Lab: Docker Volumes

```
DRIVER     VOLUME NAME
local      27694a21cdaaa032e3ac49a77248e6d14b419b1cc60b4d80fdea3b41
d3052b9f
local      my-vol
root@myVM:~# docker volume inspect my-vol
[
    {
        "CreatedAt": "2024-08-14T11:02:24Z",
        "Driver": "local",
        "Labels": null,
        "Mountpoint": "/var/lib/docker/volumes/my-vol/_data",
        "Name": "my-vol",
        "Options": null,
        "Scope": "local"
    }
]
root@myVM:~# docker volume rm my-vol
my-vol
root@myVM:~# docker container run --name devtest -dit -v myvol2:/a
pp nginx:latest

Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
e4fff0779e6d: Pull complete
9c4e4e507b08: Pull complete
85664e7b25d6: Pull complete
e9d00ba15cc0: Pull complete
ca3474dd2ca6: Pull complete
472851929ad7: Pull complete
ed60582f2661: Pull complete
Digest: sha256:98f8ec75657d21b924fe4f69b6b9bff2f6550ea48838af479d8
894a852000e40
Status: Downloaded newer image for nginx:latest
3f699ba5865a66f1d2f4abd2e93ab66e21925d6ab26bba8090ea45c7f8a29ce1
root@myVM:~#  docker inspect devtest | grep "Mounts" -A 10
        "Mounts": [
            {
                "Type": "volume",
                "Name": "myvol2",
```

```
                "Type": "volume",
                "Name": "myvol2",
                "Source": "/var/lib/docker/volumes/myvol2/_data",
                "Destination": "/app",
                "Driver": "local",
                "Mode": "z",
                "RW": true,
                "Propagation": ""
            }
root@myVM:~# docker container stop devtest
devtest
root@myVM:~# docker container rm devtest
devtest
root@myVM:~# docker volume rm myvol2
myvol2
root@myVM:~# docker container run --name nginxtest -dit -v nginx-v
ol:/usr/share/nginx/html nginx:latest
80a4943b60dec3ad066495c64243e34e5f42dd214ad834e7a3048cea7d09417d
root@myVM:~# cat > /var/lib/docker/volumes/nginx-vol/_data/index.h
tml <<
EOF
"HELLO FROM DOCKER"
EOF
-bash: syntax error near unexpected token `newline'
EOF: command not found
HELLO FROM DOCKER: command not found
EOF: command not found
root@myVM:~# cat > /var/lib/docker/volumes/nginx-vol/_data/index.h
tml <<EOF
HELLO FROM DOCKER
EOF
root@myVM:~# docker container inspect nginxtest | grep -i ipaddres
s
            "SecondaryIPAddresses": null,
            "IPAddress": "172.17.0.2",
                    "IPAddress": "172.17.0.2",
root@myVM:~# curl 172.17.0.2
HELLO FROM DOCKER
root@myVM:~# docker container stop nginxtest
```

```
HELLO FROM DOCKER
root@myVM:~# docker container stop nginxtest
nginxtest
root@myVM:~# docker container rm nginxtest
nginxtest
root@myVM:~# cat /var/lib/docker/volumes/nginx-vol/_data/index.htm
l
HELLO FROM DOCKER
root@myVM:~# docker volume rm nginx-vol
nginx-vol
root@myVM:~# docker container run --name nginxtest -dit -v nginx-v
ol:/usr/share/nginx/html:ro nginx:latest
fdc966581baefcb23d7e03a2b97f91ea2b10421d2f47eed12a497fdc06eb19aa
root@myVM:~# docker container inspect nginxtest | grep "Mounts" -A
 10
        "Mounts": [
            {
                "Type": "volume",
                "Name": "nginx-vol",
                "Source": "/var/lib/docker/volumes/nginx-vol/_data
",
                "Destination": "/usr/share/nginx/html",
                "Driver": "local",
                "Mode": "ro",
                "RW": false,
                "Propagation": ""
            }
root@myVM:~# docker container exec nginxtest touch /usr/share/ngin
x/html/testfile
touch: cannot touch '/usr/share/nginx/html/testfile': Read-only fi
le system
root@myVM:~# docker container exec nginxtest touch \
/usr/share/nginx/html/testfile
touch: cannot touch '/usr/share/nginx/html/testfile': Read-only fi
le system
root@myVM:~# docker container exec nginxtest touch \ /usr/share/ng
inx/html/testfile
touch: cannot touch ' /usr/share/nginx/html/testfile': No such fil
e or directory
```

```
root@myVM:~# docker container stop nginxtest
nginxtest
root@myVM:~# docker container rm nginxtest
nginxtest
root@myVM:~#  docker volume rm nginx-vol
nginx-vol
root@myVM:~# docker container rm `docker container ls -a -q` -f
"docker container rm" requires at least 1 argument.
See 'docker container rm --help'.

Usage:  docker container rm [OPTIONS] CONTAINER [CONTAINER...]

Remove one or more containers
root@myVM:~#  docker image rm `docker image ls -q` -f
Untagged: nginx:latest
Untagged: nginx@sha256:98f8ec75657d21b924fe4f69b6b9bff2f6550ea4883
8af479d8894a852000e40
Deleted: sha256:900dca2a61f5799aabe662339a940cf444dfd39777648ca6a9
53f82b685997ed
Deleted: sha256:50c0e25eb83913b501a8ea5445575936a6b228d8c98098e802
235f0d80fab3d6
Deleted: sha256:7e38d53ae3e73beedea84c21c8c0b5d08815296c825da3ec1c
33bbd97f7aa349
Deleted: sha256:70ac6af7ddbdb2f6a0141751efbcb194e044c7adc386fd03ca
e6f03dc30d22e2
Deleted: sha256:6d3481c4d68045ed132f620a6e0b058d62f570ebf6b63ab57b
54dcb94c960dac
Deleted: sha256:a290c3a72a0fd2ebbe9a6d930a66e52ae5cbb2622a4af034bf
8356d53689a2c8
Deleted: sha256:a690310e45ce7d870bcf3283c9845c5cffc55e04b2a32d7035
cee6b96bacec87
Deleted: sha256:9853575bc4f955c5892dd64187538a6cd02dba6968eba92018
54876a7a257034
root@myVM:~# docker volume prune -f
Deleted Volumes:
27694a21cdaaa032e3ac49a77248e6d14b419b1cc60b4d80fdea3b41d3052b9f

Total reclaimed space: 0B
root@myVM:~#
```