

CLI Cheat Sheet



Docker provides the ability to package and run an application in a loosely isolated environment called a container. The isolation and security allows you to run many containers simultaneously on a given host. Containers are lightweight and contain everything needed to run the application, so you do not need to rely on what is currently installed on the host. You can easily share containers while you work, and be sure that everyone you share with gets the same container that works in the same way.

INSTALLATION

Docker Desktop is available for Mac, Linux and Windows https://docs.docker.com/desktop

View example projects that use Docker https://github.com/docker/awesome-compose

Check out our docs for information on using Docker https://docs.docker.com

IMAGES

Docker images are a lightweight, standalone, executable package of software that includes everything needed to run an application: code, runtime, system tools, system libraries and settings.

Build an Image from a Dockerfile

docker build -t <image_name>

Build an Image from a Dockerfile without the cache

docker build -t <image_name> . -no-cache

List local images

docker images

Delete an Image

docker rmi <image_name>

Remove all unused images

docker image prune

DOCKER HUB

Docker Hub is a service provided by Docker for finding and sharing container images with your team. Learn more and find images at https://hub.docker.com

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Login into Docker
docker login -u <username>

Publish an image to Docker Hub
docker push <username>/<image_name>

Search Hub for an image
docker search <image_name>

Pull an image from a Docker Hub
docker pull <image_name>
```

GENERAL COMMANDS

Start the docker daemon

docker -d

Get help with Docker. Can also use –help on all subcommands docker ––help

docker --neip

Display system-wide information

docker info

CONTAINERS

A container is a runtime instance of a docker image. A container will always run the same, regardless of the infrastructure.

Containers isolate software from its environment and ensure that it works uniformly despite differences for instance between development and staging.

Create and run a container from an image, with a custom name:

docker run --name <container_name> <image_name>

Run a container with and publish a container's port(s) to the host.

docker run -p <host_port>:<container_port> <image_name>

Run a container in the background

docker run -d <image_name>

Start or stop an existing container:

docker start|stop <container name> (or <container-id>)

Remove a stopped container:
docker rm <container name>

Open a shell inside a running container:
docker exec -it <container_name> sh

Fetch and follow the logs of a container: docker logs -f <container name>

To inspect a running container:

docker inspect <container_name> (or <container_id>)

To list currently running containers:

docker ps

List all docker containers (running and stopped):

docker ps --all

View resource usage stats

docker container stats