

Docker image manipulations

Run detached container - Debian OS

```
docker -dit
debian
```

Stop container

```
docker stop
[CONTAINER
CID]
```

Show docker images

```
docker images
```

Show docker image info in YAML

```
docker inspect
[CONTAINER
CID]
```

Get docker image

```
docker pull
[IMAGE NAME]
```

Get how image was constructed

```
docker history
[IMAGE NAME]
```

Show full image hash

```
docker images -
-no-trunc
```

Create image tag

```
docker tag
SOURCE-
[:TAG]
TARGET[:TAG]
```

pause a container

```
docker pause
[CONTAINER
CID]
```

unpause a paused container

```
docker unpause
[CONTAINER
CID]
```

send a kill signal to a running container

```
docker kill
[CONTAINER
CID]
```

block until a running container stops

```
docker wait
[CONTAINER
CID]
```

connect to a running container

```
docker attach
[CONTAINER
CID]
```

Docker image manipulations (cont)

rename an existing container

```
docker rename
container-name
new-container-
name
```

rename an existing container

```
docker run --rm
image-name
```

Dockerfile Manipulations

Simple Dockerfile example

```
FROM debian :stable LABEL maintainer="E N T E R _ Y O U R _ N A M E _ H E R E" RUN
i n / b a s h " ]
```

Simple Dockerfile example

Docker Information Commands

Docker Information Commands

```
docker
info
```

To list only running containers

```
docker ps
```

To list all containers

```
docker ps
-a
```

print the object information about a container

```
docker
logs
container-
id
```

print all running processes in a container

```
docker
top
container-
id
```

print the live resource usage of any container

```
docker
stats
container-
id
```

Docker Information Commands (cont)

print the changes on files and directories in a filesystem

```
docker
diff
contai-
ner-id
```

Docker Volume commands

create a new Docker volume

```
docker
volume
create
volume-
name
```

list all Docker volumes

```
docker
volume list
```

print more information about a Docker volume

```
docker
volume
inspect
volume-
name
```

remove a Docker volume from your system

```
docker
volume rm
volume-
name
```

Docker networking

list all the networks

```
list all the
networks
```

print information about one or more networks

```
docker network
inspect network-
name
```

connect a container to a network

```
docker network
connect network-
name container-
name
```

disconnect a container from a network

```
docker network
disconnect
network-name
container-name
```

remove one or more networks

```
docker network
rm network-
name
```

