

DevOps Shack
2025

100 Commands

Docker Cheat-Sheet

EBOOK 2025

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Command	Example	Description
<code>docker --version</code>	<code>docker --version</code>	Show Docker version.
<code>docker info</code>	<code>docker info</code>	Display system-wide information.
<code>docker help</code>	<code>docker help</code>	List available Docker commands.
<code>docker system prune</code>	<code>docker system prune</code>	Remove unused Docker objects.
<code>docker system df</code>	<code>docker system df</code>	Show disk usage by Docker objects.
<code>docker inspect <object></code>	<code>docker inspect nginx</code>	Show metadata about an object.
<code>docker version --format '{{.Server.Version}}'</code>	<code>docker version --format '{{.Server.Version}}'</code>	Show server version only.
<code>docker wait <container></code>	<code>docker wait my-container</code>	Wait until a container stops.
<code>docker rename <old-name> <new-name></code>	<code>docker rename old-container new-container</code>	Rename a container.
<code>docker history <image></code>	<code>docker history nginx</code>	Show image layer history.
<code>docker images</code>	<code>docker images</code>	List all images.
<code>docker pull <image></code>	<code>docker pull nginx</code>	Download an image.
<code>docker rmi <image></code>	<code>docker rmi nginx:latest</code>	Remove an image.
<code>docker tag <image> <repository></code>	<code>docker tag nginx:latest my-repo/nginx:v1</code>	Tag an image.
<code>docker build -t <name> <path></code>	<code>docker build -t my-app .</code>	Build an image from a Dockerfile.
<code>docker save <image> -o <file></code>	<code>docker save nginx -o nginx.tar</code>	Export an image to a tar file.
<code>docker load -i <file></code>	<code>docker load -i nginx.tar</code>	Import an image from a tar file.
<code>docker image prune</code>	<code>docker image prune</code>	Remove unused images.
<code>docker image ls --filter <filter></code>	<code>docker image ls --filter dangling=true</code>	List dangling images.
<code>docker image inspect <image></code>	<code>docker image inspect nginx</code>	Inspect an image's metadata.
<code>docker image history <image></code>	<code>docker image history nginx</code>	Show an image's history.
<code>docker image rm <image></code>	<code>docker image rm nginx</code>	Remove a specific image.
<code>docker ps</code>	<code>docker ps</code>	List running containers.
<code>docker ps -a</code>	<code>docker ps -a</code>	List all containers.

<code>docker run <image></code>	<code>docker run nginx</code>	Run a container.
<code>docker run -d <image></code>	<code>docker run -d nginx</code>	Run a container in detached mode.
<code>docker logs <container></code>	<code>docker logs my-container</code>	View logs of a container.
<code>docker exec -it <container> <cmd></code>	<code>docker exec -it my-container /bin/bash</code>	Run a command inside a running container.
<code>docker cp <source> <target></code>	<code>docker cp file.txt my-container:/app/</code>	Copy a file to a container.
<code>docker stop <container></code>	<code>docker stop my-container</code>	Stop a running container.
<code>docker start <container></code>	<code>docker start my-container</code>	Start a stopped container.
<code>docker restart <container></code>	<code>docker restart my-container</code>	Restart a container.
<code>docker rm <container></code>	<code>docker rm my-container</code>	Remove a stopped container.
<code>docker kill <container></code>	<code>docker kill my-container</code>	Forcefully stop a container.
<code>docker diff <container></code>	<code>docker diff my-container</code>	Inspect changes in container's filesystem.
<code>docker inspect <container></code>	<code>docker inspect my-container</code>	Show metadata of a container.
<code>docker port <container></code>	<code>docker port my-container</code>	List container's port mappings.
<code>docker commit <container> <image></code>	<code>docker commit my-container my-new-image</code>	Create an image from a container.
<code>docker stats</code>	<code>docker stats</code>	Monitor resource usage of containers.
<code>docker export <container></code>	<code>docker export my-container > container.tar</code>	Export a container filesystem.
<code>docker attach <container></code>	<code>docker attach my-container</code>	Attach terminal to a running container.
<code>docker wait <container></code>	<code>docker wait my-container</code>	Wait until the container exits.
<code>docker rename <container></code>	<code>docker rename old-container new-container</code>	Rename a container.
<code>docker pause <container></code>	<code>docker pause my-container</code>	Pause a running container.
<code>docker unpause <container></code>	<code>docker unpause my-container</code>	Unpause a paused container.
<code>docker checkpoint create</code>	<code>docker checkpoint create my-container checkpoint1</code>	Create a checkpoint for a container.

