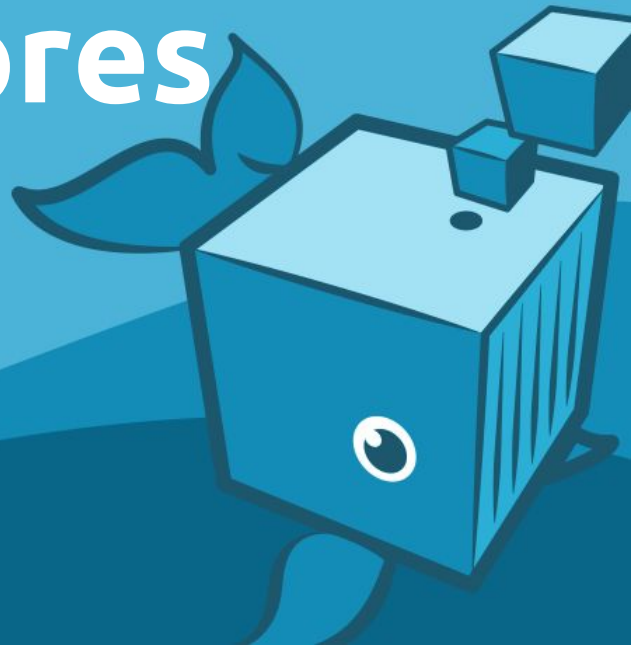
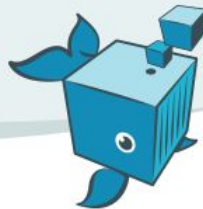


# Docker para desenvolvedores



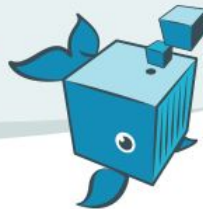


## Cristiano Diedrich

- Graduado em Sistema de Informação
- Atualmente Container Specialist na **Umbler**
- Co-fundador do @mundodocker

## Morvana Bonin

- Graduando em análise e desenvolvimento de sistemas
- Atualmente desenvolvedora na **KingHost**
- Participantes de vários projetos e curiosa por natureza

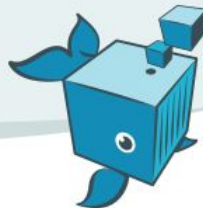


# Agenda

- O que é Docker
- História
- Instalação
- Containers
- Imagens
- Dockerfile
- Compose
- Swarm

