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POD LAB 3:

Q-1 What is the command to delete ALL images and containers?

docker kill $(docker ps -a -q)

```
docker-compose version 1.24.0, build 0aa59064
ubuntu@ip-172-31-51-250:~$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                CREATED            STATUS                      PORTS      NAMES
4f0afd13c99b   ubuntu/apache2 "apache2-foreground"   13 minutes ago     Up 13 minutes               80/tcp     loving_panini
6cb739dbe586   hello-world    "/hello"               41 minutes ago     Exited (0) 41 minutes ago              infallible_tesla
b4163c871ec4   nginx          "/docker-entrypoint.…" 44 minutes ago     Up 44 minutes               80/tcp     blissful_gates
7c77d2e5082e   ubuntu         "/bin/bash"            49 minutes ago     Exited (0) 49 minutes ago              cool_proskuriakova
6405b1b6c971   hello-world    "/hello"               59 minutes ago     Exited (0) 59 minutes ago              zen_blackwell
79e7e0bf3340   hello-world    "/hello"               About an hour ago  Exited (0) About an hour ago           elated_dubinsky
```

```
ubuntu@ip-172-31-51-250:~$ docker kill $(docker ps -a -q)
4f0afd13c99b
b4163c871ec4
```

Q-2 What is the command to build an image from a dockerfile?

docker build -t <image name> .

For apache2:

```
ubuntu@ip-172-31-51-250:~$ touch docker file
ubuntu@ip-172-31-51-250:~$ nano docker file
```

```
FROM ubuntu
RUN apt-get update
RUN apt-get install apache-2 -y
CMD["apache1", "-D","FOREGROUND"]
```

```
ubuntu@ip-172-31-51-250:~$ nano dockerfile
ubuntu@ip-172-31-51-250:~$ docker build -t builtapache .
[+] Building 19.9s (7/7) FINISHED
 => [internal] load build definition from dockerfile
 => => transferring dockerfile: 138B
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load metadata for docker.io/library/ubuntu:latest
 => [1/3] FROM docker.io/library/ubuntu
 => [2/3] RUN apt-get update
 => [3/3] RUN apt-get install apache2 -y
 => exporting to image
 => => exporting layers
 => => writing image sha256:204e82e34c8c1fa3cd0a64fd16a87bd267a9d3dafeb58c82ea4a8762957ea430
 => => naming to docker.io/library/builtapache
ubuntu@ip-172-31-51-250:~$ 
```
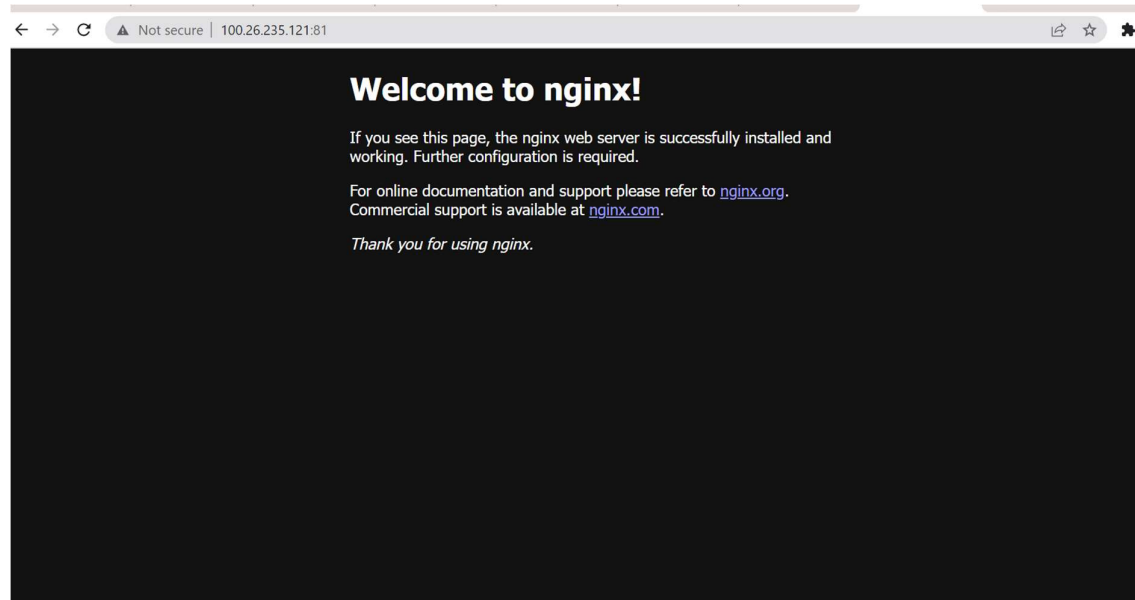
Q-3 What is the command to attach a volume to a container?

