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
 files. They can be for example the image of your app and contain everything needed to run the application. 		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.
```



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