

AMSA

Docker Commands

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Docker Cheat Sheet Reference

Create/Remove OCI Images

Create Images

Build an Image from a Dockerfile

```
docker build -t <name_you_want_for_the_image> .
```

Build an Image from a Dockerfile without the cache (re-download base images that are already on your pc)

```
docker build -t <name_you_want_for_the_image> . -no-cache
```

List local images of our PC

```
docker images
```

Remove Images

Delete an Image:

```
docker rmi <image_name>
```

Please remove all images that are not currently used by any running containers:

```
docker image prune
```

Upload/Download images to/from DockerHub Registry

Upload

Login into DockerHub on your terminal:

```
docker login -u <username>
```

Publish an image to Docker Hub with your username:

```
docker push <username>/<image_name>
```

Download

Search for an image on DockerHub:

```
docker search <image_name>
```

Download (pull) an image from Docker Hub:

```
docker pull <image_name>
```

Run/Stop/Start a container (basic)

See running containers on the machine:

```
docker ps
```

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

```
docker run --name <container_name> <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>
```

Run a container given an image (advanced)

Map ports of your host to the container:

```
docker run --name <container_name> -p <host_post>:<container_port> <image_name>
```

Mount a volume from host to container:

```
docker run -v <volume-name>:<path-in-container-where-volume-is-mounted> <image-name>
```

Pass environment variables:

```
docker run -e MY_ENV_VAR='whatever' <image_name>
```

Misc. operations

Open a shell inside a running container (in this case our shell is `sh`):

```
docker exec -it <container_identifier> sh
```

Fetch and follow the logs of a container:

```
docker logs -f <container_name>
```

To inspect (see all the metadata) of a running container:

```
docker inspect <container_name> (or <container_id>)
```

View resource usage stats of the containers:

```
docker container stats
```