

## Docker

<https://docs.docker.com/get-started/>

### Run a new container

docker container run (start a new container from an image)  
docker container run --name app nginx (assign a name for the container)  
docker container run -p 8080:80 nginx (map a port on container)  
docker container run -P nginx (map all the ports)  
docker container run -d nginx (start a container in background)  
docker container run --hostname srv nginx (assign a hostname)  
docker container run --add-host HOSTNAME:IP IMAGE (add a DNS entry)  
docker container run -v ~/usr/share/nginx/html nginx (map a local directory into the container)  
docker container run -ti --entrypoint bash nginx (change the entrypoint)

### Basic Docker Commands

curl -fsSL https://get.docker.com | bash  
docker --version  
systemctl status docker  
docker container run hellow-world  
docker container run -ti hello-world

### Manage Volumes

\$ docker container run -d -p 80:80 --name phpmessage\_container -v  
volumetest:/var/www/html --rm phpmessage  
\$ docker volume inspect teste

### Manage Services

docker service create  
docker service ls  
docker service inspect  
docker service scale  
docker service ps  
docker service logs  
docker service rm

### Manage Swarm

docker swarm init  
docker swarm join  
docker node ls  
docker swarm join-token manager  
docker swarm join-token worker  
docker node inspect  
docker node promote  
docker node demote  
docker swarm leave  
docker swarm leave --force

### Manage Containers

docker container ls - show a list of containers  
docker container ls -a - show a list of all containers  
docker container rm app - delete the container  
docker container rm -f app - delete a running container  
docker container prune - delete stopped containers  
docker container stop app - stop a running container  
docker container start app - start a stopped container  
docker container cp app:/index.html index.html  
Docker Compose

### Docker Compose Commands

docker-compose start (start the services)  
docker-compose stop (stop the services)  
docker-compose ps (list the containers)  
docker-compose up (create and start the containers)  
docker-compose down (stop and remove the resources)

See for more: <https://github.com/cmakkaya>