Your team wants to run an nginx service in a Docker Swarm cluster with multiple replicas, but they want to run these containers with a customized nginx configuration file. The same file can be used for all replicas, and the team wants to store this file externally in a central location so that the nginx configuration can be changed without the need to re-create containers.

Your task is to create a shared storage volume housed on an external storage server. This volume should be accessible to all containers in the cluster regardless of which node they are running on. This volume will contain the nginx configuration file and will be mounted to each of the service's replica containers.

Configure the swarm so that it meets the following criteria:

1. Create a shared storage directory at /etc/docker/storage on the external storage server. Make sure cloud\_user can read and write to this directory.

2. Place the nginx config file at /etc/docker/storage/nginx.conf. You can find a copy of this file on the external storage server at /home/cloud\_user/nginx.conf.

3. Install the vieux/sshfs docker plugin on the swarm cluster.

4. Create a service called nginx-web using the nginx:latest image with 3 replicas. Mount the shared volume to the service's containers at /etc/nginx/. Publish port 9773 on the service containers to port 8080 on the swarm nodes.

5. Create a Docker volume called nginx-config-vol using the vieux/sshfs driver that stores data in /etc/docker/storage on the external storage server. You can use the cloud\_user credentials to do this. Note that you should create the volume as part of the docker service create command so that the volume will be configured automatically on all swarm nodes that execute the service's tasks.

Good luck!

mkdir -p /etc/docker/storage

sudo chown ubuntu:ubuntu /etc/docker/shared

sudo chown ubuntu:ubuntu /etc/docker/storage

cp /home/ubuntu/nginx.conf /etc/docker/storage/

docker plugin install --grant-all-permissions vieux/sshfs

docker service create -d --replicas=3 --name nginx-web -p 8085:9773 --mount volume-driver=vieux/sshfs,source=nginx-config- vol,target=/etc/nginx/,volume-opt=sshcmd=ubuntu@172.31.1.195:/etc/docker/storage nginx:latest

docker volume create --driver vieux/sshfs -o sshcmd=testuser@172.31.19.175:/etc/docker/storage -o password=password nginx-config-vol

docker volume ls

DRIVER VOLUME NAME

local 7d738f4eadf15005453fada694c5e6d8b3192dc7900b6500555576db592ae4f6

local 61e725730e36b09d33dcda836514b9e0bb61b80e94c95b046c2b1ed8310d081a

local a4a03bd81960db518e1b7503b1fda3a69ae916d198b1e8b1b0ce4285c9e676b2

local fefd4c31ad41b61704d6c83b351fd29dbb26025ad4382882081aacf9cf95d3cd

vieux/sshfs:latest nginx-config-vol