



# From Zero to Docker

Training | 2019.05.16 | Mário Dagot, Jorge Dias

Docker is an open platform for developing, shipping, and running applications. Through the course of this training we will guide you to the most common feature and use cases of docker. Take this as an introduction and an opportunity to dive into the docker world.

### **AGENDA**

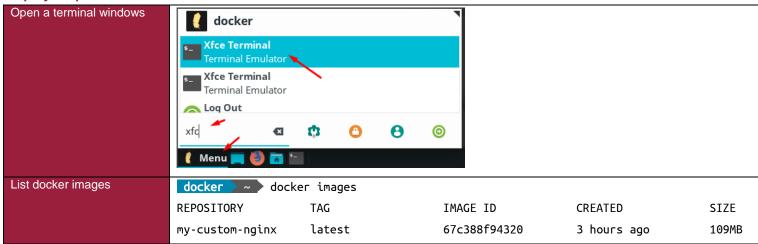
- 01 Install Vim and Terminator and VSCode
- 02 Install Docker CE for Ubuntu
- 03 Hello from Busybox
- 04 Webapp with Docker
- 05a Webapp with Docker My first Dockerfile Nginx
- 05b.1 Webapp with Docker My first Dockerfile Dotnet Core
- 05b.2 Webapp with Docker My first Dockerfile MultiStage Dotnet Core
- 06 Save and Restore and Push to Docker Hub
- 07a Webapp with database integration My first network SpringBoot
- 07b Webapp with database integration My first docker-compose SpringBoot

## 06 - SAVE AND RESTORE AND PUSH TO DOCKER HUB

#### **Objective**

- Save and restore a docker image
- Push a local docker image to docker hub

#### Step by Step



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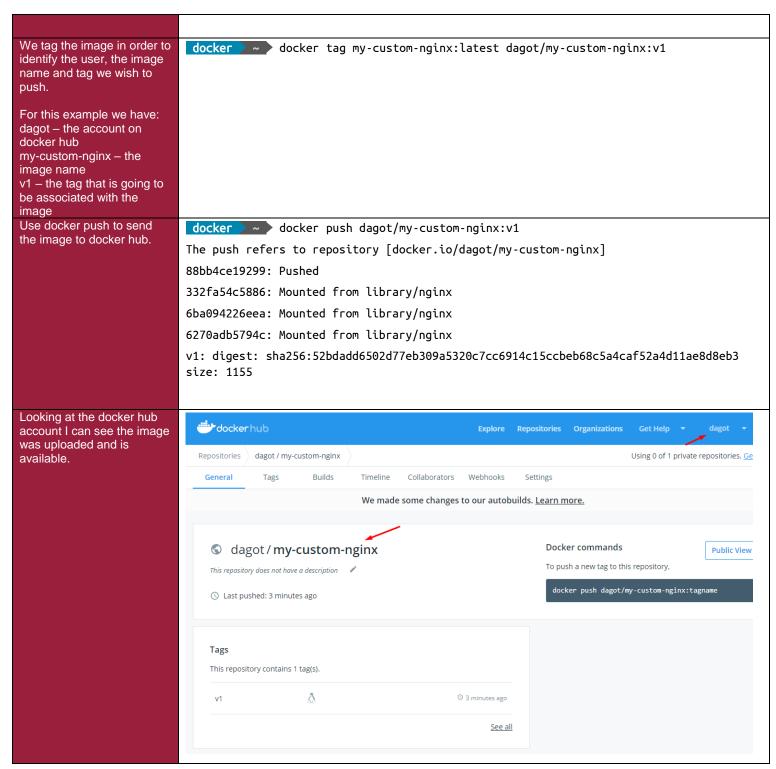




	nginx	latest	53f3fd8007f7	9 hours ago	109MB	
	busybox	latest	af2f74c517aa	5 weeks ago	1.2MB	
Save docker image to file	docker ~ docker save busybox > busybox.tar					
	docker ~ ls -1	lrt				
	total 1432					
	drwxr-xr-x 2 docker	docker 4096 mai	8 08:08 Documents			
	drwxr-xr-x 2 docker	docker 4096 mai	8 08:08 <b>Public</b>			
	drwxr-xr-x 2 docker	docker 4096 mai	8 08:08 <b>Desktop</b>			
	drwxr-xr-x 2 docker	docker 4096 mai	8 08:08 Templates			
	drwxr-xr-x 2 docker	docker 4096 mai	8 08:08 Music			
	drwxr-xr-x 2 docker	docker 4096 mai	8 08:08 <b>Videos</b>			
	drwxr-xr-x 2 docker	docker 4096 mai	8 08:08 Pictures			
	drwxr-xr-x 2 docker	docker 4096 mai	8 08:08 Downloads			
	-rw-rr 1 docker	docker 660 mai	8 09:57 index.html			
	-rw-rw-r 1 docker	docker 57 mai	8 10:02 Dockerfile			
	-rw-rw-r 1 docker	docker 1424896 mai	8 12:39 busybox.ta	г		
Load docker from file to	docker ~ cat busybox.tar   docker import - importedbusybox:mytag					
local docker registry	sha256:f2990efd90b32e94f0a8f92dd25ed85a89e4b4e73f9eb499bd9a01ee107613db					
	docker ~ docker images					
	REPOSITORY	TAG	IMAGE ID	CREATED	SIZE	
	importedbusybox	mytag	f2990efd90b3	3 seconds ago	1.42MB	
	my-custom-nginx	latest	67c388f94320	3 hours ago	109MB	
	nginx	latest	53f3fd8007f7	9 hours ago	109MB	
	busybox	latest	af2f74c517aa	5 weeks ago	1.2MB	
Login to docker hub	docker ~ docker login					
If you don't have an account						
you can create one for free. You just need a valid email address.	have a Docker ID, head over to https://hub.docker.com to create one.					
	Username: dagot					
	Password:					
	WARNING! Your password will be stored unencrypted in /home/docker/.docker/config.json.					
	Configure a credential helper to remove this warning. See					
	https://docs.docker.com/engine/reference/commandline/login/#credentials-store					
	Login Succeeded					
<u> </u>						











#### **Lessons learned**

We learned to save a docker image to a tar format and then restore it.

We also learned how to push a local image to docker hub. This gives us the freedom to share easily all our dockerized application.

#### **Revision History**

Version	on	Date	Author	Description
1.0		2019.05.01	Mário Dagot, Jorge Dias	Initial Version