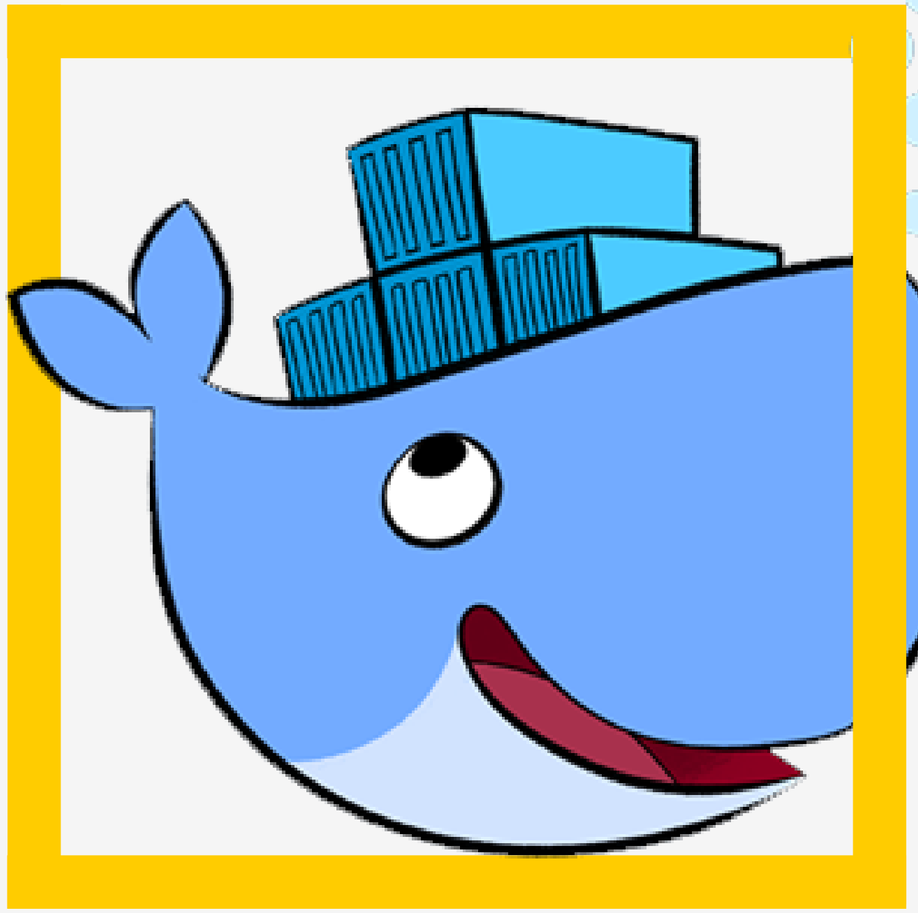


Começando com Docker

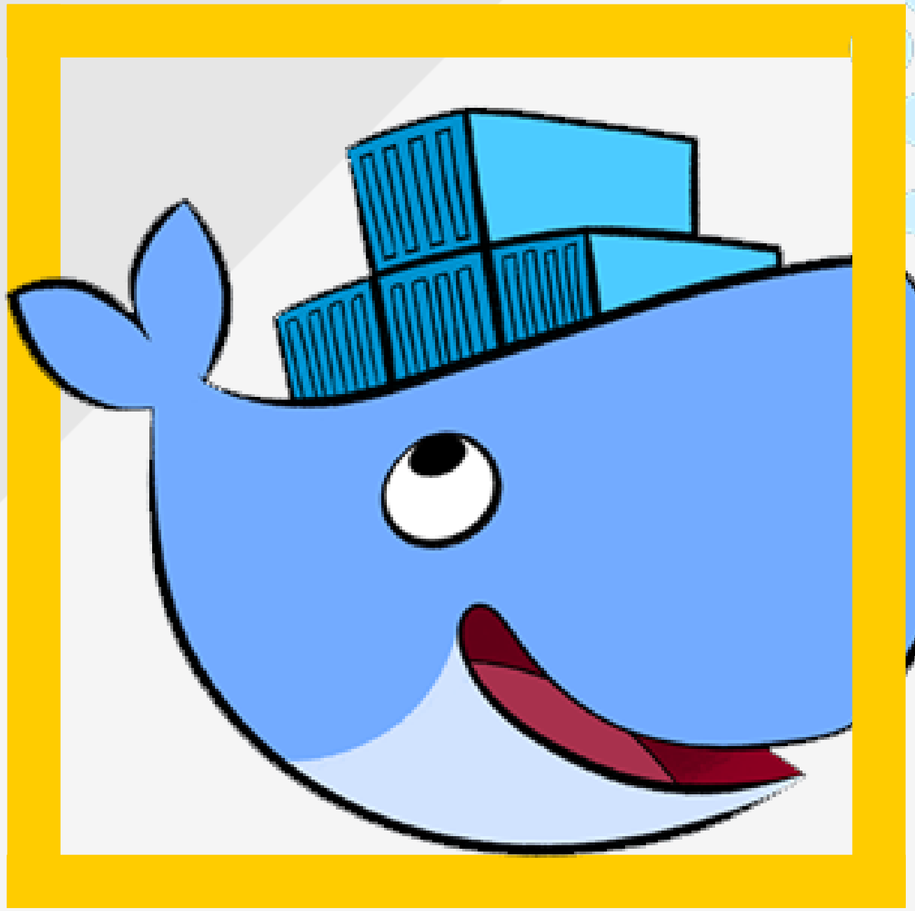
<Diogo Alves>

- Arquiteto de Soluções e Líder na iniciativa DevOps da empresa Cedro

Formação:
- Sistemas de Informação

Pouco mais de 12 anos como:
- SysAdmin apaixonado por Linux
- Desenvolvedor
- Instrutor
- Entusiasta de Segurança da Informação