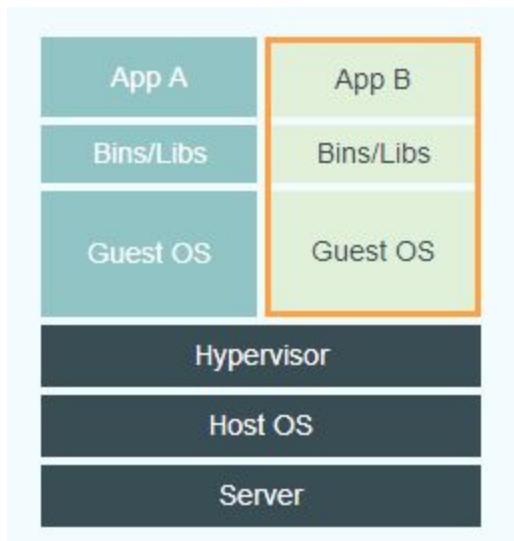


docker

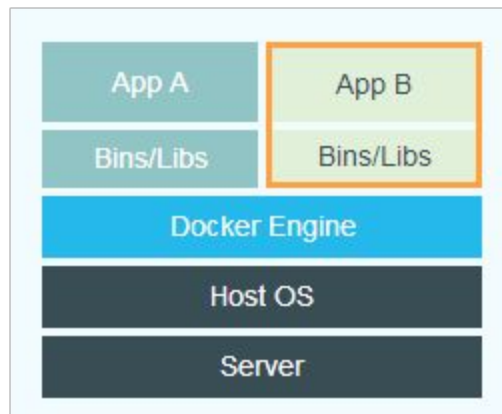


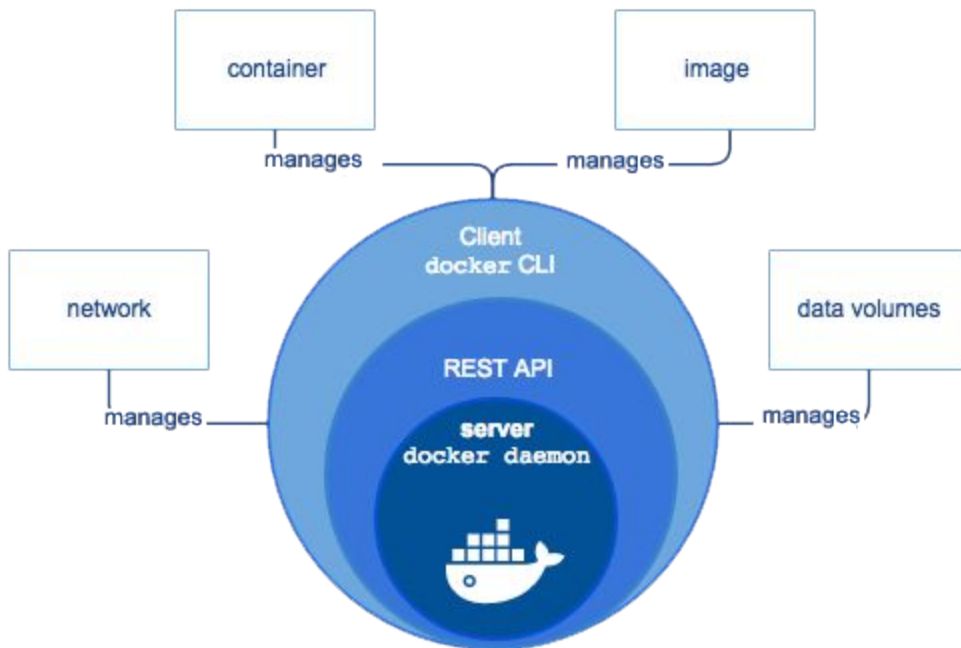


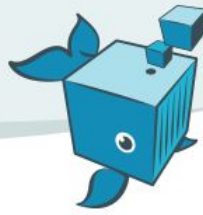
# O que é?



## Docker



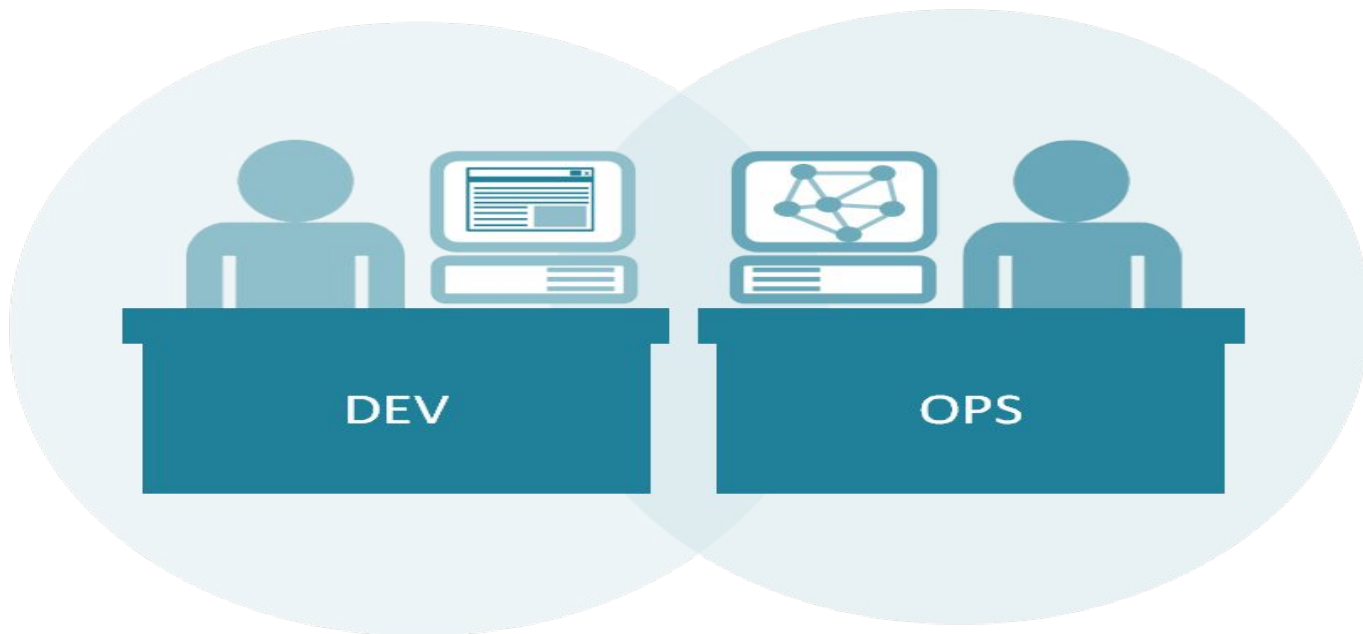
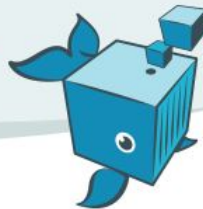


