







Docker

This is a quick reference cheat sheet for <u>Docker</u>. And you can find the most common Docker commands here.

Getting started

Getting started

Create and run a container in background

- \$ docker run -d -p 80:80 docker/getting-started
 - -d Run the container in detached mode
 - -p 80:80 Map port 80 to port 80 in the container

docker/getting-started-The image to use

Create and run a container in foreground

- \$ docker run -it -p 8001:8080 --name my-nginx nginx
 - -it Interactive bash mode
 - -p 8001:8080 Map port 8001 to port 8080 in the container
 - --name my-nginx-Specify a name

nginx - The image to use

General commands

docker ps List running containers

docker ps -a List all containers

docker ps -s

List running containers

(with CPU / memory)

docker images	List all images
docker exec -it <container> bash</container>	Connecting to container
docker logs <container></container>	Shows container's console log
docker stop <container></container>	Stop a container
docker restart <container></container>	Restart a container
docker rm <container></container>	Remove a container
docker port <container></container>	Shows container's port mapping
docker top <container></container>	List processes
docker kill <container></container>	Kill a container
Parameter < container > can be container id or name	

Containers

	Starting & Stopping
docker start nginx-server	Starting
docker stop nginx-server	Stopping
docker restart nginx-server	Restarting
docker pause nginx-server	Pausing
docker unpause nginx-server	Unpausing
docker wait nginx-server	Blocking a Container
docker kill nginx-server	Sending a SIGKILL
docker attach nginx-server	Connecting to an Existing Container

	momation
docker ps	List running containers
docker ps -a	List all containers
docker logs nginx-server	Container Logs

docker inspect nginx-server	Inspecting Containers	
docker events nginx-server	Containers Events	
docker port nginx-server	Public Ports	
docker top nginx-server	Running Processes	
docker stats nginx-server	Container Resource Usage	
docker diff nginx-server	Lists the changes made to a container.	
-i,interactive -t,ttyname NAME -p,publish 5000:5000expose 5432 -P,publish-alllink container:alias	<pre># attach stdout/err # attach stdin (interactive) # pseudo-tty # name your image # port map (host:container) # expose a port to containers # publish all ports # linking # mount (absolute paths needed)</pre>	
	Example	
\$ docker createname my_re	edisexpose 6379 redis:3.0.2	
Renaming a Container docker rename my-nginx nginx-server		
Removing a Container		
docker rm nginx-server		
Updating a Container		
docker updatecpu-shares 512 -m 300M nginx-server		

Images

	Manipulating
docker images	Listing images
docker rmi nginx	Removing an image
docker load < ubuntu.tar.gz	Loading a tarred repository
docker loadinput ubuntu.tar	Loading a tarred repository
docker save busybox > ubuntu.tar	Save an image to a tar archive
docker history	Showing the history of an image
docker commit nginx	Save a container as an image.
docker tag nginx eon01/nginx	Tagging an image
docker push eon01/nginx	Pushing an image

Building Images

```
$ docker build .
```

\$ docker build github.com/creack/docker-firefox

\$ docker build - < Dockerfile</pre>

\$ docker build - < context.tar.gz</pre>

\$ docker build -t eon/nginx-server .

\$ docker build -f myOtherDockerfile .

\$ curl example.com/remote/Dockerfile | docker build -f - .

Networking

Manipulating

Removing a network

docker network rm MyOverlayNetwork

Listing networks

docker network 1s

```
Getting information about a network

docker network inspect MyOverlayNetwork

Connecting a running container to a network

docker network connect MyOverlayNetwork nginx

Connecting a container to a network when it starts

docker run -it -d --network=MyOverlayNetwork nginx

Disconnecting a container from a network

docker network disconnect MyOverlayNetwork nginx

Creating Networks
```

```
docker network create -d overlay MyOverlayNetwork

docker network create -d overlay \
    --subnet=192.168.0.0/16 \
    --subnet=192.170.0.0/16 \
    --gateway=192.168.0.100 \
    --gateway=192.170.0.100 \
    --ip-range=192.168.1.0/24 \
    --aux-address="my-router=192.168.1.5" \
    --aux-address="my-switch=192.168.1.6" \
    --aux-address="my-printer=192.170.1.5" \
    --aux-address="my-nas=192.170.1.6" \
    MyOverlayNetwork
```

Miscellaneous

Docker Hub

docker search search_word

Search docker hub for images.

docker null user/image

Downloads an image from docker hub

```
aconor parr accitimage
docker login
                                                            Authenticate to docker hub
docker push user/image
                                                        Uploads an image to docker hub.
                                                                     Registry commands
Login to a Registry
$ docker login
$ docker login localhost:8080
Logout from a Registry
$ docker logout
$ docker logout localhost:8080
Searching an Image
$ docker search nginx
$ docker search nginx --stars=3 --no-trunc busybox
Pulling an Image
$ docker pull nginx
$ docker pull eon01/nginx localhost:5000/myadmin/nginx
Pushing an Image
$ docker push eon01/nginx
$ docker push eon01/nginx localhost:5000/myadmin/nginx
                                                                          Batch clean
docker stop -f $(docker ps -a -q)
                                                               Stopping all containers
docker rm -f $(docker ps -a -q)
                                                               Removing all containers
```

Removing all images

Volumes

Check volumes

\$ docker volume ls

docker rmi -f \$(docker images -q)

Cleanup unused volumes

\$ docker volume prune

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