Cheat Sheet for Docker Commands

Working with Containers

docker run [image]	Run new container from an image
docker start [container ID]	Start an existing stopped container
docker stop [container ID]	Stop a running container
docker restart [container ID]	Restart a running container
docker rm [container ID]	Remove one or more stopped containers
docker ps	List running containers
docker ps -a	List all containers (running and stopped)
docker exec [option] [container ID] [command]	Run a command inside a running container
docker logs [container ID]	Display the logs of a container

Working with volumes

docker volume create [VOLUME-NAME]	Create a new volume
docker volume ls	List all volumes
docker volume inspect [VOLUME-NAME]	Display detailed info about a volume
docker volume rm [VOLUME-NAME]	Remove a volume
docker volume prune	Remove all unused volumes
docker run -v [Local/volume:/data] [image]	Attach volume to the container

Working with Images

docker build -t [name] .	Build an image from a Dockerfile
docker login	Login to Docker Hub registry
docker pull [image]	Pull an image from a registry
docker push [image]	Push an image to a registry
docker image tag [image-name:tag]	Tag an image with a name & tag
docker rmi [image ID]	Remove one or more images
docker images	List all images on the host
docker search [image]	Search images by name from CLI

Working with Networks

docker network create [NETWORK-NAME]	Create a new network
docker network ls	List all networks
docker network inspect [NETWORK-NAME]	Display detailed info about a network
docker network rm [NETWORK-NAME]	Remove a network
docker network prune	Remove all unused networks
docker run --network [my-network] [image]	Run container in specific network

Working with Docker-compose

docker-compose up	Start the containers defined in the docker-compose.yml
docker-compose down	Stop & remove the containers created before
docker-compose ps	List the containers created with docker-compose up
docker-compose build	Build/rebuild the images from docker-compose.yml file
docker-compose pull	Pull images of services of docker-compose.yml file
docker-compose logs	Display the logs of the services.
docker-compose config	Validate & view configuration of the D-C.yml file
docker-compose -f [docker-compose.yml] up	Specify a particular docker-compose file

Working with Docker-ports

docker run -p [HOST-PORT]:[CONTAINER-PORT] [IMAGE]	Start a container with port mapping
docker run -p [HOST-PORT]:[CONTAINER-PORT] [IMAGE]	Start a container with port mapping with host port
docker port [CONTAINER]	List the ports mapped to the container

Working with Docker-Swarm

docker swarm init	Initializes a new swarm
docker node ls	Lists the nodes in the swarm
docker service ls	Lists the services in the swarm
docker service rm [service name]	Removes a service from the swarm
docker swarm join-token worker	Generates a worker join token
docker swarm join --token [token]	Joins a node to the swarm using the provided token
docker swarm leave	Leaves the swarm
docker service scale [service name]=[replica]	Scale the services with replicas
docker service update --image [my-image] [my-service]	Update the image of running service
docker stack deploy -c [docker-compose.yaml] [my-stack]	Deploys the stack of services from D-C.yml file

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