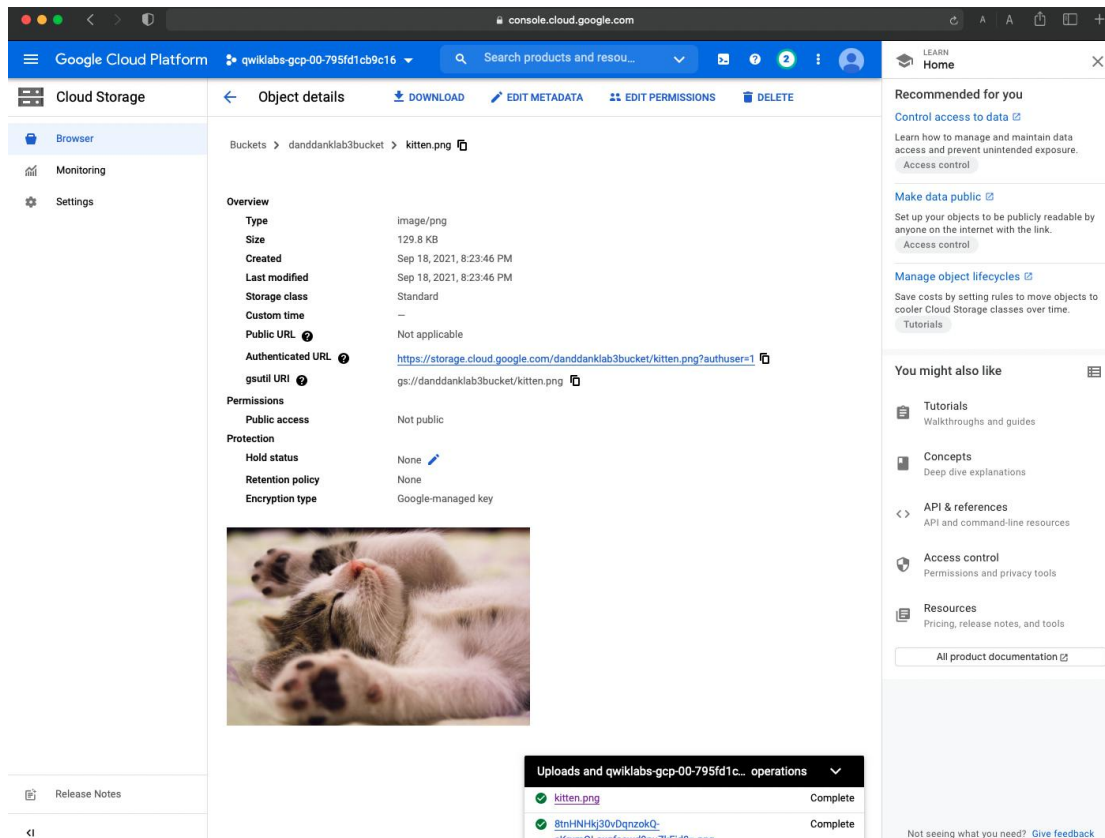




## Lab report screen-shot #16:



## Lab report screen-shot #17:



## Lab report screen-shot #18:

End Lab

00:14:07

Cautions: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked.  
[Learn more.](#)

Open GCP Console

Username

student-00-b082235dce Copied!

Password

knVhJC89Yv Copied!

GCP Project

qwiklabs-gcp-00-795fd1cb9c16 Copied!

### Test Completed Task

Click **Check my progress** to verify your performed task. If you have successfully uploaded object in your bucket, you will see an assessment score.

✓

Upload an object into the bucket (kitten.png)

Check my progress

Assessment Completed! Bucket name(s): ["danddanklab3bucket"]  
Object count: [1]

### Test your Understanding

Below are multiple choice questions to reinforce your understanding of this lab's concepts. Answer them to the best of your ability.

✓

Object names must be unique only within a given bucket.

✓ True

False

### Share an Object Publicly

To allow public access to the bucket and create a publicly accessible URL for the image:

70/100

## Lab report screen-shot #19:

Google Cloud Platform

qwiklabs-gcp-00-795fd1cb9c16

Search products and resou...

LEARN Home

Cloud Storage

Browser

Monitoring

Settings

Bucket details

REFRESH

danddanklab3bucket

OBJECTS CONFIGURATION PERMISSIONS RETENTION LIFECYCLE

Buckets > danddanklab3bucket

UPLOAD FILES UPLOAD FOLDER CREATE FOLDER MANAGE HOLDS DOWNLOAD DELETE

Filter by name prefix only Filter objects and folders

<input type="checkbox"/>	Name	Size	Type	Created	Storage class	Last modified	
<input type="checkbox"/>	dogy.jpeg	4.6 KB	image/jpeg	Sep 18, 20...	Standard	Sep 18, 20...	
<input type="checkbox"/>	kitten.png	129.8 KB	image/png	Sep 18, 20...	Standard	Sep 18, 20...	