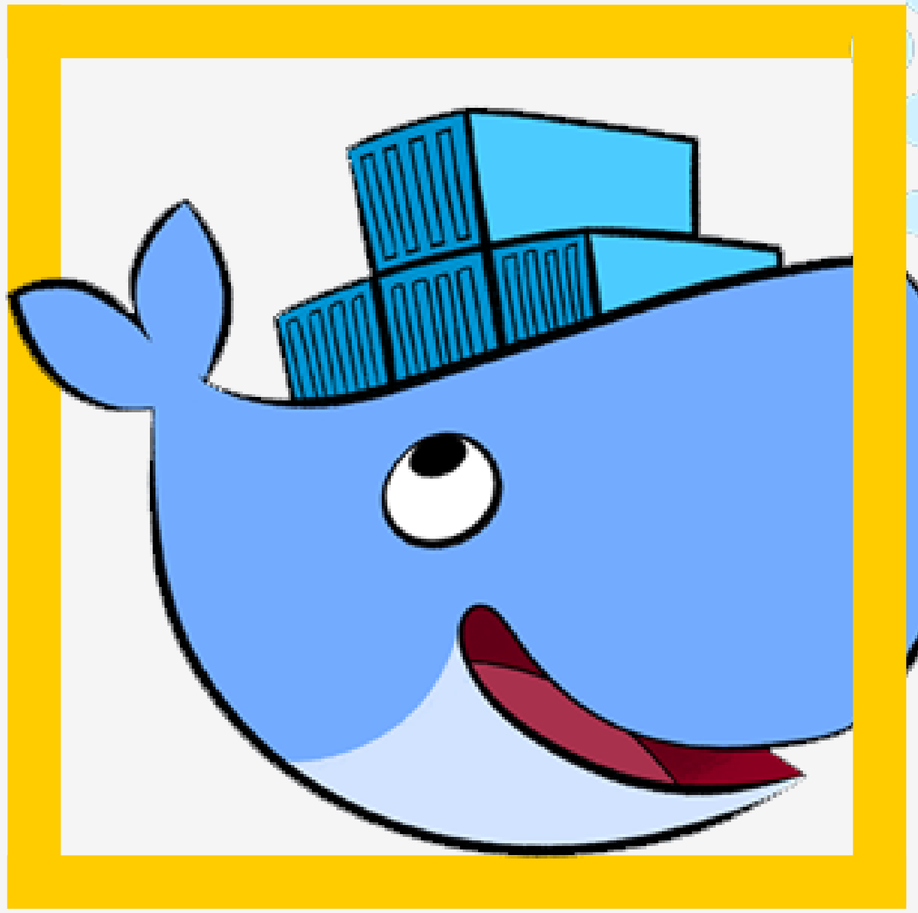
Algumas Certificações:
- CEH – Ethical Hacking
- ISO 27001
- Asterisk Administrator
- AWS



Agenda

- O que é DockerHub?
- Armazenamento no Docker
- Entendendo a rede no Docker
- Gerenciando containers com Docker-compose
- Hand-ons

Começando com
Docker



O que é DockerHub?

