

Docker CLI Cheatsheet

Basic Commands

- docker --version
Show Docker version
- docker info
Show system-wide Docker info
- docker help
Show list of commands

Container Management

- docker run -d -p 8080:80 nginx
Run container in detached mode with port mapping
- docker ps
List running containers
- docker ps -a
List all containers
- docker start <container>
Start a stopped container
- docker stop <container>
Stop a running container
- docker restart <container>
Restart a container
- docker rm <container>
Remove a container
- docker logs <container>
Show container logs
- docker exec -it <container> bash
Run bash in a running container
- docker attach <container>
Attach to a running container
- docker kill <container>
Forcefully stop a container

Image Management

- docker pull <image>
Download an image
- docker images
List local images
- docker rmi <image>
Remove image

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- docker build -t name .
Build image from Dockerfile
- docker tag <image> <repo>:<tag>
Tag an image
- docker push <repo>:<tag>
Push image to registry
- docker save -o image.tar <image>
Export image to tar file
- docker load -i image.tar
Load image from tar file
- docker history <image>
Show image layer history

Volumes

- docker volume create myvol
Create a new volume
- docker volume ls
List volumes
- docker volume inspect myvol
Inspect volume details
- docker volume rm myvol
Remove volume

Networking

- docker network ls
List networks
- docker network create mynet
Create a custom network
- docker network inspect mynet
Inspect network details
- docker network rm mynet
Remove a network
- docker network connect mynet <container>
Connect container to network
- docker network disconnect mynet <container>
Disconnect container from network

System Cleanup

- docker system prune

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Remove unused containers, images, networks

- docker container prune

Remove stopped containers

- docker image prune

Remove unused images

- docker volume prune

Remove unused volumes

- docker builder prune

Remove build cache

Debugging & Inspection

- docker inspect <container/image>

Show low-level info (JSON)

- docker stats

Live container resource usage

- docker top <container>

Show running processes

- docker events

Real-time Docker event stream

Miscellaneous

- docker cp <container>:/path ./local

Copy files from container

- docker diff <container>

Show changes in container filesystem

- docker export <container> > file.tar

Export container as tar

- docker import file.tar

Import tar as image

Docker Compose

- docker compose up -d

Start defined services in detached mode

- docker compose down

Stop and remove services

- docker compose build

Build services

- docker compose logs -f

Follow logs

Docker CLI Cheatsheet

- docker compose ps
Show status of services
- docker compose exec <svc> bash
Exec in a service container
- docker compose restart
Restart services

Context Switching

- docker context ls
List contexts
- docker context use <name>
Switch context
- docker context create
Create a new context