











List all containers



Docker cheatsheet

This is a quick reference cheat sheet for **Docker**. 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 List running 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

Docker Containers

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

List running containers

Inspecting Containers

List all containers

Container Logs

```
Containers Events
                                                                                                  Public Ports
                                                                                            Running Processes
                                                                                      Container Resource Usage
                                                                            Lists the changes made to a container.
docker create [options] IMAGE
                                                  Example
 docker create --name my_redis --expose 6379 redis:3.0.2
Renaming a Container
docker rename my-nginx my-nginx
Removing a Container
docker rm my-nginx
Updating a Container
docker update --cpu-shares 512 -m 300M my-nginx
```

Docker Images

```
Listing images
                                                                                               Removing an image
                                                                                        Loading a tarred repository
                                                                                        Loading a tarred repository
                                                                                      Save an image to a tar archive
                                                                                    Showing the history of an image
                                                                                      Save a container as an image.
                                                                                                Tagging an image
                                                                                                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/my-nginx .
$ docker build -f myOtherDockerfile .
$ curl example.com/remote/Dockerfile | docker build -f - .
```

Docker Networking

	Manipulating
Removing a network	
docker network rm MyOverlayNetwork	
Listing networks	
docker network ls	
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
                                                                                        Creating Networks
docker network create -d overlay MyOverlayNetwork
docker network create -d bridge MyBridgeNetwork
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
```

Clean Up

```
Cleans up dangling images, containers, volumes, and networks (ie, not associated with a container)

docker system prune

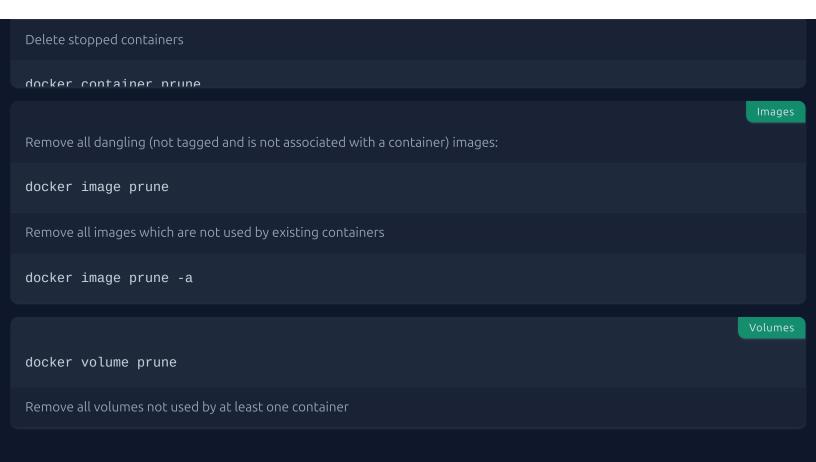
Additionally, remove any stopped containers and all unused images (not just dangling images)

docker system prune -a

Containers

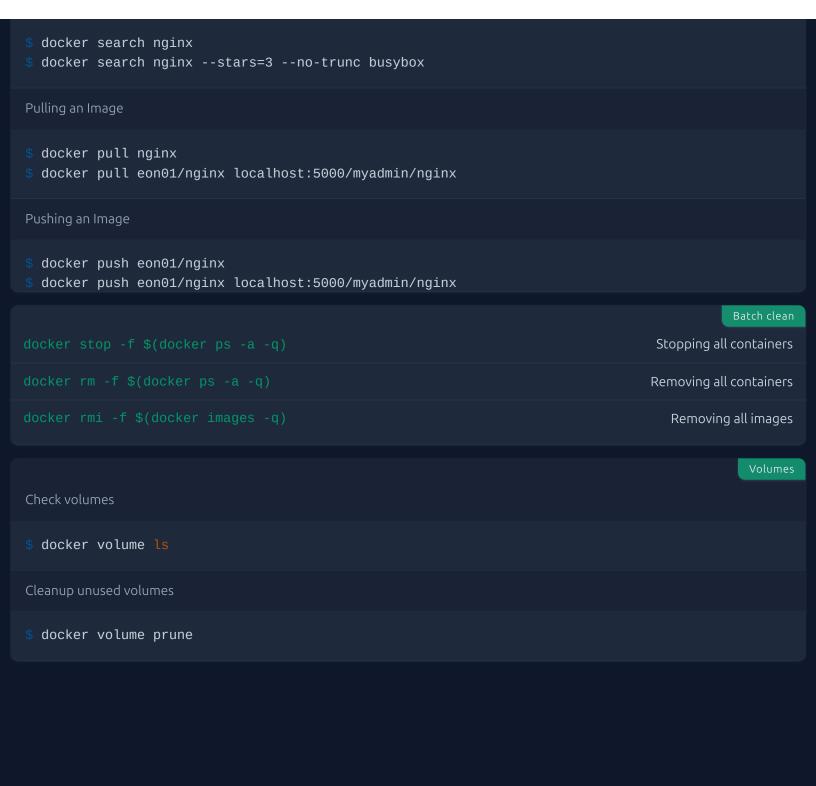
Stop all running containers

docker stop $(docker ps -a -q)
```



Miscellaneous

	Docker Hub
docker search search_word	Search docker hub for images.
docker pull user/image	Downloads an image from docker hub.
docker login	Authenticate to docker hub
docker push user/image	Uploads an image to docker hub.
	Registry commands
Login to a Registry	
<pre>\$ docker login \$ docker login localhost:8080</pre>	
Logout from a Registry	
<pre>\$ docker logout \$ docker logout localhost:8080</pre>	
Searching an Image	





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