**DevOps Lab 2.4: Docker Volumes**

Working with Docker volumes

**Step 1**

Open the Cloud Platform Console at [https://console.cloud.google.com](https://console.cloud.google.com/). Go to Compute Engine and VM Instances. Start the VM if it isn’t running, and connect using SSH.

**Step 2**

Create a Docker volume to which you will add persistent data.

docker volume create --name mydata

**Step 3**

Create a Docker container, attach the data volume, and add persistent data.

Pull a light-weight Alpine distribution image.

docker pull alpine

Create a container from Alpine, and mount the volume mydata to /mnt.

docker run -ti --name client -v mydata:/mnt alpine /bin/sh

Go to the /mnt directory, touch (create) two files, and verify the exist.

cd /mnt  
touch foo.txt  
touch bar.txt  
ls

Exit the container.

exit

Verfiy that the container exists and is stopped.

docker ps -a

Delete the container and then verify it is gone.

docker rm client  
docker ps -a

Run a new container, and mount the volume mydata to /mnt again.

docker run --rm -ti -v mydata:/mnt alpine /bin/sh

Go to the /mnt directory, and observe if the files still exist.

cd /mnt  
ls

Exit the container.

exit

Verify that the volume still exists.

docker volume ls

**Step 4**

Clean up artifacts.

docker rm -f $(docker ps -aq)  
docker rmi $(docker images -q)  
docker volume rm $(docker volume ls -q)