第6章课程辅助资料

为了便于大家更好地理解课程中的知识,学院教研组配套整理了课程所需的

辅助资料、供大家参考使用。

1. 指令包

```
# 启动 Docker
ls
- expect to see 2 files: Dockerfile, content.txt
cat content.txt
====
<div>
<h3>My Book List</h3>
<a href="#">Die Hard</a>
  <a href="#">Secret</a>
  <a href="#">Html 101</a>
  <a href="#">Kubernetes 202</a>
  <a href="#">AWS 303</a>
</div>
=====
cat Dockerfile
====
FROM alpine:3.17
ARG whoami
ENV db user=none
WORKDIR /var/www/localhost/htdocs
RUN apk --update add apache2
RUN rm -rf /var/cache/apk/*
RUN echo "<h3>I'm ${whoami}, and I'm building my first Docker Image 1<h3>" >>
index.html
RUN echo "<h3>I'm ${whoami}, and I'm building my first Docker Image 2<h3>" >>
index.html
RUN echo "<h3>I'm ${whoami}, and I'm building my first Docker Image 3<h3>" >>
index.html
COPY ./content.txt ./
RUN cat ./content.txt >> index.html
ENTRYPOINT ["httpd","-D","FOREGROUND"]
====
```

展示 docker container 的硬盘空间是会消失的 docker build -t apache-image-001. docker images docker run -d --name apache-c001 -p 8091:80 apache-image-001 docker container ls docker exec -it apache-c001 /bin/sh / # ls / # cat index.html / # echo "I was born in 2001." >> index.html / # cat index.html / # exit docker container ls http://localhost:8091

docker stop apache-c001 docker rm apache-c001 docker container ls -a docker run -d --name apache-c001 -p 8091:80 apache-image-001 docker container ls http://localhost:8091

使用自己建立的 Docker Volume 保存首页资讯 docker volume ls docker volume create v001 docker volume inspect v001 - expect to see: Linux folder path docker run -d --name apache-c002 -p 8092:80 -v v001:/var/www/localhost/htdocs apacheimage-001 docker container ls http://localhost:8092

docker container Is docker exec -it apache-c002 /bin/sh / # Is / # cat index.html / # echo "I was born in 2002." >> index.html / # cat index.html / # exit

http://localhost:8092

docker container Is docker stop apache-c002 docker rm apache-c002 docker container Is docker run -d --name apache-c002 -p 8092:80 -v v001:/var/www/localhost/htdocs apacheimage-001 docker container Is http://localhost:8092

使用自动建立的 Docker Volume 保存首页资讯 docker run -d --name apache-c003 -p 8093:80 -v /var/www/localhost/htdocs apacheimage-001 docker container ls docker volume ls docker volume inspect [volume_id]

docker exec -it apache-c003 /bin/sh
/ # ls
/ # cat index.html
/ # echo "I was born in 2003." >> index.html
/ # cat index.html
/ # exit
docker container ls
http://localhost:8093

docker stop apache-c003 docker rm apache-c003 docker container ls docker volume ls docker run -d --name apache-c003 -p 8093:80 -v [volume_id]:/var/www/localhost/htdocs apache-image-001 docker container ls http://localhost:8093

強制清理三指令 docker stop \$(docker container ls -a -q) docker rm \$(docker container ls -a -q) docker rmi -f \$(docker images -q)

清理 docker volume ls docker volume remove v001

```
docker volume remove [vol_id]
docker volume ls
# 使用 Host 本身目录作为来源硬盘空间
```

```
mkdir my-home-page
touch my-home-page/index.html
=====
<html><body><h1>lt works!</h1></body></html>
<h3>I'm , and I'm building my first Docker Image 1<h3>
<h3>I'm, and I'm building my first Docker Image 2<h3>
<h3>I'm, and I'm building my first Docker Image 3<h3>
<div>
<h3>My Language List</h3>
<a href="#">Chinese</a>
  <a href="#">English</a>
</div>
=====
cat my-home-page/index.html
pwd
docker run -d --name apache-c004 -p 8094:80 -v /Users/stsai/docker-deepblue-dockerfile-
volume/my-home-page:/var/www/localhost/htdocs apache-image-001
docker container ls
docker container inspect apache-c004
http://localhost:8094
=====
```

```
<html><body><h1>lt works!</h1></body></html><
<h3>l'm , and l'm building my first Docker Image 1<h3>
<h3>l'm , and l'm building my first Docker Image 2<h3>
<h3>l'm , and l'm building my first Docker Image 3<h3>
<div>
<h3>My Language List</h3>
<a href="#">Chinese</a>
<a href="#">English</a>
<a href="#">English</a>
<a href="#">German</a>
```

http://localhost:8094

docker stop apache-c004 docker rm apache-c004 docker container ls

docker run -d --name apache-c004 -p 8094:80 -v /Users/stsai/docker-deepblue-dockerfilevolume/my-home-page:/var/www/localhost/htdocs apache-image-001 docker container ls

完成!