Exercise3_Readme

模块3作业：

- 构建本地镜像
- 编写 Dockerfile 将模块二作业编写的 httpserver 容器化
- 将镜像推送至 docker 官方镜像仓库
- 通过 docker 命令本地启动 httpserver
- 通过 nsenter 进入容器查看 IP 配置

完成过程：

1. 编写 Dockerfile 将模块二作业编写的 httpserver 容器化

```
1 docker build -t rjdocker000/http_server_test:v1 .
2 docker images
```

```
root@host0:~/exercise/week3# docker images
REPOSITORY                      TAG        IMAGE ID       CREATED             SIZE
rjdocker000/http_server_test    v1         9ae95f923770   About a minute ago  868MB
<none>                          <none>     4b3c47763775   8 minutes ago       856MB
nginx                           latest     51086ed63d8c   11 days ago         142MB
ubuntu                          latest     216c552ea5ba   11 days ago         77.8MB
hello-world                     latest     feb5d9fea6a5   12 months ago       13.3kB
centos                          latest     5d0da3dc9764   13 months ago       231MB
```

2. 将镜像推送至 docker 官方镜像仓库

```
1 docker login
2 docker push rjdocker000/http_server_test:v1
```

3. 通过 docker 命令本地启动 httpserver

```
1 docker run --name http_server_test -d -p 80:80 rjdocker000/http_server_test:v1
```

```
hello visitor
==Details of the http request header:==
Accept-Encoding=[gzip, deflate]
Accept-Language=[zh-CN, zh;q=0.9, en;q=0.8, en-GB;q=0.7, en-US;q=0.6]
Connection=[keep-alive]
Upgrade-Insecure-Requests=[1]
User-Agent=[Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0.0 Safari/537.36 Edg/106.0.1370.42]
Accept=[text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9]
```

4. 通过 nsenter 进入容器查看 IP 配置

```
1 docker inspect 7e7807bad591 |grep -i pid
```

```
root@host0:~/exercise/week3# nsenter -t 357600  -n ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
37: eth0@if38: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:ac:11:00:03 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 172.17.0.3/16 brd 172.17.255.255 scope global eth0
       valid_lft forever preferred_lft forever
```