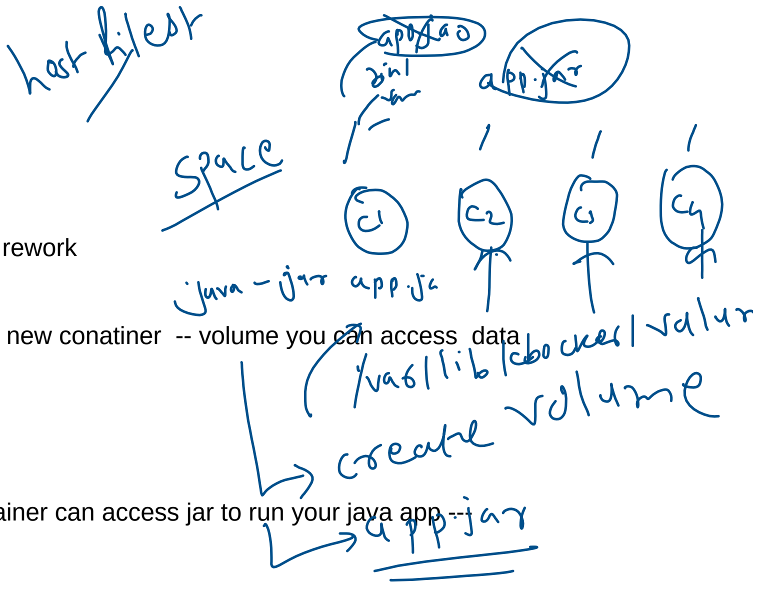
Lab - Volumes

12:33 PM



Why to use volumes inside images
--- configs are important
--- if added import config/src code inside container
-- container stopped or some removed container
-- your imp file or config will get wipe out and your do rework
----
As volume mounted on (Host file system)
Your config or data is always safe -- when you create new conatiner -- volume you can access data again
----
COPY /app.jar
10 container --- sb

Place this jar inside volume -- from volume your container can access jar to run your java app ---

```
Docker volume ls
```

```
Docker volume create thbs-vol
```

To verify volume has create -

```
Cd /var/lib/docker/volumes/thbs-vol/_data
```
Ls to see created volumnes

```
Mv index.html _data
```

```
Touch index.html
Gedit index.html
```
Hello from THBS Shared volume

```
docker run -d --name=ngnix1 --mount source=thbs-vol,destination=/usr/share/nginx/html -p 8082:80
nginx
```

http://localhost:8082

```
docker run -d --name=ngnix2 --mount source=thbs-vol,destination=/usr/share/nginx/html -p 8083:80
nginx
```

To remove volume

```
docker volume prune thbs-vol
```

We have create volume as well mounted inside container

```
docker run -d \
  --name devtest \
  -v myvol2:/app \
  nginx:latest
```

```
Docker volume ls
Docker exec -it cid /bin/bash
```

How to use volume inside docker image / while docker file

```
#base image for our image -
FROM openjdk:8-jdk-alpine
# run container out of this build -
# ARG JAR_FILE=target/*.jar

COPY target/*.jar app.jar

RUN mkdir /myvol
RUN echo "hello world" > /myvol/greeting.txt

# its generating mount ponint inside conatiner and will generete volumn for conatiner with random char
VOLUME [ "/myvol" ]

#start running you sb app when container will get started
ENTRYPOINT ["java","-jar","/app.jar"]

# docker build -t sshelake25/thbs_aws_dev:spring-app
```