## Cheatography

example to setup the environment and a BaseImage.

Services

## Docker Basics Cheat Sheet by amicheletti via cheatography.com/39488/cs/12295/

Docker Image		Services (cont)	
docker images	See all	To run it you must first start: docker swarm init Then run it giving a name: docker stack deploy -c docker -co mpo se.yml <ap p_n<="" td=""></ap>	
	available		
	images		
docker build -t <na me=""></na>	Create an	ame>	
	image with a		
	pretty name		
	(you must define the Do		
	ckerfile in		
	the folder)		
dockor tog (no mot voorno mot ron ooi ton	This tags an	docker swarm leaveforce	
docker tag <na me=""> userna me/ rep osi tor y:tag</na>	image ready to be sent to a repository	Docker Swarm is available only for version "3"	
		Docker Container	
docker push userna me/ rep osi tor y:tag	Push the image to the remote	docker run <im age=""></im>	Run the image, starting a
			Container
		-d	Run in detached mode (in
	repository		background)
docker search <ke rd="" ywo=""></ke>	Search for	-p 4000:80	Maps the port 80 of the image
	public reposi-		to the host port 4000
	tories	rm	Removes the container when
Docker Images are the base for containers and are similar to .is			exited
<ul> <li>files. They can be for example the image of your app and contain everything needed to run the application.</li> </ul>		docker ps	List the running containers
			(you can check container id)
These images can be local or in repositories (and marked with an tag)		docker ps -l	List all the containers (you can
			check container id)
		docker stop <co ine="" nta="" r_<="" td=""><td>Stop the container</td></co>	Stop the container
To create images, you must create a Dockerfile with some		i d>	
docker commands to specify how that image will be created, for		When you run an image with you are starting a Container, so	

When you run an image with you are starting a Container, so container is the runtime instance of an image, and consists of the image, an execution environment and a standart set of instructions.

Swarm	
docker swarm init	Initialize a swarm and become
	swarm manager
docker swarm join	Join a swarm as worker
docker swarm leaveforce	Leaves the current swarm

With Docker you can increase resource and capacities by creating a swarm, which are simply several machines (virtual or physical) running a Docker and joined to a cluster.

Swarms have the swarm manager, which can issue docker commands normally, and the workers which are only there to provide capacity.

```
Different pieces of the app are called "services" For example, a
service for storing application data in a database, a service for the
front-end, etc.
Services are just "containers in production." A service only runs one
image, but it manages for example what ports it should use and how
many replicas of the container should run.
To define a service, you'll need an docker -co mpo se.yml file.
For example:
version: " 3"
services:
  web:
     image: amiche let ti/ get -st art ed: part1
    deploy:
       replicas: 5
      resources:
         limits:
           cpus: " 0.1 "
           memory: 50M
       restar t_p olicy:
         condition: on-failure
    ports:
       - " 80: 80"
     networks:
       - webnet
networks:
  webnet:
Here you define the image to be loaded, how many replicas, the
resource limits and the restart conditions.
```



## By amicheletti

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