

Lab 3.2

1. Using gsutil:

– Create 3 buckets.

```
mohamed@DevOps:~$ gsutil mb -c STANDARD -l us-east1 -p stellar-river-354117 gs://stellar-river-354117-itibucket1
Creating gs://stellar-river-354117-itibucket1/...
ServiceException: 409 A Cloud Storage bucket named 'stellar-river-354117-itibucket1' already exists. Try another name.
luding those outside of your organization.

mohamed@DevOps:~$ gsutil mb -c STANDARD -l us-east1 -p stellar-river-354117 gs://stellar-river-354117-itibucket2
Creating gs://stellar-river-354117-itibucket2/...

mohamed@DevOps:~$ gsutil mb -c STANDARD -l us-east1 -p stellar-river-354117 gs://stellar-river-354117-itibucket3
Creating gs://stellar-river-354117-itibucket3/...

mohamed@DevOps:~$
```

– Enable Versioning for them.

```
mohamed@DevOps:~$ gsutil versioning set on gs://stellar-river-354117-itibucket1
Enabling versioning for gs://stellar-river-354117-itibucket1/...

mohamed@DevOps:~$ gsutil versioning set on gs://stellar-river-354117-itibucket2
Enabling versioning for gs://stellar-river-354117-itibucket2/...

mohamed@DevOps:~$ gsutil versioning set on gs://stellar-river-354117-itibucket3
Enabling versioning for gs://stellar-river-354117-itibucket3/...

mohamed@DevOps:~$
```

– Upload a file into bucket-1 then copy it from bucket-1 into bucket-2 & bucket-3.

```
mohamed@DevOps:~$ gsutil cp draw.png gs://stellar-river-354117-itibucket1
Copying file://draw.png [Content-Type=image/png]...
\ [1 files][310.6 KiB/310.6 KiB]
Operation completed over 1 objects/310.6 KiB.

mohamed@DevOps:~$ gsutil cp gs://stellar-river-354117-itibucket1/draw.png gs://stellar-river-354117-itibucket1/ gs://stellar-river-354117-itibucket2/
CommandException: cp: "gs://stellar-river-354117-itibucket1/draw.png" and "gs://stellar-river-354117-itibucket1/draw.png" are the same file - abort.

mohamed@DevOps:~$ gsutil cp gs://stellar-river-354117-itibucket1/draw.png gs://stellar-river-354117-itibucket2/ gs://stellar-river-354117-itibucket3/
Copying gs://stellar-river-354117-itibucket1/draw.png [Content-Type=image/png]...
Omitting bucket "gs://stellar-river-354117-itibucket2/". (Did you mean to do cp -r?)
Operation completed over 1 objects/310.6 KiB.

mohamed@DevOps:~$ gsutil cp gs://stellar-river-354117-itibucket1/draw.png gs://stellar-river-354117-itibucket3/
Copying gs://stellar-river-354117-itibucket1/draw.png [Content-Type=image/png]...
\ [1 files][310.6 KiB/310.6 KiB]
Operation completed over 1 objects/310.6 KiB.

mohamed@DevOps:~$ gsutil cp gs://stellar-river-354117-itibucket1/draw.png gs://stellar-river-354117-itibucket2/
Copying gs://stellar-river-354117-itibucket1/draw.png [Content-Type=image/png]...
\ [1 files][310.6 KiB/310.6 KiB]
Operation completed over 1 objects/310.6 KiB.

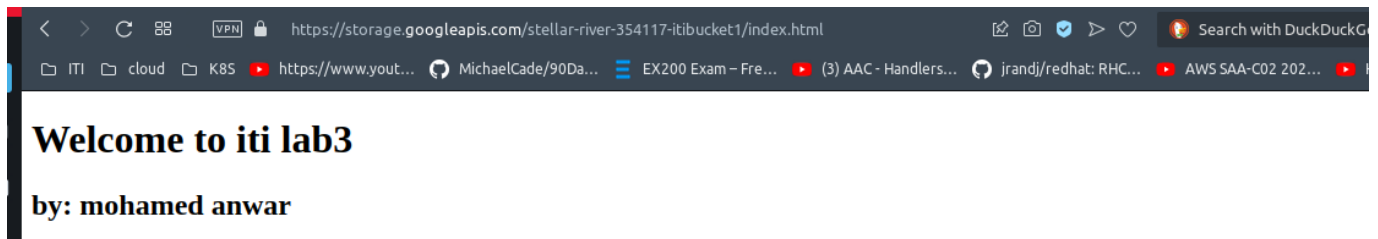
mohamed@DevOps:~$
```

Filter buckets						
<input type="checkbox"/>	Name ↑	Created	Location type	Location	Default storage class ?	Last modified ?
<input type="checkbox"/>	stellar-river-354117-itibucket1	Jun 26, 2022, 1:08:48 AM	Region	us-east1	Standard	Jun 26, 2022, 1:17:32 AM
<input type="checkbox"/>	stellar-river-354117-itibucket2	Jun 26, 2022, 1:09:19 AM	Region	us-east1	Standard	Jun 26, 2022, 1:17:41 AM
<input type="checkbox"/>	stellar-river-354117-itibucket3	Jun 26, 2022, 1:09:28 AM	Region	us-east1	Standard	Jun 26, 2022, 1:17:50 AM