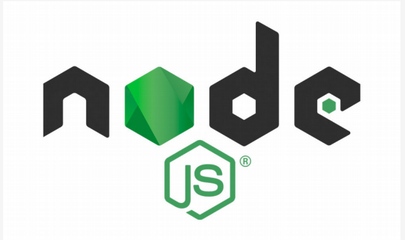
<O que é DockerHub?>

- ✓Repositório compartilhado de Images Docker
- ✓Armazena imagens oficiais e não-oficiais
- ✓Suporte a repositórios privados

<O que é DockerHub?>

Exemplos de empresas com Images Docker oficiais

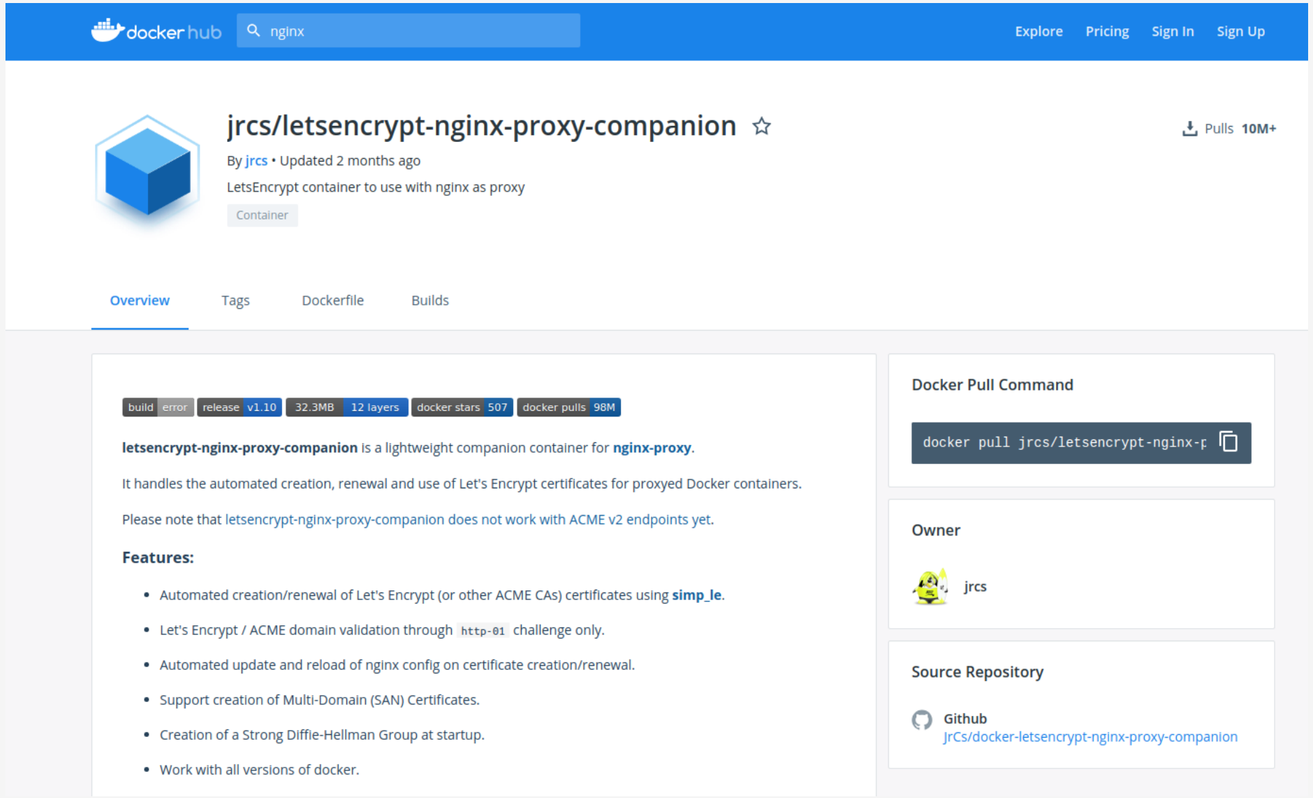
✓



https://hub.docker.com/search/?q=&type=image

<O que é DockerHub?>

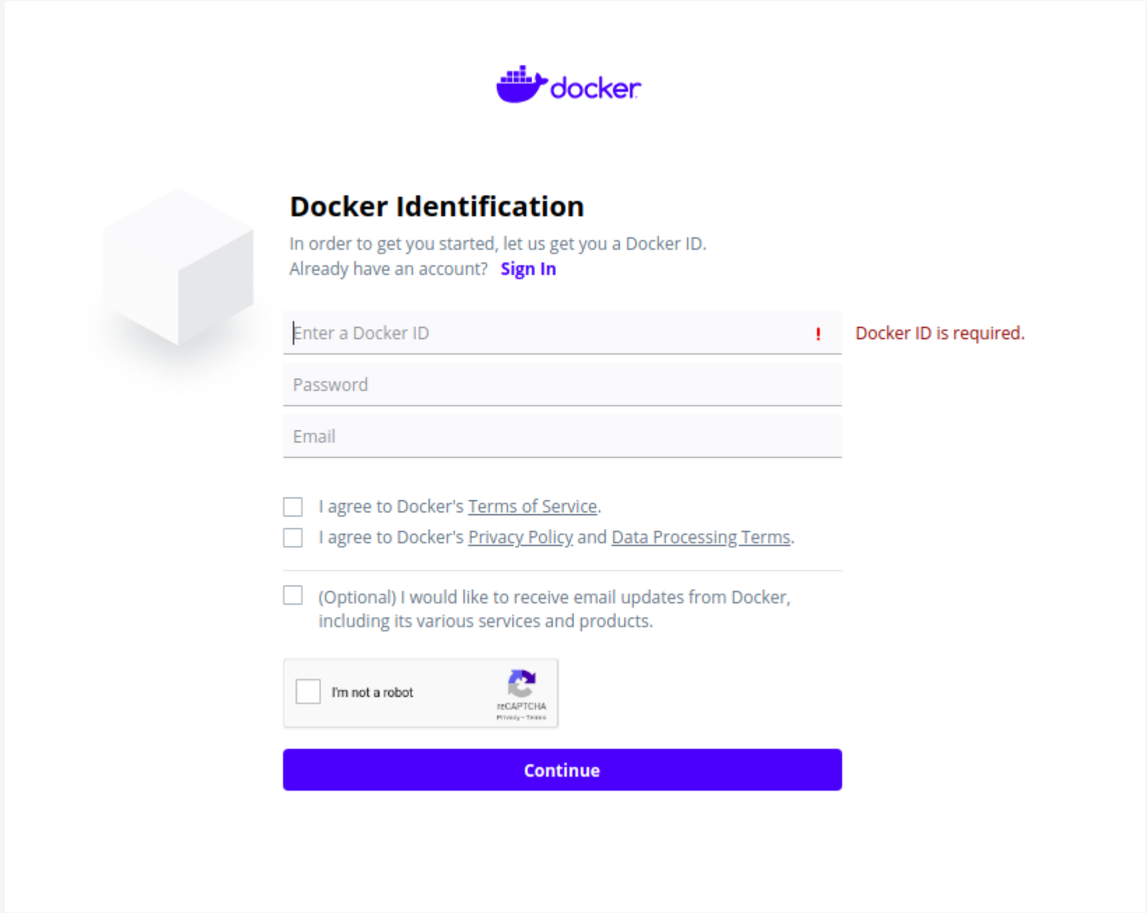
