

## Step 1

`docker pull nginx`

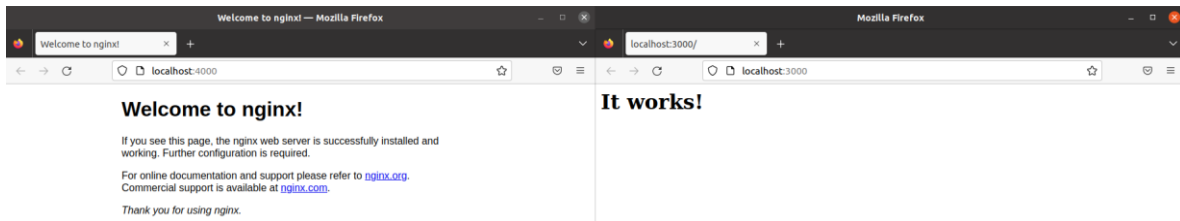
`docker pull httpd`

`docker pull busybox`

## Step 2

`docker run --rm -d -p 4000:80/tcp nginx:latest`

`docker run --rm -d -p 3000:80/tcp httpd:latest`



## Step 3

HTTPD `docker logs --tail 1000 -f 6f4a8157`

```
AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
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[Mon Dec 19 22:08:44.674695 2022] [mpm_event:notice] [pid 1:tid 139684314316096] AH00489: Apache/2.4.54 (Unix) configured -- resuming normal operations
[Mon Dec 19 22:08:44.674943 2022] [core:notice] [pid 1:tid 139684314316096] AH00094: Command line: 'httpd -D FOREGROUND'
172.17.0.1 - - [19/Dec/2022:22:09:16 +0000] "GET / HTTP/1.1" 200 45
172.17.0.1 - - [19/Dec/2022:22:09:16 +0000] "GET /favicon.ico HTTP/1.1" 404 196
```

NGINX `docker logs --tail 1000 -f 9050e3a`

```
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2022/12/19 22:09:08 [notice] 1#1: using the "epoll" event method
2022/12/19 22:09:08 [notice] 1#1: nginx/1.23.3
2022/12/19 22:09:08 [notice] 1#1: built by gcc 10.2.1 202110110 (Debian 10.2.1-6)
2022/12/19 22:09:08 [notice] 1#1: OS: Linux 5.15.0-56-generic
2022/12/19 22:09:08 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2022/12/19 22:09:08 [notice] 1#1: start worker processes
2022/12/19 22:09:08 [notice] 1#1: start worker process 28
2022/12/19 22:09:08 [notice] 1#1: start worker process 29
172.17.0.1 - - [19/Dec/2022:22:09:22 +0000] "GET / HTTP/1.1" 200 615 "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:108.0) Gecko/20100101 Firefox/108.0" "-"
2022/12/19 22:09:22 [error] 29#29: *1 open() "/usr/share/nginx/html/favicon.ico" failed (2: No such file or directory), client: 172.17.0.1, server: localhost, request:
```

## Step 4

`docker run --rm -it busybox:latest` to create both containers

`vi fileA` in container A and `vi fileB` in container B to create the files

`docker cp 81bf:/fileA .` to copy fileA from container to host

`docker cp 11d1:/fileB .` to copy fileB from container to host

`docker cp ./fileA 11d1:/` to copy fileA into container B

```
/ # ls
bin  dev  etc  fileB  home  lib  lib64  proc  root  sys  tmp  usr  var
/ # ls
bin  dev  etc  fileA  fileB  home  lib  lib64  proc  root  sys  tmp  usr  var
/ #
```

`docker volume create trambo-volume` to create a volume

`docker run --rm -it busybox:latest -v trambo-volume:/data` two times to create two containers with 'trambo-volume' mounted at /data

In container A

`cd /data`

`vi fileExample`

In container B

```
/ # ls data
/ # ls data
fileExample
/ #
```