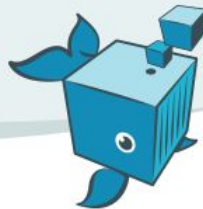


# Porque é importante?



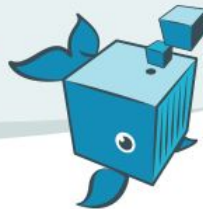






# Porque é legal?

- Portável
- Versionamento
- Reutilizável
- Compartilhamento



- Integração
- Automação
- Dependency Hell no more
- Economia de recursos - \$\$\$



- Desempenho
- Ecossistema crescente



# Em números:

- Google: 3.300 containers por segundo
- 6 bilhões de downloads de imagens em 4 anos.
- Versão 0.1 em 25/03/2013
- Última versão: 17.05.0-ce em 04/05/2017



# De onde veio?



# dotCloud



# De onde veio?

# DOCKER



## Docker

### The Linux container runtime

Docker complements LXC with a high-level API which operates at the process level. It runs unix processes with strong guarantees of isolation and repeatability across servers.

Docker is a great building block for automating distributed systems: large-scale web deployments, database clusters, continuous deployment systems, private PaaS, service-oriented architectures, etc.

1434

The future of Linux Containers

ago	Exit 0	/bin/bash	About an hour
7bf2ed7	fad7c890e7ca7be4	/bin/bash	About an hour
ago	Exit 0	/bin/echo hello worl	About an hour
1c57729e	c5860e37a1bc678	/bin/echo	About an hour
ago	Exit 0	/bin/bash	About an hour
667688d5	fad7c890e7ca7be4	/bin/bash	About an hour
ago	Exit -1	/bin/bash	About an hour
0cd7b00d	c5860e37a1bc678	/bin/echo	About an hour
ago	Exit 0	/bin/echo	About an hour
195e0591	c5860e37a1bc678	/bin/echo	About an hour
ago	Exit -1	/bin/echo	About an hour
1a832a1e	c5860e37a1bc678	/b	About an hour
ago	Exit -1	/b	About an hour
40a49a1a	c5860e37a1bc678	/b	About an hour
ago	Exit 0	/b	About an hour
f318a96d	c5860e37a1bc678	/b	About an hour
ago	Exit -1	/b	About an hour
8c0f9431	c5860e37a1bc678	/b	About an hour
ago	Exit 0	/b	About an hour

Let's get started

Heterogeneous payloads

Any combination of binaries

Any server

Docker can run on any x86\_64

Isolation

Docker isolates processes from

Repeatability

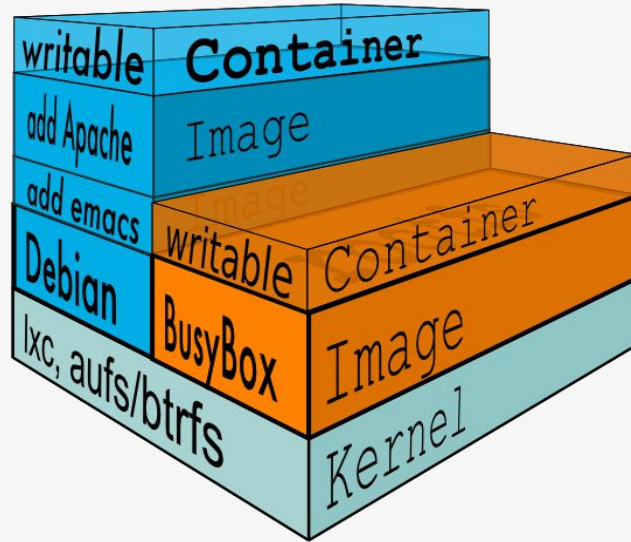
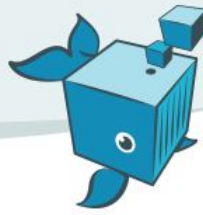
Ensures containers are isolated

