

Docker Commands Cheat Sheet

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Command	Description with Arguments	Example Usage
docker run	Run a command in a new container. Options like -d for detached mode, -name to name the container.	docker run -d -name mycontainer ubuntu
docker ps	List running containers. Options like -a / -all for all containers, -q for quiet mode to list only IDs.	docker ps -a
docker build	Build an image from a Dockerfile. Options like -t to tag the image, -build-arg for build-time variables.	docker build -t myimage .
docker images	List all images on the local machine. Options like -a / -all for all images, -q for quiet mode to list only IDs.	docker images -q
docker rmi	Remove one or more images. Options like -f / -force to force removal.	docker rmi myimage
docker pull	Pull an image or a repository from a registry.	docker pull ubuntu
docker push	Push an image or a repository to a registry.	docker push myusername/myimage
docker exec	Run a command in a running container. Options like -d for detached mode, -i for interactive mode.	docker exec -it mycontainer bash
docker stop	Stop one or more running containers.	docker stop mycontainer
docker start	Start one or more stopped containers.	docker start mycontainer
docker rm	Remove one or more containers. Options like -f / -force to force removal.	docker rm mycontainer
docker inspect	Return low-level information on Docker objects.	docker inspect mycontainer
docker logs	Fetch the logs of a container. Options like -f / -follow to follow log output.	docker logs -f mycontainer
docker cp	Copy files/folders between a container and the local filesystem.	docker cp mycontainer:/file.txt .
docker commit	Create a new image from a container's changes. Options like -m for commit message, -a for author.	docker commit -m "My changes" mycontainer mynewimage
docker login	Log in to a Docker registry. Optionally specify server.	docker login
docker logout	Log out from a Docker registry. Optionally specify server.	docker logout
docker network create	Create a new network. Options like -driver to specify the network driver.	docker network create -driver bridge mynetwork
docker volume create	Create a new volume. Options like -name to name the volume.	docker volume create myvolume
docker volume ls	List all volumes. Options like -filter to filter the output.	docker volume ls
docker tag	Create a tag TARGET-IMAGE that refers to SOURCE-IMAGE.	docker tag myimage myusername/myimage:mytag
docker search	Search the Docker Hub for images. Options like -filter to filter the results.	docker search python
docker pause	Pause all processes within one or more containers.	docker pause mycontainer
docker unpause	Unpause all processes within one or more containers.	docker unpause mycontainer
docker port	List port mappings or a specific mapping for the container.	docker port mycontainer
docker restart	Restart one or more containers. Options like -t to specify the timeout.	docker restart mycontainer

Command	Description with Arguments	Example Usage
docker top	Display the running processes of a container. Optionally use ps options.	docker top mycontainer
docker diff	Inspect changes to files or directories on a container's filesystem.	docker diff mycontainer
docker history	Show the history of an image. Options like -q for quiet mode.	docker history myimage
docker stats	Display a live stream of container(s) resource usage statistics.	docker stats mycontainer
docker system df	Show docker disk usage.	docker system df
docker system prune	Remove unused data. Options like -a / -all to remove all unused images not just dangling ones.	docker system prune
docker save	Save one or more images to a tar archive. Options like -o to specify output file.	docker save -o myimage.tar myimage
docker load	Load an image from a tar archive or STDIN. Options like -i to specify input file.	docker load i myimage.tar
docker export	Export a container's filesystem as a tar archive. Options like -o to specify output file.	docker export -o mycontainer.tar mycontainer
docker import	Import the contents from a tarball to create a filesystem image. Options like -c for changes.	docker import mycontainer.tar
docker compose up	Build and start containers defined in a docker-compose.yml file.	docker compose up
docker compose down	Stop and remove containers, networks, images, and volumes defined in a docker-compose.yml file.	docker compose down
docker service create	Create a new service in a Docker swarm.	docker service create --replicas 3 -p 80:80 nginx
docker service ls	List all services in a Docker swarm.	docker service ls
docker service rm	Remove one or more services.	docker service rm myservice
docker swarm init	Initialize a new swarm.	docker swarm init
docker swarm join	Join a swarm as a worker node.	docker swarm join --token SWMTKN-1-xyz 192.168.99.100:2377
docker swarm leave	Leave the swarm.	docker swarm leave
docker node ls	List nodes in a swarm.	docker node ls
docker node rm	Remove a node from the swarm.	docker node rm mynode
docker stack deploy	Deploy a new stack or update an existing stack.	docker stack deploy -c docker-compose.yml mystack
docker stack rm	Remove one or more stacks.	docker stack rm mystack
docker network ls	List all networks.	docker network ls
docker network rm	Remove one or more networks.	docker network rm mynetwork
docker network inspect	Display detailed information on one or more networks.	docker network inspect mynetwork
docker volume rm	Remove one or more volumes.	docker volume rm myvolume
docker volume inspect	Display detailed information on one or more volumes.	docker volume inspect myvolume