Exemplos de Images Docker não-oficiais



https://hub.docker.com/r/jrcs/letsencrypt-nginx-proxy-companion

<O que é DockerHub?>

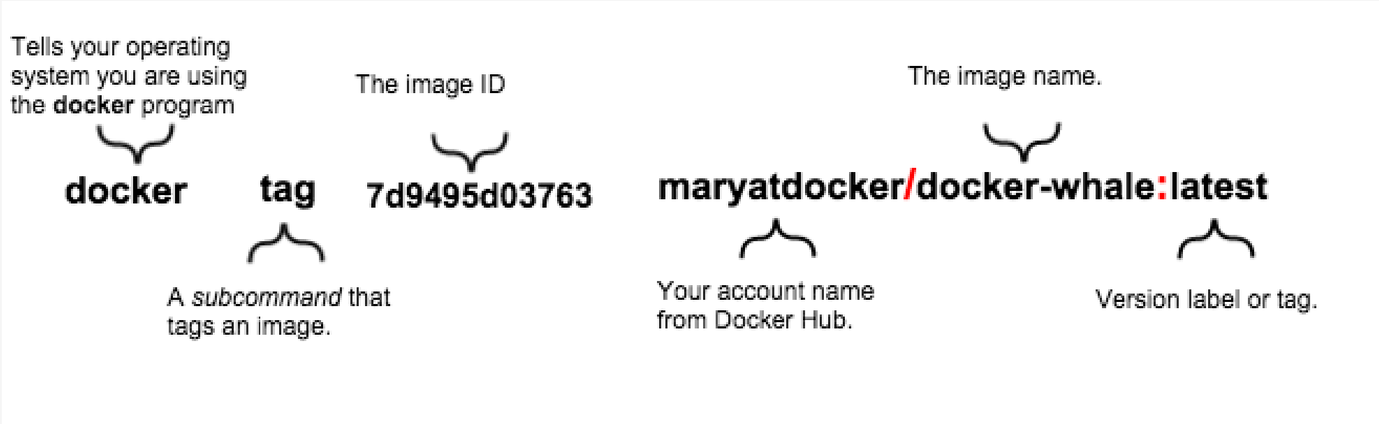
Criando seu docker ID



https://hub.docker.com/signup

<O que é DockerHub?>

Taggeando sua imagem



<O que é DockerHub?>

> No terminal execute

```
$ docker tag id-da-imagem SEU_DOCKER_ID/nome-da-imagem:latest
```