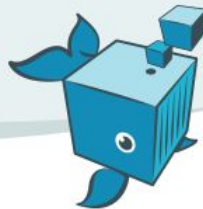


# O que é?

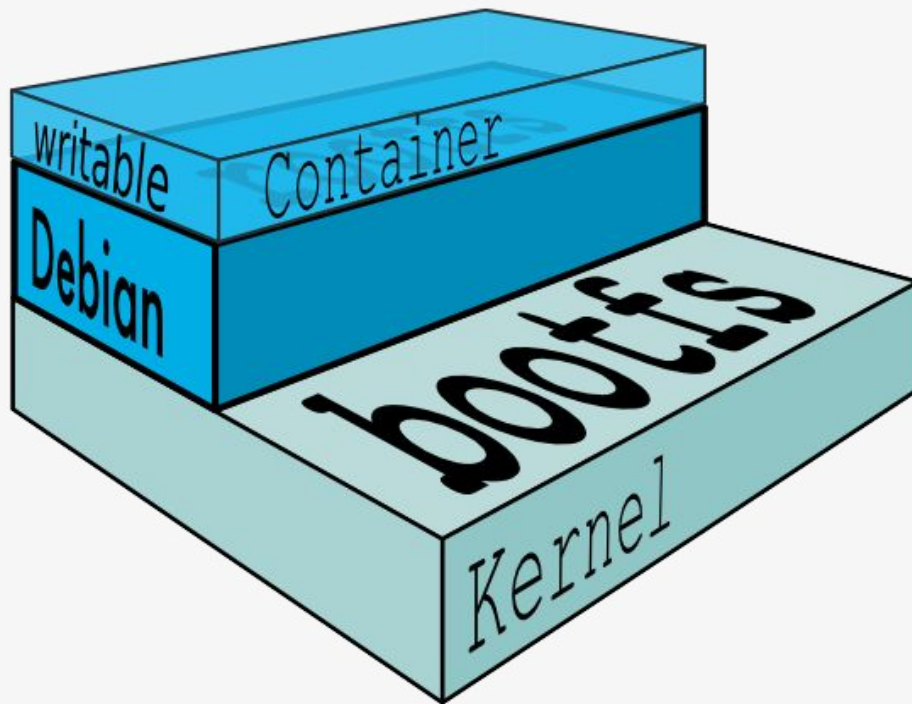


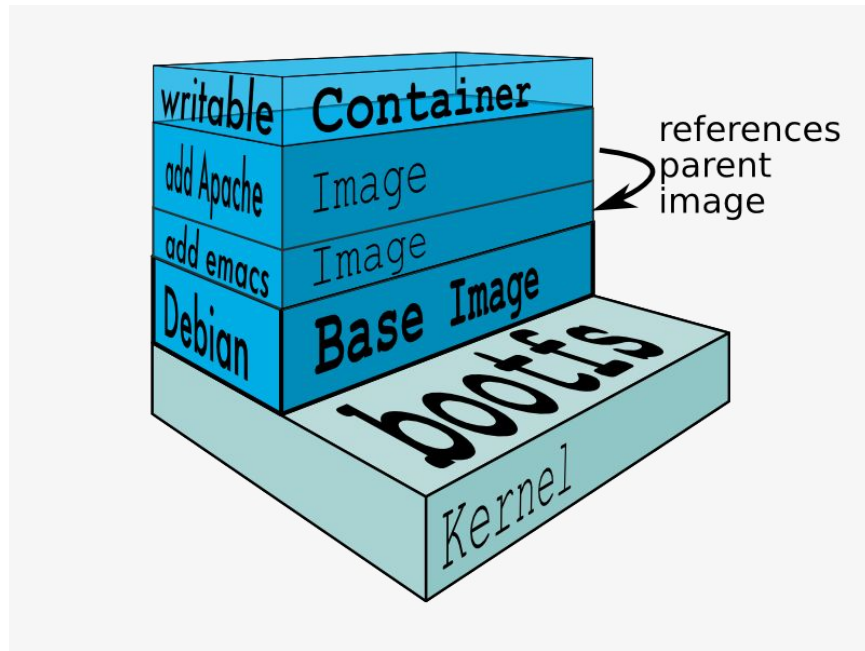
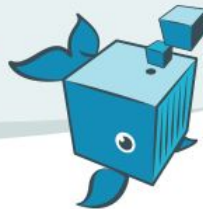






