

# docker Cheat Sheet

## BUILD IMAGE

Build image from Dockerfile

```
docker build .
```

Build image from custom file

```
docker build -f part_4/Dockerfile .
```

Build image with custom context

```
docker build ./part_4
```

Build and tag image

```
docker build -t my_image:version .
```

## MANAGE IMAGES

List images

```
docker image ls
```

Pull image from registry

```
docker image pull image:version
```

Tag an existing image

```
docker tag IMAGE_ID image:version
```

Push image to registry

```
docker image push my_image:version
```

Delete an existing image

```
docker image rm my_image:version
```

Delete an existing image by ID

```
docker image rm IMAGE_ID
```

## RUN CONTAINERS

Run container from image

```
docker container run busybox:latest
```

Name running container

```
docker container run --name NAME  
image:version
```

Set ENV variable for container

```
docker container run --env  
TEST=true image:version
```

Publish port from container to your host

```
docker container run --publish  
3000:3000 image:version
```

Link two containers together

```
docker container run --link other  
image:version
```

Map local folder into container

```
docker container run --volume /  
tmp:/root/app image:version
```

## DOCKERFILE REFERENCE

First line specifies source image

```
FROM image:version
```

Copy local file/folder to image

```
COPY from to
```

Run command in the image

```
RUN command
```

## MANAGE CONTAINERS

List running containers

```
docker container ls
```

List all containers

```
docker container ls -a
```

Stop running container

```
docker container stop NAME
```

Kill running container

```
docker container kill NAME
```

Start existing container

```
docker container start NAME
```

Remove stopped container

```
docker container rm NAME
```

Execute command on running container

```
docker container exec NAME bash
```

Execute command interactively :)

```
docker container exec -it NAME bash
```

## DOCKERFILE REFERENCE

Executable executed when container start

```
ENTRYPOINT "/bin/sh -c"
```

Arguments passed into entrypoint

```
CMD ["date"]
```

First line of Dockerfile

```
EXPOSE 3000/tcp
```