# Lab Exercise 3: Working with Docker Volumes

#### Step 1: Create a Docker Volume

Create a new Docker volume:

docker volume create my data volume

C:\Users\OM VATS>docker volume create my\_data\_volume my\_data\_volume

docker volume ls

## Step 2: Run a Container with the Volume Mounted

docker run -d --name my\_nginx -v my\_data\_volume:/usr/share/nginx/html -p 8008:80 nginx

```
C:\Users\OM VATS>docker run -d --name my_nginx -v my_data_volume:/usr/share/nginx/html -p 8008:80 nginx

Jnable to find image 'nginx:latest' locally

Latest: Pulling from library/nginx
a2318d6c47ec: Pull complete
995d327c79ae: Pull complete
095d327c79ae: Pull complete
705faa25db775: Pull complete
705d6fb0cfb2b: Pull complete
9723edc10c17: Pull complete
24b3fdc4d1e3: Pull complete
24b3fdc4d1e3: Pull complete
2122471704d5: Pull complete
Digest: sha256:04ba37404J3ccd2fc5c593885c0eacddebabd5ca375f9323666f28dfd5a9710e3
Status: Downloaded newer image for nginx:latest
Ldb161031b7b57a05202ffeb6c6666b8d07ea66cdc271feb2dbaf78bc393b4086
```

```
C:\Users\OM VATS>docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

1db161031b7b nginx "/docker-entrypoint..." 55 seconds ago Up 55 seconds 0.0.0.0:8008->80/tcp my_nginx
```

docker ps

## **Step 3: Interact with the Volume**

docker exec -it my\_nginx bash

echo "<h1>Hello, Docker Volume</h1>" > /usr/share/nginx/html/index.html
exit

# **Step 4: Test Data Persistence**

docker stop my\_nginx

docker rm my\_nginx

docker run -d -p 8011:80 -v my\_data\_volume:/usr/share/nginx/html nginx



Hello, Docker Volume

#### Step 5: Clean Up

docker stop new\_nginx
docker rm new\_nginx

C:\Users\OM VATS>docker stop my\_nginx
my\_nginx
C:\Users\OM VATS>docker rm my\_nginx
my\_nginx

 $docker\ volume\ rm\ my\_data\_volume$ 

docker volume ls

```
C:\Users\OM VATS>docker volume rm my_data_volume
my_data_volume
C:\Users\OM VATS>docker volume ls
DRIVER VOLUME NAME
```