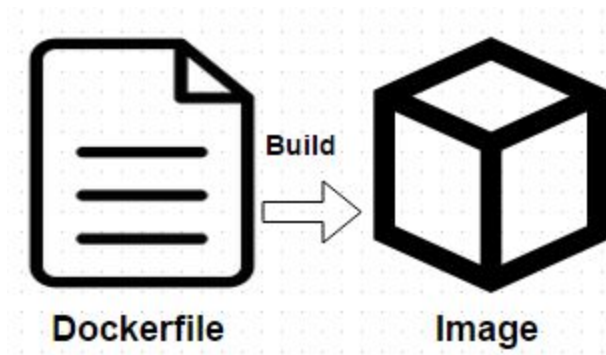
# O que é?

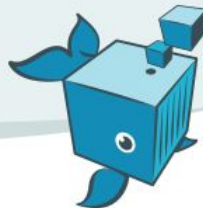






# O que é?





## Dockerfile

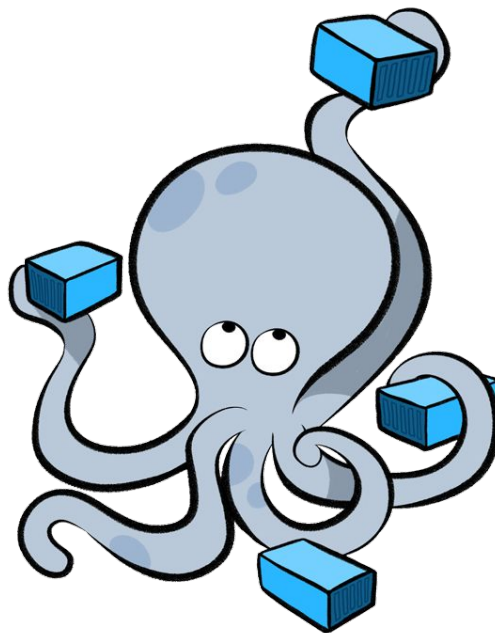
```

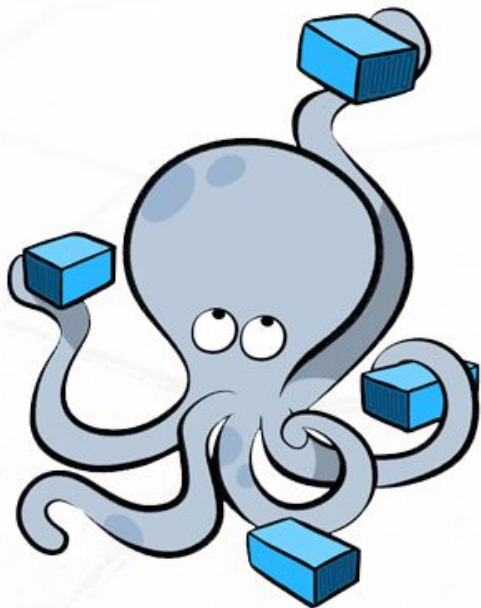
1  FROM dockerfile/ubuntu
2
3  MAINTAINER Abhinav Ajgaonkar <abhinav316@gmail.com>
4
5  # Install Redis
6  RUN \
7      apt-get -y -qq install python redis-server
8
9  # Install Node
10 RUN \
11     cd /opt && \
12     wget http://nodejs.org/dist/v0.10.28/node-v0.10.28-linux-x64.tar.gz && \
13     tar -xzf node-v0.10.28-linux-x64.tar.gz && \
14     mv node-v0.10.28-linux-x64 node && \
15     cd /usr/local/bin && \
16     ln -s /opt/node/bin/* . && \
17     rm -f /opt/node-v0.10.28-linux-x64.tar.gz
18
19 # Set the working directory
20 WORKDIR /src
21
22 CMD ["/bin/bash"]
    
```