<O que é DockerHub?>

> Push

```
$ docker login

$ docker image push dockerID/nome-da-imagem
```

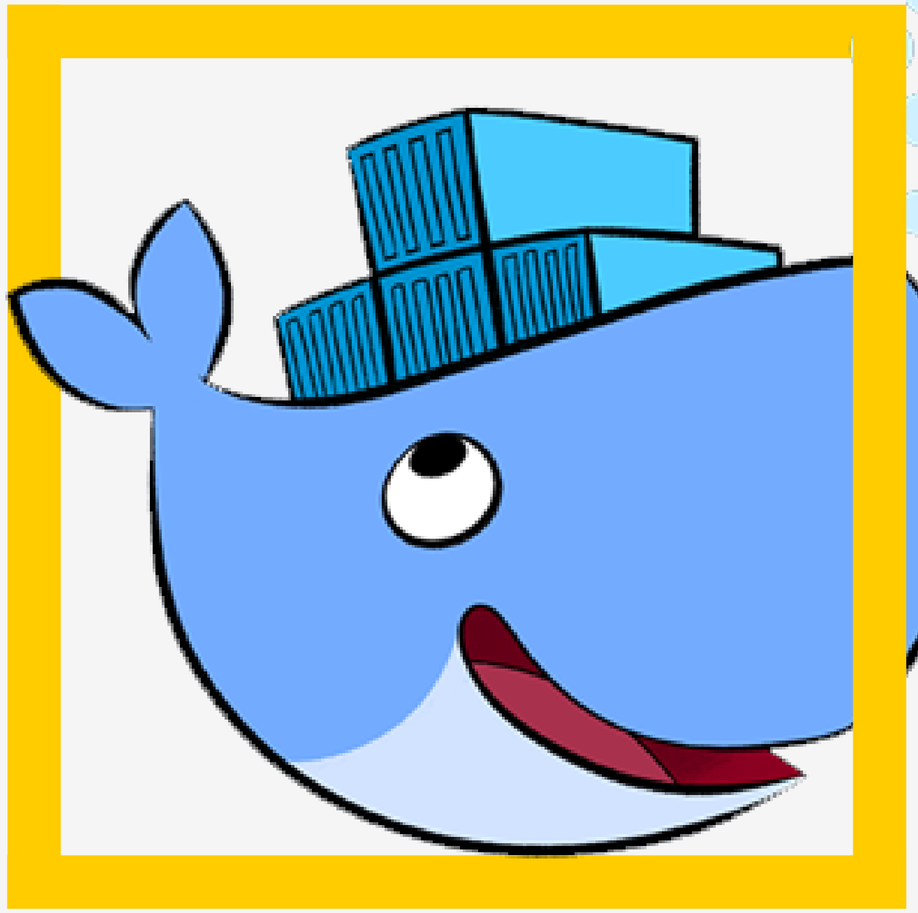
> Pull

```
$ docker image pull dockerID/nome-da-imagem
```