docker checkpoint rm	docker checkpoint rm my-container checkpoint1	Remove a checkpoint.
docker top <container>	docker top my-container	Show running processes in a container.
docker events	docker events	Stream real-time Docker events.
docker ps --format <format>	docker ps --format '{{.Names}}'	List container names in a custom format.
docker system events	docker system events	Display system-wide Docker events.
docker volume create <name>	docker volume create my-volume	Create a new volume.
docker volume rm <name>	docker volume rm my-volume	Remove a specific volume.
docker volume prune	docker volume prune	Remove all unused volumes.
docker volume inspect <name>	docker volume inspect my-volume	Inspect details of a volume.
docker volume ls	docker volume ls	List all volumes.
docker run -v <volume>:<path>	docker run -v my-volume:/data nginx	Attach a volume to a container.
docker volume create --label <label>	docker volume create --label env=dev	Create a volume with a label.
docker volume inspect --format <format>	docker volume inspect my-volume --format '{{.Name}}'	Inspect volume with custom format.
docker run --mount	docker run --mount type=volume,source=my-volume,target=/app nginx	Mount a volume.
docker volume ls --filter <filter>	docker volume ls --filter dangling=true	List dangling volumes.
docker network create <name>	docker network create my-network	Create a new network.
docker network inspect <name>	docker network inspect my-network	Inspect details of a network.
docker network rm <name>	docker network rm my-network	Remove a specific network.
docker network ls	docker network ls	List all networks.
docker network connect	docker network connect my-network my-container	Connect a container to a network.
docker network disconnect	docker network disconnect my-network my-container	Disconnect a container from a network.
docker network prune	docker network prune	Remove all unused networks.

<code>docker run --network <name></code>	<code>docker run --network my-network nginx</code>	Attach a container to a specific network.
<code>docker-compose up</code>	<code>docker-compose up</code>	Start services defined in <code>docker-compose.yml</code> .
<code>docker-compose down</code>	<code>docker-compose down</code>	Stop and remove Compose services.
<code>docker-compose logs</code>	<code>docker-compose logs</code>	View logs of Compose services.
<code>docker-compose ps</code>	<code>docker-compose ps</code>	List running Compose containers.
<code>docker-compose restart <service></code>	<code>docker-compose restart nginx</code>	Restart a specific service.
<code>docker-compose build</code>	<code>docker-compose build</code>	Build images for services in <code>docker-compose.yml</code> .
<code>docker-compose exec <service></code>	<code>docker-compose exec nginx /bin/bash</code>	Execute a command in a running service.
<code>docker-compose scale <service>=<count></code>	<code>docker-compose scale nginx=3</code>	Scale a service to the desired number of instances.
<code>docker swarm init</code>	<code>docker swarm init</code>	Initialize a Swarm cluster.
<code>docker swarm join-token <role></code>	<code>docker swarm join-token worker</code>	Display join token for a specific role.
<code>docker node ls</code>	<code>docker node ls</code>	List nodes in the Swarm cluster.
<code>docker service create</code>	<code>docker service create --name nginx nginx</code>	Create a new service in Swarm.
<code>docker service ls</code>	<code>docker service ls</code>	List all services in the Swarm.
<code>docker service scale</code>	<code>docker service scale nginx=5</code>	Scale a service in Swarm.
<code>docker service rm</code>	<code>docker service rm nginx</code>	Remove a service in Swarm.
<code>docker stack deploy</code>	<code>docker stack deploy -c docker-compose.yml mystack</code>	Deploy a stack in Swarm.
<code>docker stack ls</code>	<code>docker stack ls</code>	List all stacks in Swarm.
<code>docker stack rm</code>	<code>docker stack rm mystack</code>	Remove a stack in Swarm.
<code>docker logs <container></code>	<code>docker logs my-container</code>	Show logs of a container.
<code>docker events</code>	<code>docker events</code>	Stream real-time Docker events.
<code>docker top <container></code>	<code>docker top my-container</code>	Show running processes in a container.
<code>docker inspect <object></code>	<code>docker inspect nginx</code>	Inspect details of an object.
<code>docker stats</code>	<code>docker stats</code>	Monitor resource usage of running containers.

docker-compose logs <service>	docker-compose logs nginx	View logs of a specific service in Compose.
docker scan <image>	docker scan nginx	Scan an image for vulnerabilities.
docker inspect <object>	docker inspect my- container	Inspect security settings of an object.
docker service update --auth	docker service update -- auth nginx	Update a service with authentication.
docker run --security- opt <option>	docker run --security-opt no-new-privileges nginx	Run a container with specific security options.