Docker CLI Commands Cheatsheet

For a full reference go to https://docs.docker.com/engine/reference/commandline/cli/

pull

Download an image from a registry

Ex: `docker pull <image_name>`

build

Build an image from a Dockerfile

Ex: `docker build -t <image_name> .`

rmi

Remove one or more images

Ex: `docker rmi <image_name>`

run

Run a command in a new container

Ex: `docker run --interactive --tty --rm --name <container_name> --publish <host_port>: <container_port> <image_name>`

- `--interactive` -> Keep STDIN open even if not attached
- `--tty` -> Allocate a pseudo-TTY
- `--name` -> Assign a name to the container
- `--publish` -> Publish a container's port(s) to the host
- `--rm` -> Automatically remove the container when it exits

exec

Run a command in a running container

Ex: `docker exec -it <container_name> /bin/bash`

stop

Stop one or more running containers

Ex: `docker stop <container_name>`

start

Start one or more stopped containers

Ex: `docker start <container_name>`

rm

Remove one or more containers

Ex: `docker rm <container_name>`

ps

List containers

Ex: `docker ps`

images

List images

Ex: `docker images`

logs

Fetch the logs of a container

Ex: `docker logs <container_name>`

help

Get help on a command

Ex: `docker help`

attach

Attach local standard input, output, and error streams to a running container

Ex: `docker attach <container_name>`

ps

List containers

Ex: `docker ps`

Ex: `docker ps --all`

- `--all` -> List all containers, including stopped ones

container

Manage containers

Ex: `docker container ls`

- Alias for `docker ps`

Ex: `docker container rm`

- Alias for `docker rm`

kill

Kill one or more running containers

Ex: `docker kill <container_name>`

Docker Compose Cheatsheet

For a full reference go to https://docs.docker.com/compose/reference/

up

Run containers

Ex: `docker compose up --detach`

- `--detach` -> Detached mode: Run containers in the background, print new container names

down

Stop and remove containers, networks, images, and volumes

Ex: `docker compose down`

ps

List containers

Ex: `docker compose ps`

restart

Restart services

Ex: `docker compose restart`

logs

View output from containers

Ex: `docker compose logs`

exec

Run a command in a running container

Ex: `docker compose exec <service_name> /bin/bash`

- `<service_name>` -> Service name defined in `docker-compose.yml`

- `/bin/bash` -> Command to run, in this case a `bash` shell

build

Build or rebuild services

Ex: `docker compose build`

pull

Pull service images

Ex: `docker compose pull`

push

Push service images

Ex: `docker compose push`

start

Start services

Ex: `docker compose start`

stop

Stop services

Ex: `docker compose stop`

help

Get help on a command

Ex: `docker compose help`

- `<command>` -> Command to get help on

port

Print the public port for a port binding

Ex: `docker compose port <service_name> <container_port>`

- `<service_name>` -> Service name defined in `docker compose.yml`
- `<container_port>` -> Container port defined in `docker compose.yml`

scale

Set number of containers for a service

Ex: `docker compose scale <service_name>=<number_of_containers>`

- `<service_name>` -> Service name defined in `docker compose.yml`
- `<number_of_containers>` -> Number of containers to scale

kill

Kill containers

Ex: `docker compose kill <service_name>`

- `<service_name>` -> Service name defined in `docker compose.yml`

pause

Pause services

Ex: `docker compose pause <service_name>`

- `<service_name>` -> Service name defined in `docker compose.yml`

unpause

Unpause services

Ex: `docker compose unpause <service_name>`

- `<service_name>` -> Service name defined in `docker compose.yml`