



## Container information

Main directory for everything  
`/var/lib/docker`

## Search/download images

List the local images  
`docker images`

Search the images  
`docker search <image>`  
`docker search ubuntu`  
`docker search ansible`

Download an image  
`docker pull <image>`  
`docker pull ubuntu/latest`  
`docker pull rabbitmq`

## Start/stop container commands

Start a container  
`docker start <container>`  
`docker start app1`

Stop a container  
`docker stop <container>`  
`docker stop app1`

Kill all running containers  
`docker kill $(docker ps -q)`

## Creation/destruction commands

Create a container  
`docker run -ti --name <container> <image>`  
`docker run -ti --name app1 ubuntu:latest`  
`docker run -ti --name web1 centos:latest`

Create a container and run in the background  
`docker run -d --name <container> <image>`

Create a container and run command  
`docker run -ti --name <container> <image> <command>`  
`docker run -ti --name app1 ubuntu test.sh`

Create a container, run command, then destroy container  
`docker run -rm -ti --name <container> <image> <command>`  
`docker run -rm -ti --name app1 ubuntu test.sh`

Create an image from a running container  
`docker commit -n <commit message> -a <author> <container> <username>/<image>:<tag>`  
`docker commit -n "Saving copy" -a "Jane Doe" app1 jdoe/ubuntu:app1`

Run a container with a particular command  
`docker run -dit <image> <command>`  
`docker run -dit centos bash`

Delete all stopped containers  
`docker rm $(docker ps -q -f "status=exited")`

Delete all dangling containers  
`docker rmi $(docker image -q -f "dangling=true")`

## Listing commands

List running containers  
`docker ps`

List all containers  
`docker ps -a`

List running container names  
`docker ps -q`

List all container names  
`docker ps -a -q`

## Networking

Map port 80 from container to 5000 on host  
`docker run -p 80:5000 <image>`  
`docker run -p 80:5000 centos`

## Console commands

Attach to a console for a container  
`docker attach <container>`  
`docker attach app1`

## Misc commands

Show the log files  
`docker logs -ft <container>`

Run a command in a container  
`docker exec -ti <container> <command>`  
`docker exec -ti app1 command.sh`

Show container information  
`docker inspect <container>`  
`docker inspect c1723`

Show IP addresses of a container  
`docker inspect -f "{{ NetworkSettings.IPAddress }}" <container>`  
`docker inspect -f "{{ NetworkSettings.IPAddress }}" c1723`

List images on remote host  
`docker -H <ip> images`  
`docker -H 1.2.3.4 images`

Run command on remote container  
`docker -H <ip> exec -it <image> <command>`  
`docker -H 1.2.3.4 exec -it centos sleep 5000`