– Delete the file from bucket-1

```
mohamed@DevOps:~$ gsutil rm gs://stellar-river-354117-itibucket1/draw.png
Removing gs://stellar-river-354117-itibucket1/draw.png...
/ [1 objects]
Operation completed over 1 objects.
mohamed@DevOps:~$
```

2. Host a static website on a standard public GCS bucket [hint: link].



3. Deploy MySQL private instance and connect to it then create a new database.

Create database instance

Google Cloud

Anwer-gcp

Search

Products, resources, docs (/)

SQL

Instances

+ CREATE INSTANCE

MIGRATE DATA

Filter

Enter property name or value

<input type="checkbox"/>	Instance ID ? ↑	Type	Public IP address	Private IP address	Instance connection name	High availability
<input type="checkbox"/>	✔ mysql-iti	MySQL 8.0		10.178.80.5	stellar-river-354117:us-east1:mysql-iti	^ ADD

Create VM to connect to database from it

[INSTANCES](#) [INSTANCE SCHEDULES](#)

VM instances are highly configurable virtual machines for running workloads on Google infrastructure. [Learn more](#)

Filter Enter property name or value								
<input type="checkbox"/>	Status	Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input type="checkbox"/>		bastion-sql	us-east1-c			10.0.1.14 (nic0)	35.243.179.63 (nic0)	SSH

instal Cloud SQL Auth proxy on vm and connect to database

```

sudo apt-get update
sudo apt-get install mariadb-server-10.5
sudo service mysqld stop
sudo apt-get install wget
wget https://dl.google.com/cloudsql/cloud_sql_proxy.linux.amd64 -O
cloud_sql_proxy
chmod +x cloud_sql_proxy
./cloud_sql_proxy -instances=stellar-river-354117:us-east1:mysql-
iti=tc:3306

```

Open other terminal connect to it

```
mysql -u root -p --host 127.0.0.1 --port 3306
```

create database test

```

https://ssh.cloud.google.com/v2/ssh/projects/stellar-river-354117/zones/us-east1-c/instances/bas...
https://ssh.cloud.google.com/v2/ssh/projects/stellar-river-354117/zones/us-east1-c/instances/bas...

SSH-in-browser
Linux bastion-sql 5.10.0-15-cloud-amd64 #1 SMP Debian 5.10.120-1 (2022-06-09) x86_64
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Sun Jun 26 16:17:11 2022 from 35.235.240.64
mohamedanwer006@bastion-sql:~$ mysql -u root -p --host 127.0.0.1 --port 3306
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 408
Server version: 8.0.26-google (Google)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]>
MySQL [(none)]> create database test
-> ;
Query OK, 1 row affected (0.009 sec)

MySQL [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
| test |
+-----+
5 rows in set (0.006 sec)

MySQL [(none)]>

systemd/system/rsync.service
Setting up mariadb-server-core-10.5 (1:10.5.15-0+deb11u1) ...
Setting up perl (5.32.1-4+deb11u2) ...
Setting up libio-html-perl (1.004-2) ...
Setting up mariadb-client-core-10.5 (1:10.5.15-0+deb11u1) ...
Setting up libtimedate-perl (2.3300-2) ...
Setting up mariadb-client-10.5 (1:10.5.15-0+deb11u1) ...
Setting up libfcgi-perl:amd64 (0.79+ds-2) ...
Setting up libterm-readkey-perl (2.38-1+b2) ...
Setting up liburi-perl (5.08-1) ...
Setting up libdbi-perl:amd64 (1.643-3+b1) ...
Setting up libhttp-date-perl (6.05-1) ...
Setting up libclone-perl (0.45-1+b1) ...
Setting up libhtml-tagset-perl (3.20-4) ...
Setting up liblwp-mediatypes-perl (6.04-1) ...
Setting up libencode-locale-perl (1.05-1.1) ...
Setting up mariadb-server-10.5 (1:10.5.15-0+deb11u1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/mariadb.service → /lib/
systemd/system/mariadb.service.
Setting up libdbd-mariadb-perl (1.21-3) ...
Setting up libhtml-parser-perl (3.75-1+b1) ...
Setting up libhttp-message-perl (6.28-1) ...
Setting up libcgi-pm-perl (4.51-1) ...
Setting up libhtml-template-perl (2.97-1.1) ...
Setting up libcgi-fast-perl (1:2.15-1) ...
Processing triggers for libc-bin (2.31-13+deb11u3) ...
mohamedanwer006@bastion-sql:~$ sudo service mysqld stop
mohamedanwer006@bastion-sql:~$ chmod +x cloud_sql_proxy
mohamedanwer006@bastion-sql:~$ ./cloud_sql_proxy -instances=stellar-river-354117:us
-east1:mysql-iti=tc:3306
2022/06/26 16:19:26 Rlimits for file descriptors set to {Current = 8500, Max = 1048
576}
2022/06/26 16:19:30 Listening on 127.0.0.1:3306 for stellar-river-354117:us-east1:m
ysql-iti
2022/06/26 16:19:30 Ready for new connections
2022/06/26 16:19:30 Generated RSA key in 861.495432ms
2022/06/26 16:21:00 New connection for "stellar-river-354117:us-east1:mysql-iti"
2022/06/26 16:21:00 refreshing ephemeral certificate for instance stellar-river-354
117:us-east1:mysql-iti
2022/06/26 16:21:00 Scheduling refresh of ephemeral certificate in 54m59s

```