<O que é DockerHub?>

> Buscando imagens

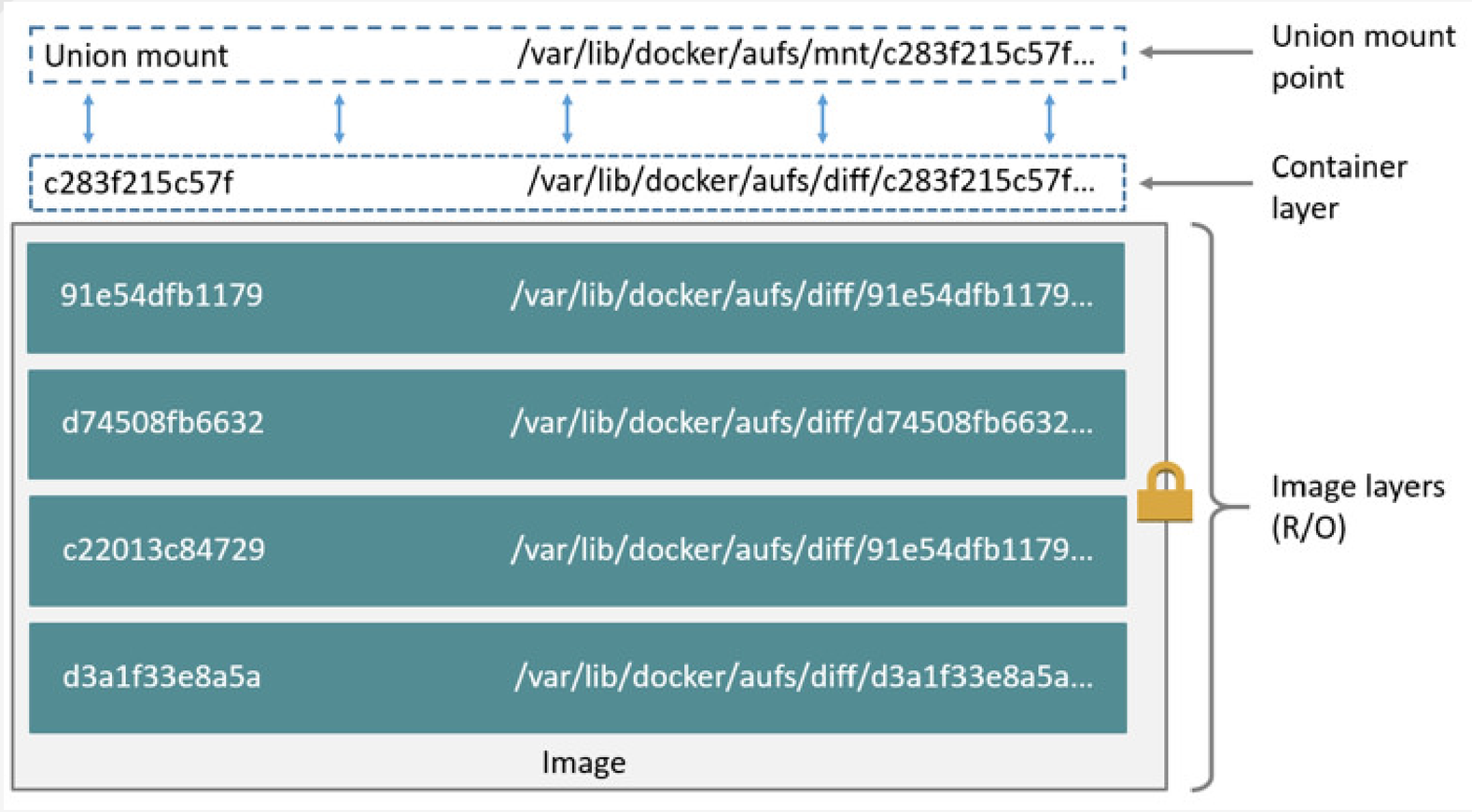
```
$ docker search nome-da-imagem
```



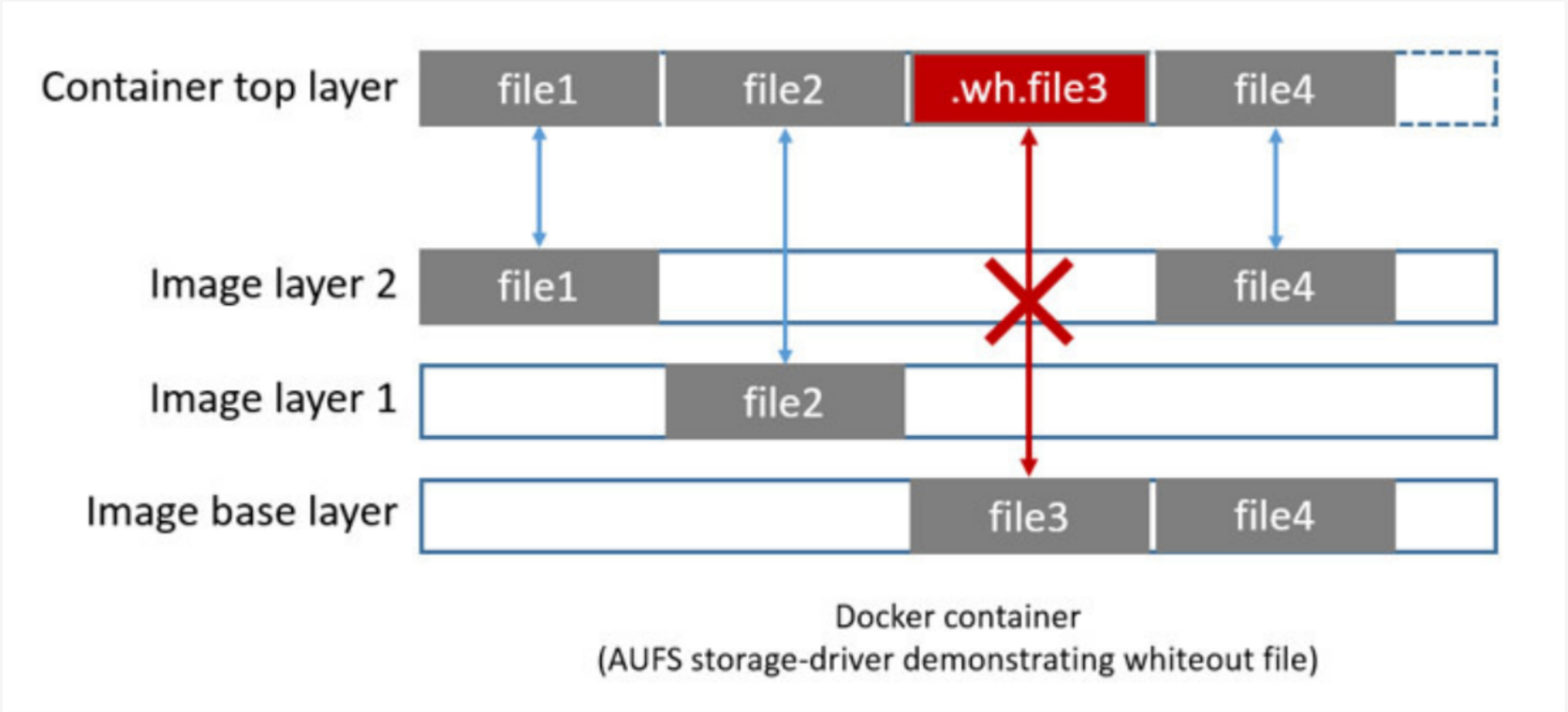
Armanzenamento no

Docker

<Armazenamento no Docker>



<Armazenamento no Docker>



<Armazenamento no Docker>

> Utilizando Volumes

```
$ mkdir /home/user/container1

