

Basic commands

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| 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

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

Docker volumes

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| 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

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| 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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