Recommended for you

Control access to data

Learn how to manage and maintain data access and prevent unintended exposure.

Access control

Make data public

Set up your objects to be publicly readable by anyone on the internet with the link.

Access control

Manage object lifecycles

Save costs by setting rules to move objects to cooler Cloud Storage classes over time.

Tutorials

You might also like

Tutorials

Walkthroughs and guides

Concepts

Deep dive explanations

API & references

API and command-line resources

Access control

Permissions and privacy tools

Resources

Pricing, release notes, and tools

All product documentation

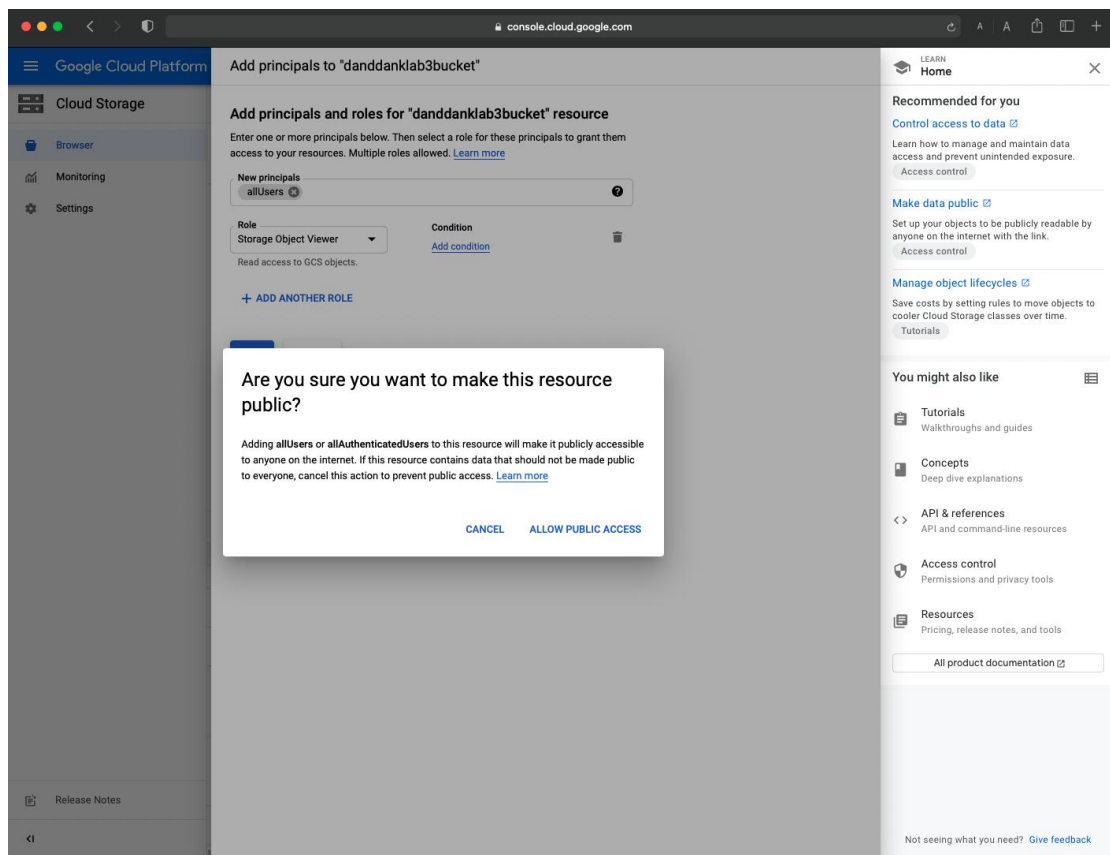
Uploads and qwiklabs-gcp-00-795fd1c... operations

