

Volumes

Setting up the server

```
$ docker run --rm -d --name apache -p 80:80 httpd:2.4
```

```
cd@DESKTOP-VCNQ3D1:~$ docker run --rm -d --name apache -p 80:80 httpd:2.4
Unable to find image 'httpd:2.4' locally
2.4: Pulling from library/httpd
ae13dd578326: Pull complete
fd997b74d81b: Pull complete
248a67212d22: Pull complete
60cf240b9129: Pull complete
b75bd115573c: Pull complete
Digest: sha256:5238710afda67227f805b7563455365588afd4b7d9abcddbdfef76b01463c9df3
Status: Downloaded newer image for httpd:2.4
175ee16ca4367f96e7f4c98fc6689f33c75d64df1ec8f7a8644ae176007cf16e
cd@DESKTOP-VCNQ3D1:~$
```

```
$ curl localhost
```

```
cd@DESKTOP-VCNQ3D1:~$ curl localhost
<html><body><h1>It works!</h1></body></html>
cd@DESKTOP-VCNQ3D1:~$
```

```
$ docker cp index.html apache:/usr/local/apache2/htdocs/
```

```
cd@DESKTOP-VCNQ3D1:~$ docker cp index.html apache:/usr/local/apache2/htdocs/
lsstat /home/cd/index.html: no such file or directory
cd@DESKTOP-VCNQ3D1:~$
```

```
$ docker stop apache
```

```
cd@DESKTOP-VCNQ3D1:~$ docker stop apache
apache
cd@DESKTOP-VCNQ3D1:~$
```

Managing volumes

```
$ docker volume ls
```

```
cd@DESKTOP-VCNQ3D1:~$ docker volume ls
DRIVER      VOLUME NAME
cd@DESKTOP-VCNQ3D1:~$
```

\$ docker volume create myvolume

```
cd@DESKTOP-VCNQ3D1:~$ docker volume ls
DRIVER      VOLUME NAME
local       myvolume
cd@DESKTOP-VCNQ3D1:~$
```

\$ docker volume rm myvolume

```
cd@DESKTOP-VCNQ3D1:~$ docker volume rm myvolume
myvolume
cd@DESKTOP-VCNQ3D1:~$ docker volume
```

Mounting volumes on containers

```
cd@DESKTOP-VCNQ3D1:~$ docker volume create httpd_htdocs
httpd_htdocs
cd@DESKTOP-VCNQ3D1:~$
```

then re-run our docker run command, providing the -v mount flag.

```
cd@DESKTOP-VCNQ3D1:~$ docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
5bc9b72d3754dff37f083ef523a6cac0ede68a01f95906199701cdb06d5bea8b
cd@DESKTOP-VCNQ3D1:~$
```

\$ docker cp index.html apache:/usr/local/apache2/htdocs/

\$

\$ curl localhost

```
cd@DESKTOP-VCNQ3D1:~$ curl localhost
<html><body><h1>It works!</h1></body></html>
cd@DESKTOP-VCNQ3D1:~$
```

\$ docker stop apache

```
cd@DESKTOP-VCNQ3D1:~$ docker stop apache
apache
cd@DESKTOP-VCNQ3D1:~$
```

Mounting host directories on containers

\$ pwd

```
cd@DESKTOP-VCNQ3D1:~$ pwd  
/home/cd  
cd@DESKTOP-VCNQ3D1:~$
```

\$ curl localhost