nano docker-compose.yml file

docker run -dt -p 81:80 -v $(pwd):/var/www/html/ nginx

```
ubuntu@ip-172-31-51-250:~$ nano docker-compose.yml file
ubuntu@ip-172-31-51-250:~$ docker run -dt -p 81:80 -v $(pwd):/var/www/html/ forlab
```

```
ubuntu@ip-172-31-51-250:~$ docker run -dt -p 81:80 -v $(pwd):/var/www/html/ nginx
912359e67597b63219dde6abfd0a03e40a862e4e26c98ef62de3084afd8dc41d
```

← → C ⚠ Not secure | 100.26.235.121:81

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

Q.4 What is the command to run container(s) from a YAML file in

detach mode?

Docker-compose up -d

```
ubuntu@ip-172-31-51-250:~$ docker kill 912359e67597
912359e67597
ubuntu@ip-172-31-51-250:~$ docker-compose up -d
Starting ubuntu_apache2-server_1 ... done
ubuntu@ip-172-31-51-250:~$
```

Q.5 What is the docker-compose command to stop container(s) which

were created from a YAML file?

docker-compose down

```
ubuntu@ip-172-31-51-250:~$ docker-compose down
Stopping ubuntu_apache2-server_1 ... done
Removing ubuntu_apache2-server_1 ... done
Removing network ubuntu_default
ubuntu@ip-172-31-51-250:~$
```

Q-6 What is the command to ONLY create an image from a YAML

file?

docker-compose build

```
ubuntu@ip-172-31-51-250:~$ docker-compose build
Building apache2-server
Step 1/4 : FROM ubuntu
 ---> 58db3edaf2be
Step 2/4 : RUN apt-get update
 ---> Using cache
 ---> 964c660200c9
Step 3/4 : RUN apt-get install apache2 -y
 ---> Using cache
 ---> e11eb5f5d593
Step 4/4 : CMD ["apachectl","-D", "FOREGROUND"]
 ---> Using cache
 ---> 5edf267da482
Successfully built 5edf267da482
Successfully tagged oraclezero/apache2_installed:v4
ubuntu@ip-172-31-51-250:~$
```

Q.7 What is the command to Re-Create an image and RUN container(s) from a YAML file?

docker-compose up --build -d

```
ubuntu@ip-172-31-51-250:~$ docker-compose up --build -d
Building apache2-server
Step 1/4 : FROM ubuntu
 ---> 58db3edaf2be
Step 2/4 : RUN apt-get update
 ---> Using cache
 ---> 964c660200c9
Step 3/4 : RUN apt-get install apache2 -y
 ---> Using cache
 ---> e11eb5f5d593
Step 4/4 : CMD ["apachectl","-D", "FOREGROUND"]
 ---> Using cache
 ---> 5edf267da482
Successfully built 5edf267da482
Successfully tagged oraclezero/apache2_installed:v4
ubuntu_apache2-server_1 is up-to-date
ubuntu@ip-172-31-51-250:~$
```