# O que é?

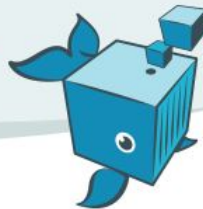




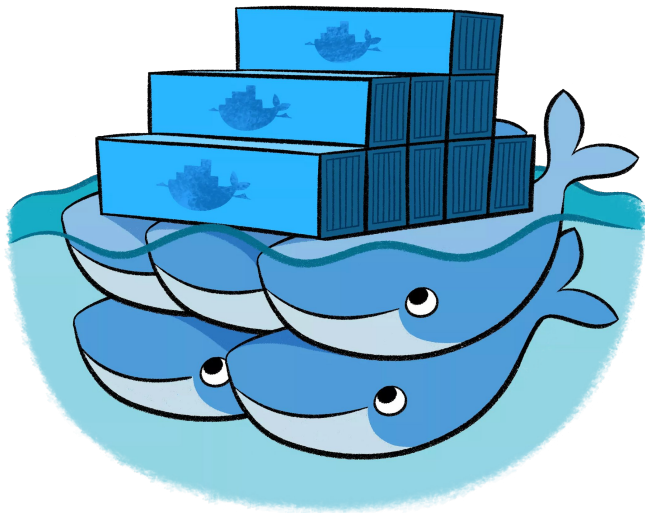
```
php:
  build: php
  ports:
    - "80:80"
    - "443:443"
  volumes:
    - ./php/www:/var/www/html
  links:
    - db
```

