


Docker Commands Sheet

Sheet-1

 Cheatsheet for Docker CLI			
Run a new Container	Manage Containers	Manage Images	Info & Stats
<p>Start a new Container from an Image</p> <pre>docker run IMAGE docker run nginx</pre> <p>...and assign it a name</p> <pre>docker run --name CONTAINER IMAGE docker run --name web nginx</pre> <p>...and map a port</p> <pre>docker run -p HOSTPORT:CONTAINERPORT IMAGE docker run -p 8080:80 nginx</pre> <p>...and map all ports</p> <pre>docker run -P IMAGE docker run -P nginx</pre> <p>...and start container in background</p> <pre>docker run -d IMAGE docker run -d nginx</pre> <p>...and assign it a hostname</p> <pre>docker run --hostname HOSTNAME IMAGE docker run --hostname srv nginx</pre> <p>...and add a dns entry</p> <pre>docker run --add-host HOSTNAME:IP IMAGE</pre> <p>...and map a local directory into the container</p> <pre>docker run -v HOSTDIR:TARGETDIR IMAGE docker run -v ~/.usr/share/nginx/html nginx</pre> <p>...but change the entrypoint</p> <pre>docker run -it --entrypoint EXECUTABLE IMAGE docker run -it --entrypoint bash nginx</pre>	<p>Show a list of running containers</p> <pre>docker ps</pre> <p>Show a list of all containers</p> <pre>docker ps -a</pre> <p>Delete a container</p> <pre>docker rm CONTAINER docker rm web</pre> <p>Delete a running container</p> <pre>docker rm -f CONTAINER docker rm -f web</pre> <p>Delete stopped containers</p> <pre>docker container prune</pre> <p>Stop a running container</p> <pre>docker stop CONTAINER docker stop web</pre> <p>Start a stopped container</p> <pre>docker start CONTAINER docker start web</pre> <p>Copy a file from a container to the host</p> <pre>docker cp CONTAINER:SOURCE TARGET docker cp web:/index.html index.html</pre> <p>Copy a file from the host to a container</p> <pre>docker cp TARGET CONTAINER:SOURCE docker cp index.html web:/index.html</pre> <p>Start a shell inside a running container</p> <pre>docker exec -it CONTAINER EXECUTABLE docker exec -it web bash</pre> <p>Rename a container</p> <pre>docker rename OLD_NAME NEW_NAME docker rename 096 web</pre> <p>Create an image out of container</p> <pre>docker commit CONTAINER docker commit web</pre>	<p>Download an image</p> <pre>docker pull IMAGE[:TAG] docker pull nginx</pre> <p>Upload an image to a repository</p> <pre>docker push IMAGE docker push myimage:1.0</pre> <p>Delete an image</p> <pre>docker rmi IMAGE</pre> <p>Show a list of all Images</p> <pre>docker images</pre> <p>Delete dangling images</p> <pre>docker image prune docker image prune</pre> <p>Delete all unused images</p> <pre>docker image prune -a</pre> <p>Build an image from a Dockerfile</p> <pre>docker build DIRECTORY docker build .</pre> <p>Tag an image</p> <pre>docker tag IMAGE NEWIMAGE docker tag ubuntu ubuntu:18.04</pre> <p>Build and tag an image from a Dockerfile</p> <pre>docker build -t IMAGE DIRECTORY docker build -t myimage .</pre> <p>Save an image to tar file</p> <pre>docker save IMAGE > FILE docker save nginx > nginx.tar</pre> <p>Load an image from a tar file</p> <pre>docker load -i TARFILE docker load -i nginx.tar</pre>	<p>Show the logs of a container</p> <pre>docker logs CONTAINER docker logs web</pre> <p>Show stats of running containers</p> <pre>docker stats</pre> <p>Show processes of container</p> <pre>docker top CONTAINER docker top web</pre> <p>Show installed docker version</p> <pre>docker version</pre> <p>Get detailed info about an object</p> <pre>docker inspect NAME docker inspect nginx</pre> <p>Show all modified files in container</p> <pre>docker diff CONTAINER docker diff web</pre> <p>Show mapped ports of a container</p> <pre>docker port CONTAINER docker port web</pre>

Sheet-2



Commands Cheat Sheet

Container Lifecycle

docker create [IMAGE]	create a container without starting it
docker rename [CONTAINER_NAME] [NEW_CONTAINER_NAME]	rename a container
docker run [IMAGE]	create and start a container
docker run --rm [IMAGE]	remove a container after it stops
docker run -td [IMAGE]	start a container and keep it running
docker run -it [IMAGE]	create, start the container, and run a command in it
docker run -it-rm [IMAGE]	create, start the container, and run a command in it; after executing, the container is removed
docker rm [CONTAINER]	delete a container if it isn't running
docker update [CONTAINER]	update the configuration of a container

Networking

docker network ls	list networks
docker network rm [NETWORK]	remove one or more networks
docker network inspect [NETWORK]	show information on one or more networks
docker network connect [NETWORK] [CONTAINER]	connect a container to a network
docker network disconnect [NETWORK] [CONTAINER]	disconnect a container from a network

Image Lifecycle

docker build [URL]	create an image from a Dockerfile
docker build -t [URL]	build an image from a Dockerfile and tags it
docker pull [IMAGE]	pull an image from a registry
docker push [IMAGE]	push an image to a registry
docker import [URL/FILE]	create an image from a tarball
docker commit [CONTAINER] [NEW_IMAGE_NAME]	create an image from a container
docker rmi [IMAGE]	remove an image
docker load [TAR_FILE/STDIN_FILE]	load an image from a tar archive as stdin
docker save [IMAGE] > [TAR_FILE]	save an image to a tar archive stream to stdout with all parent layers, tags, and versions

Start & Stop

docker start [CONTAINER]	start a container
docker stop [CONTAINER]	stop a running container
docker restart [CONTAINER]	stop a running container and start it up again
docker pause [CONTAINER]	pause processes in a running container
docker unpause [CONTAINER]	unpause processes in a container
docker wait [CONTAINER]	block a container until other containers stop
docker kill [CONTAINER]	kill a container by sending SIGKILL to a running container
docker attach [CONTAINER]	attach local standard input, output, and error streams to a running container

Information

docker ps	list running containers
docker ps -a	list running and stopped containers
docker logs [CONTAINER]	list the logs from a running container
docker inspect [OBJECT_NAME/ID]	list low-level information on an object
docker events [CONTAINER]	list real time events from a container
docker port [CONTAINER]	show port (or specific) mapping from a container
docker top [CONTAINER]	show running processes in a container
docker stats [CONTAINER]	show live resource usage statistics of containers
docker diff [CONTAINER]	show changes to files (or directories) on a filesystem
docker images ls	show all locally stored images
docker history [IMAGE]	show history of an image

