

Basic commands

To display the list of images	<code>docker images</code>
To display the available container	<code>docker ps</code>
To login in to dockerhub	<code>docker login</code>
To find out images in the hub	<code>docker search <image name></code>
To tag image in dockerhub	<code>docker tag <image_name> <dockerhub_username>/<repository_name>:<tag></code>
To push an image to dockerhub	<code>docker push <dockerhub_username>/<repository_name>:<tag></code>
To pull an image from dockerhub	<code>docker pull <image_name>:tag</code>
To build a docker file	<code>docker build <path_to_dockerfile_directory> -t <image_name></code>
To run a container in detached mode	<code>docker run -d <image_name>:tag</code>
To run a container in detached mode and bind it to specific host port	<code>docker run -d -p <host port>:<container port> <image_name>:tag</code>
To stop a container	<code>docker stop <container_name></code>
To remove a container	<code>docker rm <container_name></code>
To check the status of container	<code>systemctl status docker</code>
To start docker	<code>systemctl start docker</code>
To start docker automatically when the system restarts	<code>systemctl enable docker</code>
To use docker without sudo	<code>sudo usermod -aG \$USER</code>
To run docker container in an interactive terminal	<code>docker run -it <image_name> /bin/bash</code>
To exit from a docker interactive terminal	<code>exit</code>
To get container details	<code>docker container inspect <container_name></code>
To show the logs of a container	<code>docker logs <container></code>
To show stats of running containers	<code>docker stats</code>

Docker Compose

To start services in docker compose	<code>docker-compose up</code>
To stop services in docker compose	<code>docker-compose down</code>

Docker volumes

To display all the volumes	<code>docker volume ls</code>
To create a docker volume	<code>docker volume create <volume_name></code>
To delete a docker volume	<code>docker volume rm <volume></code>
To remove all unused docker volumes	<code>docker volume prune</code>
To get volume details	<code>docker volume inspect <volume_name></code>
To attach volume to container	<code>docker run -v <host_path>:<container_path> <image_name></code>

Docker Swarm

Initialise swarm in master node	<code>sudo docker swarm init</code>
Display docker swarm nodes	<code>sudo docker node ls</code>
Create a docker service	<code>sudo docker service create --name <service_name> --replicas <no of replicas needed> --publish hostport:container port <image></code>
Show running services	<code>sudo docker service ls</code>
Remove a service	<code>sudo docker service rm <service_name></code>
Join a swarm	<code>sudo docker swarm join --token <token></code>
Generate a token from master	<code>sudo docker swarm join-token worker</code>
Leave a swarm	<code>sudo docker swarm leave</code>



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