

## Docker & Docker Compose Command Cheat Sheet

This cheat sheet includes essential commands categorized for quick reference.

### • Docker CLI Commands

#### • Container Management

`docker ps`

- Lists all running containers.

`docker ps -a`

- Lists all containers, including stopped ones.

`docker start <container_id>`

- Starts a stopped container.

`docker stop <container_id>`

- Stops a running container.

`docker rm <container_id>`

- Removes a stopped container.

`docker logs <container_id>`

- Shows logs from a container.

`docker exec -it <container_id> bash`

- Opens an interactive shell inside a running container.

#### • Image Management

`docker images`

- Lists all downloaded Docker images.

`docker rmi <image_id>`

- Removes an image.

`docker build -t myimage .`

- Builds an image from a Dockerfile.

`docker run -d -p 8080:80 myimage`

- Runs a container in detached mode.

`docker tag myimage myrepo/myimage:tag`

- Tags an image for pushing.

`docker push myrepo/myimage:tag`

- Pushes an image to a registry.

`docker pull myrepo/myimage:tag`

- Pulls an image from a registry.

#### • Volumes & Networks

`docker volume ls`

- Lists all Docker volumes.

`docker volume create myvolume`

- Creates a named volume.

`docker volume inspect myvolume`

- Shows volume details.

`docker network ls`

- Lists all Docker networks.

`docker network create mynetwork`

- Creates a custom network.

### • Docker Compose Commands

#### • Service Lifecycle

`docker-compose up`

- Starts all services defined in `docker-compose.yml`.

`docker-compose up -d`

- Starts services in detached mode.

`docker-compose down`

- Stops and removes services, networks, and volumes.