$ docker container run -v
/home/user/container1:/home/user/container1 ubuntu
```

<Armazenamento no Docker>

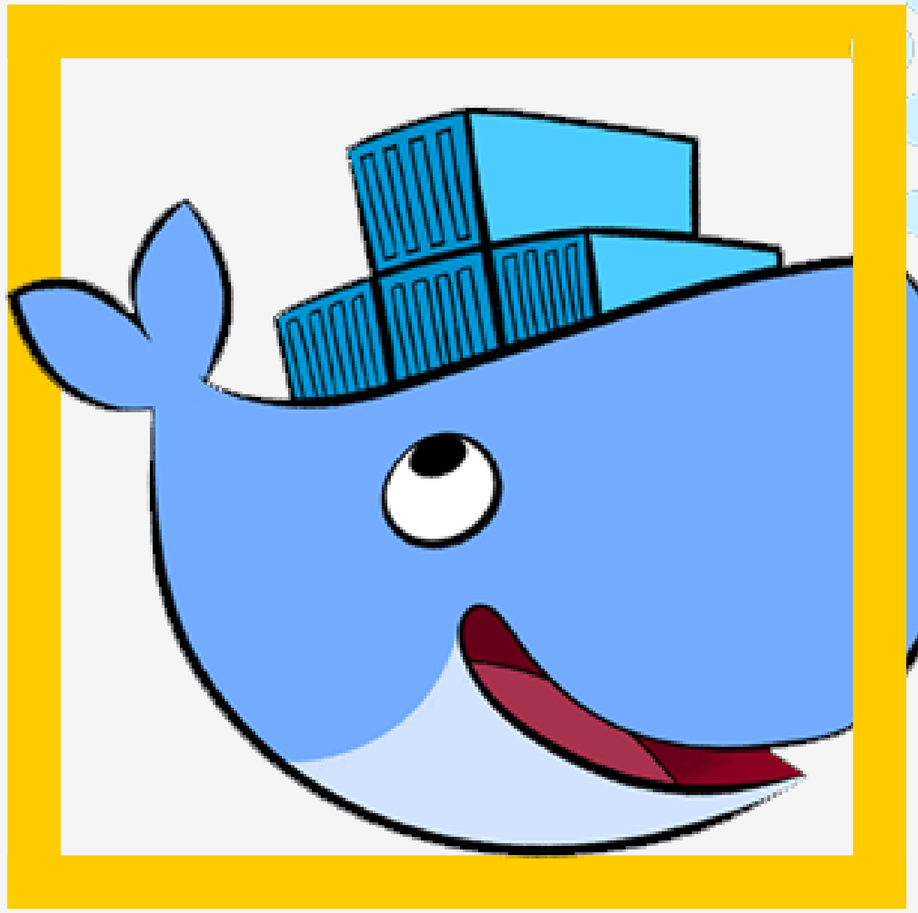
> Mapeamento via container de dados

```
$ docker create -v /dbdata –name dbdata postgres
/bin/true

$ docker container run -d --volumes-from dbdata –
name db2 postgres
```

