

Docker Cheat Sheet

Process Management

Show all running docker containers
docker ps

Show all docker containers
docker ps -a

Run a container
docker run <image>:<tag>

Run a container and connect to it
docker run -it <image>:<tag>

Run a container in the background
docker run -d <image>:<tag>

Stop a container
docker stop <container>

Kill a container
docker kill <container>

Volumes & Ports

List volumes
docker volume ls

Create a volume
docker volume create <volume>

Delete a volume
docker volume rm <volume>

Show volume metadata
docker volume inspect <volume>

Delete all volumes not attached to a container
docker volume prune

Mount a local directory to your container
docker run -v <local_dir>:<container_dir> <image>

Copy file or folder from a docker container to host machine
docker cp <container>:<container_dir> <local_dir>

Copy file or folder from local machine onto a container
docker cp <local_dir> <container>:<container_dir>

Map a local port to a docker instance
docker run -d -p 127.0.0.1:<local_port>:<docker_port> <image>

List the ports a docker container is running on
docker port <container>

Docker Compose

Start your docker-compose defined resources in detached mode
docker-compose up -d -f <docker_compose_yaml>

Stop all docker-compose resources
docker-compose stop

Destroy all docker-compose resources
docker-compose down

Show docker-compose processes
docker-compose ps

Show docker-compose logs
docker-compose logs

Show docker-compose resource consumption
docker-compose top

Images/Repository

List available local images
docker images

Search for docker images
docker search <image>

Pull a docker image
docker pull <image>

Build an image with a dockerfile
docker build -t <image>:<tag> <run_directory> -f <dockerfile>

Login to a remote repository
docker login <repository>

Push an image to your remote repository
docker push <image>:<tag>

Remove a local docker image
docker rmi <image>:<tag>

Show metadata for an image
docker inspect <image>

Remove all unused docker images
docker image prune

Troubleshooting

Show the logs of a container
docker logs <container>

Follow/tail the logs of a container
docker logs -f <container>

Show timestamps on docker logs
docker logs -t <container>

Show details/metadata of a container
docker inspect <container>

Show a 'top' view of processes running on a container
docker top <container>

Show a 'top' view of all docker containers
docker stats

Show any files that have changed since startup
docker diff <container>

Connect to an already running container
docker attach <container>

Execute a command on a container
docker exec -it <container_id> /bin/bash

Show docker system wide information
docker system info

Show docker disk space used
docker system df