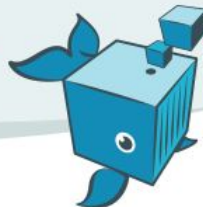
\$ docker-compose up



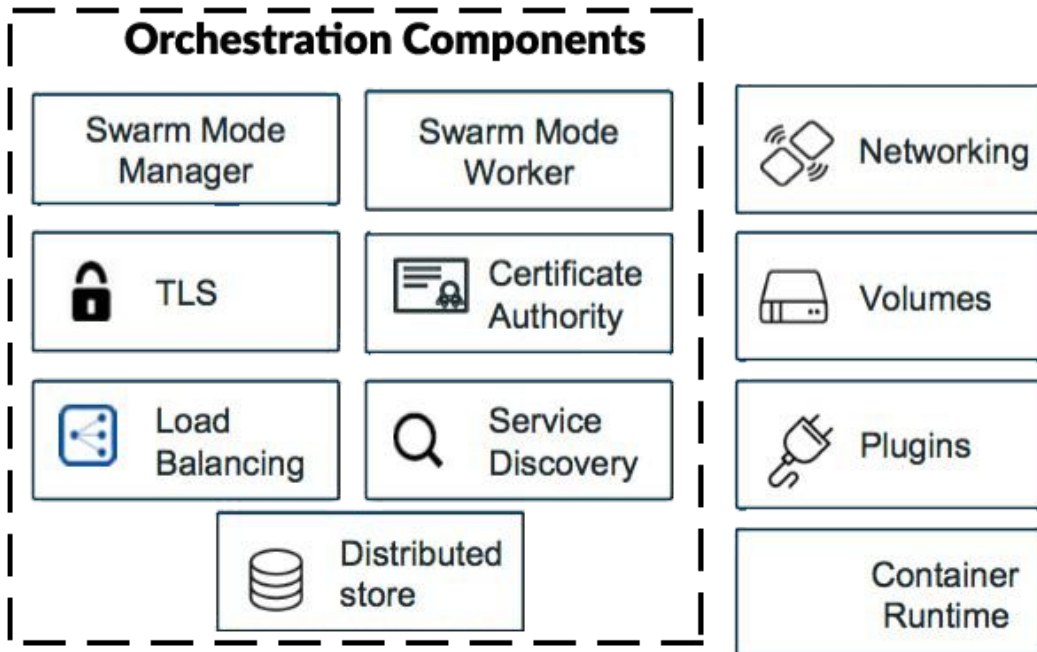


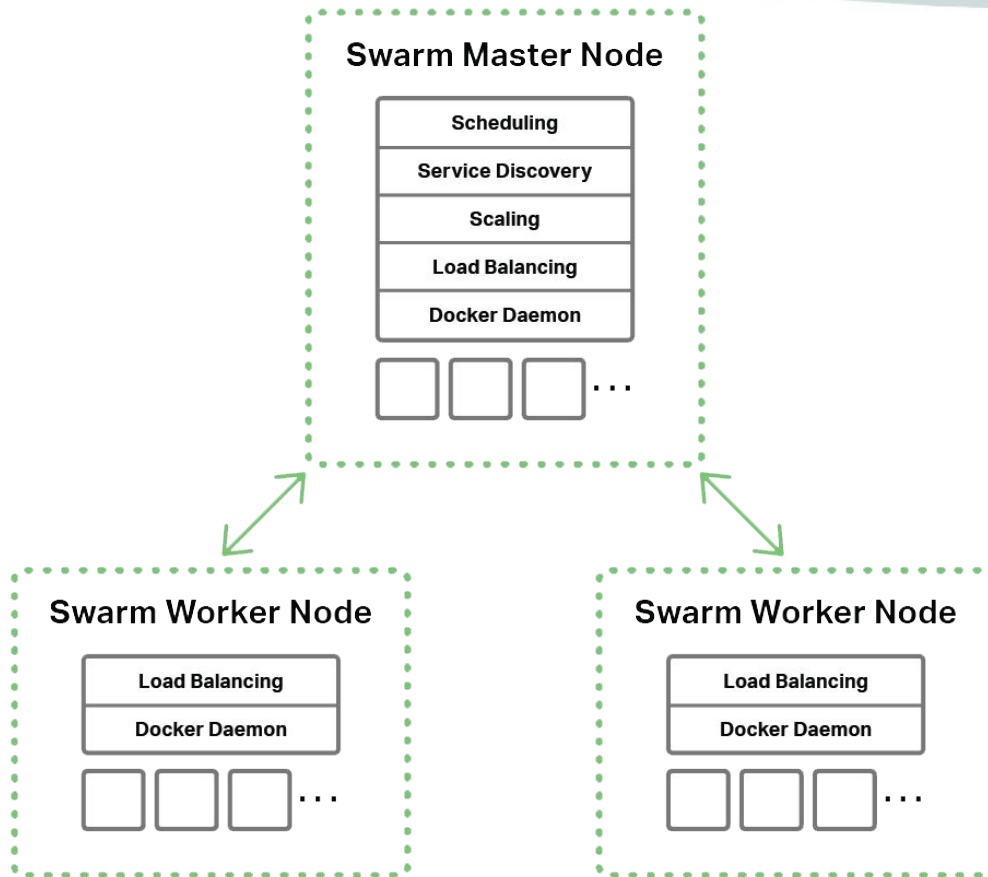
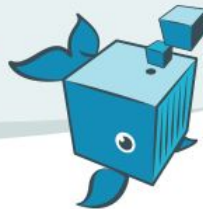
# O que é?





## Docker Engine







# Sobre o curso

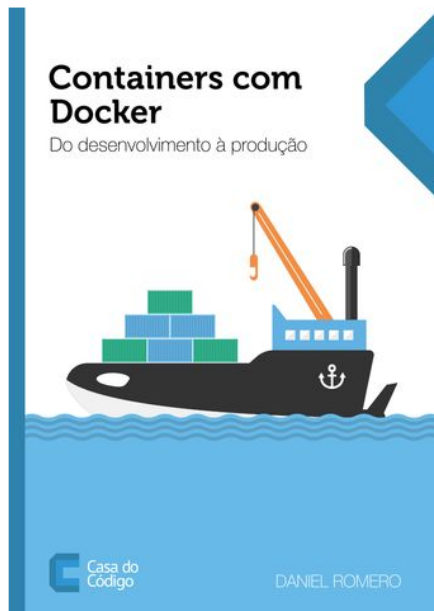
- Comandos e conceitos
- Dockerfile
- Imagens
- Publicando imagens
- Docker Compose



- Criando seu cluster de Swarm
- Criando sua stack
- Volumes
- Rede

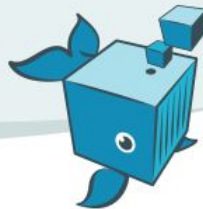


# Referências





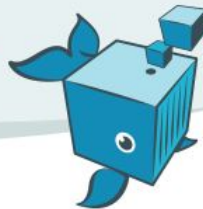
- <https://telegram.me/dockerbr>
- <https://docs.docker.com>
- <http://www.mundodocker.com.br>



# Avalie!

<https://avalie.se/phprs>





# Contatos

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 cristhian@mundodocker.com.br

 @mundodocker

 facebook.com/mundodocker

 <http://www.mundodocker.com.br>