

Basic Docker Commands

docker search <i>searchterm</i>	Search Docker Hub for images
docker pull <i>user/image</i>	Downloads an image from Docker Hub
docker login	Authenticate to Docker Hub (or other Docker registry)
docker push <i>user/image</i>	Uploads an image to Docker Hub. <i>You must be authenticated to run this command</i>
docker info	Retrieves docker configuration
docker version	Retrieves docker versioning

Image and Container Information

docker ps	List all running containers
docker ps -a	List all container instances, with their ID and status
docker images	Lists all images on the local machine
docker history <user>/<image>	Lists the history of an image
docker logs <container>	Displays the logs from a running container
docker port <container>	Displays the exposed port of a running container
docker diff <container>	Lists the changes made to a container
docker logs [-f] <container>	Read container stdout
docker top <container>	Show running processes
docker inspect <container>	Show container configuration
docker events	Show container events

<container> can be replaced with container **name** or **ID**

Network Commands

docker network ls	List networks
docker network inspect <Network>	Inspect a network
docker network create <Network>	Create a network
docker network rm <Network>	Removes a network
docker network connect <Network> <Container>	Connect a container to the network
docker network connect --ip <IP> <Network> <Container>	Specify the IP address of container interface
docker network disconnect <Network-Name> <Container>	Disconnect container from network

<Network> can be replaced with the network **ID** or **NAME**

Work With Images and Containers

docker run -it <i>user/image</i>	Runs an image, creating a container and changing the terminal to the terminal within the container
docker run -p <hostport>:<containerport> -d <i>user/image</i>	Run an image in detached mode with port forwarding
docker start <container>	Start a container
docker exec <container> [shell command]	Executes a command within a running container, e.g. /bin/bash
docker attach <container>	Changes the command prompt from the host to a running container
docker stop <container>	Stop a container
docker rm -f <container>	Delete a container
docker create <image>: <tag>	Create image
docker rmi <image>	Delete an image
docker tag <user>/<image>:<tag> <user>/<image>:<new tag>	Add a new tag to an image

ctrl+p then ctrl+q Changes the command prompt from the host to a running container

<container> can be replaced with container **name** or **ID**



Misc. Examples

<code>sudo docker commit <i>containerID</i> username/image</code>	Commit from container to an image
<code>docker push username/image</code>	Docker push example (after logging)
<code>docker run -it -v /host/directory:/container/directory [options] <i>image</i> [command]</code>	Mount a host directory in a Docker container
<code>docker cp /host/directory/file.ext <i>container:/container/directory</i></code>	Copy file from host machine to docker container
<code>docker rmi \$(docker images -a -q)</code>	Delete all Docker images
<code>docker rm \$(sudo docker ps -a -q)</code>	Delete all stopped containers
<code>docker rm \$(sudo docker ps -a grep Exit cut -d ' ' -f 1)</code>	Delete all containers in Exit state
<code>docker save <i>image</i> > <i>filename.tar</i></code>	Export image to a file
<code>docker load < <i>filename.tar</i></code>	Load image from file
<code>docker [command] --help</code>	Command help

Options Keywords

<code>-p, --publish</code>	Host to container port mapping
<code>--publish-all</code>	Publish all ports
<code>-d, --detach</code>	Run in background
<code>-e, --env</code>	Set env vars
<code>-v, --volume</code>	Mount files or directories

C

By **angel_ceed**
cheatography.com/angel-ceed/

Published 8th May, 2019.
 Last updated 10th May, 2019.
 Page 2 of 2.

Sponsored by **ApolloPad.com**
 Everyone has a novel in them. Finish Yours!
<https://apollopad.com>