dogy.jpeg Complete

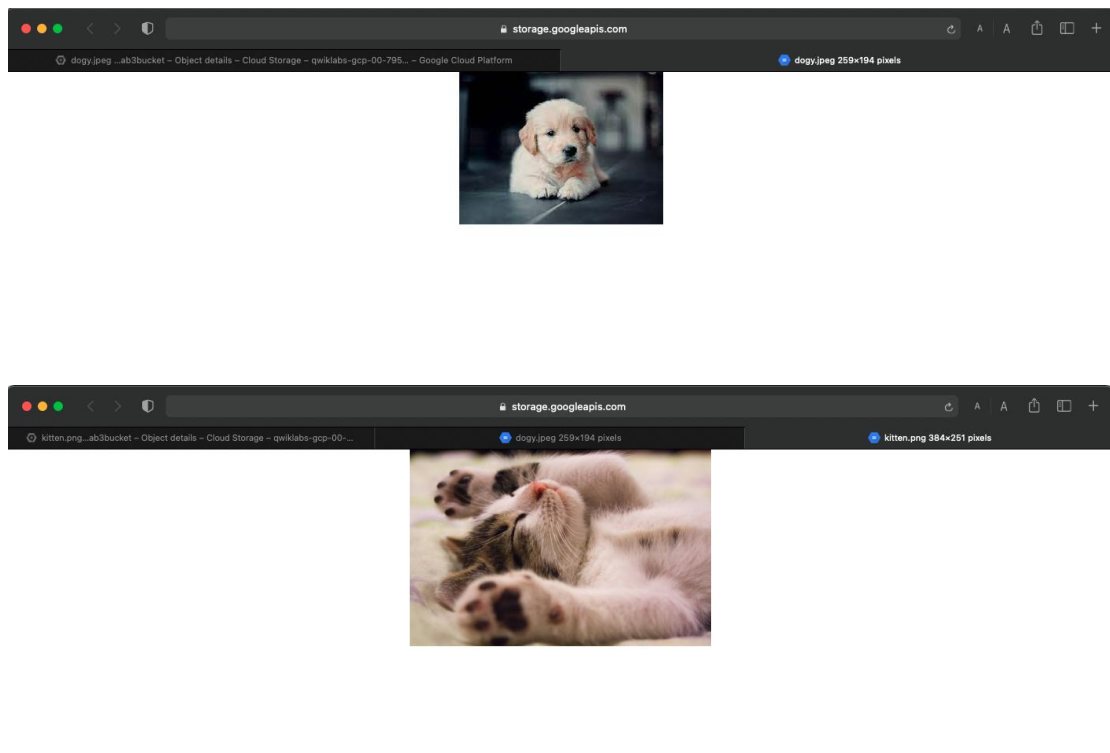
kitten.png Complete

8tnHNHkj30vDqznokQ-cKrxmOLxgfafswd9nuZxEjd8.png Complete

Not seeing what you need? Give feedback



## Lab report screen-shot #20:



## Lab report screen-shot #21:

The screenshot shows the Google Cloud Platform console interface. The main content area displays the 'Bucket details' for 'danddanklab3bucket'. A warning message indicates that the bucket is publicly accessible. Below this, there are tabs for 'OBJECTS', 'CONFIGURATION', 'PERMISSIONS', 'RETENTION', and 'LIFECYCLE'. The 'OBJECTS' tab is active, showing a list of objects in the bucket:

Name	Size	Type	Created	Storage class	Last modified
doggy.jpeg	4.6 KB	image/jpeg	Sep 18, 20...	Standard	Sep 18, 20...
folder1/	-	Folder	-	-	-
kitten.png	129.8 KB	image/png	Sep 18, 20...	Standard	Sep 18, 20...

On the right side, there are sections for 'Recommended for you' and 'You might also like', both containing links to various Google Cloud resources. At the bottom, a small window shows the status of uploads, indicating that two files were successfully uploaded.

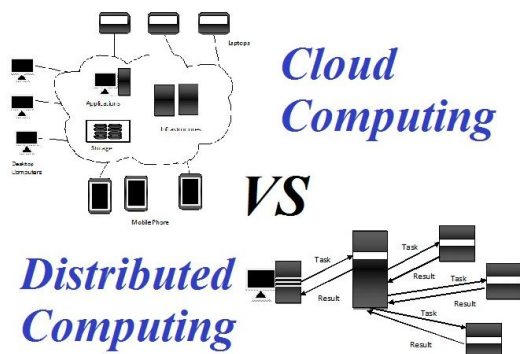
## Lab report screen-shot #22:

The screenshot shows a web browser window displaying the Metropolitan State University logo and a simple web page. The browser's address bar shows 'storage.googleapis.com'. The page content includes the university's name and a small image of a building.



### ICS 432 Distributed and Cloud Computing Fall 2021

This is a very simple web site for testing purposes.



## Lab report screen-shot #23:

End Lab

00:08:21

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. [Learn more.](#)

Open GCP Console

Username

student-00-9abb088645 Copied!

Password

b2fK4Zx2w Copied!

GCP Project

qwiklabs-gcp-03-29489e4c64f2

1. Click the arrow next to **Bucket details** to return to the buckets level.

2. Select the bucket.


3. Select the checkbox next to **folder1**.

4. Click on the **Delete** button.

5. In the window that opens, type `DELETE` to confirm the deletion of the folder.

6. Click **Delete** to permanently delete the folder and all objects and subfolders in it.

### Congratulations!



#### Finish Your Quest

This self-paced lab is part of the Qwiklabs [Baseline: Infrastructure](#) Quest. A Quest is series of related labs that form a learning path. Completing this Quest earns you the badge above, to recognize your achievement. You can make your badge (or badges) public and link to them in your online resume or social media account. [Enroll in this Quest](#) and get immediate completion credit if you've taken this lab. [See other available Qwiklabs Quests.](#)

### Next Steps / Learn More

100/100