

Docker

Basic commands

List containers

`docker ps`
Exited containers:
`docker ps -a -f status=exited`
Copy files: `docker cp` (from stopped containers also)

List images

`docker images`
`docker images -f dangling=true`
(to remove dangling: `docker images purge`)

Remove

Remove image `docker rmi`
Remove container `docker rm`
(remove all exited containers: `docker rm $(docker ps -a -f status=exited -q)`)

Run

Run an image in a new container in interactive mode
`docker run -name $NAME -it $IMAGE`
(rm previous container with `docker rm` if name not available)
Option: `-rm` remove the container on exit
Environment variables: `-env MYVAR2=foo`
Restart an exited container
`docker start $ID`
Attach to it
`docker attach $ID`
Bind volumes `-v HOST:CONTAINER` → can not reverse mount? (access files in container from outside)

Duplicate image

Tag an image with a new name
`docker tag source:tag target:tag`

Commit

Commit changes in a container to an image

```
sudo docker commit -m $MESSAGE $CONTAINER $IMAGE:$TAG
```

Push changes to repository

(dockerhub: docker.io)

```
docker login $HOST
```

```
docker push $IMAGE:$TAG
```

Save

Save an image to a compressed archive

```
docker save $IMAGE:$TAG | gzip > $FILE.tgz
```

Clean

Remove image: docker rmi

```
docker images prune
```

```
Clean everything: docker system prune
```