Run a new container

Start a new Container from an Image
docker run IMAGE

...and assign it a name
docker run --name CONTAINER IMAGE

...and map a port
docker run -p HOSTPORT:-CONTAINERPORT IMAGE

...and map all ports
docker run -P IMAGE

...and start container in background
docker run -d IMAGE

...and assign it a hostname
docker run --hostname HOSTNAME IMAGE

...and add a dns entry
docker run --add-host HOSTNAME:IP IMAGE

...and map a local directory into the container
docker run -v HOSTDIR:TARGETDIR IMAGE

...but change the entrypoint
docker run -it --entrypoint EXECUTABLE IMAGE

Manage containers

Show running containers
docker ps

Show all containers
docker ps -a

Delete a container

Manage containers (cont)

docker rm CONTAINER

Delete a running container
docker rm -f CONTAINER

Delete stopped containers
docker container prune

Stop a running container
docker stop CONTAINER

Start a stopped container
docker start CONTAINER

Copy from a container to the host
docker cp CONTAINER:SOURCE TARGET

Copy from the host to a container
docker cp TARGET CONTAINER:SOURCE

Start a shell inside a running container
docker exec -it CONTAINER EXECUTABLE

Rename a container
docker rename OLD_NAME NEW_NAME

Create an image out of container
docker commit CONTAINER

Manage Images

Download an image
docker pull IMAGE[:TAG]

Upload an image to a repository
docker push IMAGE

Delete an image
docker rmi IMAGE

Show a list of all Images
docker images

Delete dangling images
docker image prune

Delete all unused images
docker image prune -a

Build an image from a Dockerfile
docker build DIRECTORY

Tag an image
docker tag IMAGE NEWIMAGE

Build and tag an image from a Dockerfile
docker build -t IMAGE DIRECTORY

Save an image to .tar file
docker save IMAGE > FILE

Load an image from a .tar file
docker load -i TARFILE

Info & Stats

Show the logs of a container
docker logs CONTAINER

Show stats of running containers
docker stats

Show processes of container
docker top CONTAINER

Show installed docker version
docker version

Get detailed info about an object
docker inspect NAME

Show all modified files in container
docker diff CONTAINER

Show mapped ports of a container
docker port CONTAINER