<Armazenamento no Docker>

> Mapeamento de volumes

```
$ docker volume create -name dbdata

$ docker container run -d -v dbdata:/var/lib/data
postgres
```



Entendendo a rede no

Docker

<Entendendo a rede Docker>

> Redes Bridge

> Redes None

> Redes Overlay

> Redes Usuários

<Entendendo a rede Docker>

> Redes Docker

```
$ docker network ls
```

<Entendendo a rede Docker>

> Exemplo

```
$ docker container run -d --name db -e
MYSQL_ROOT_PASSWORD=minhasenha mysql

$ docker container run -d -p 80:80 --name app
--link db tutum/apache-php

$ docker container exec -it app ping db
```

<Entendendo a rede Docker>

> Exemplo

```
$ docker network create --driver bridge rede-
isolada

$ docker container run -itd --net rede-isolada
alpine sh
```

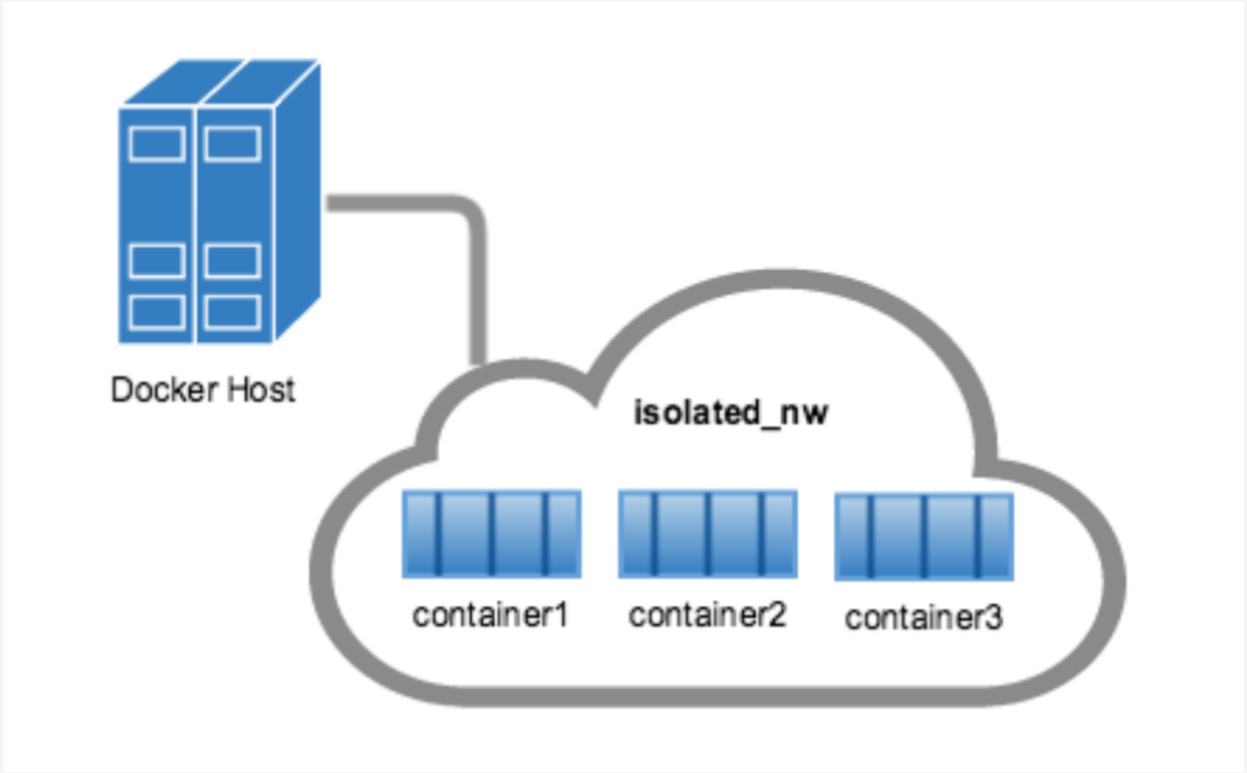
<Entendendo a rede Docker>

> Inspecionado redes Docker

```
$ docker network inspect rede
```

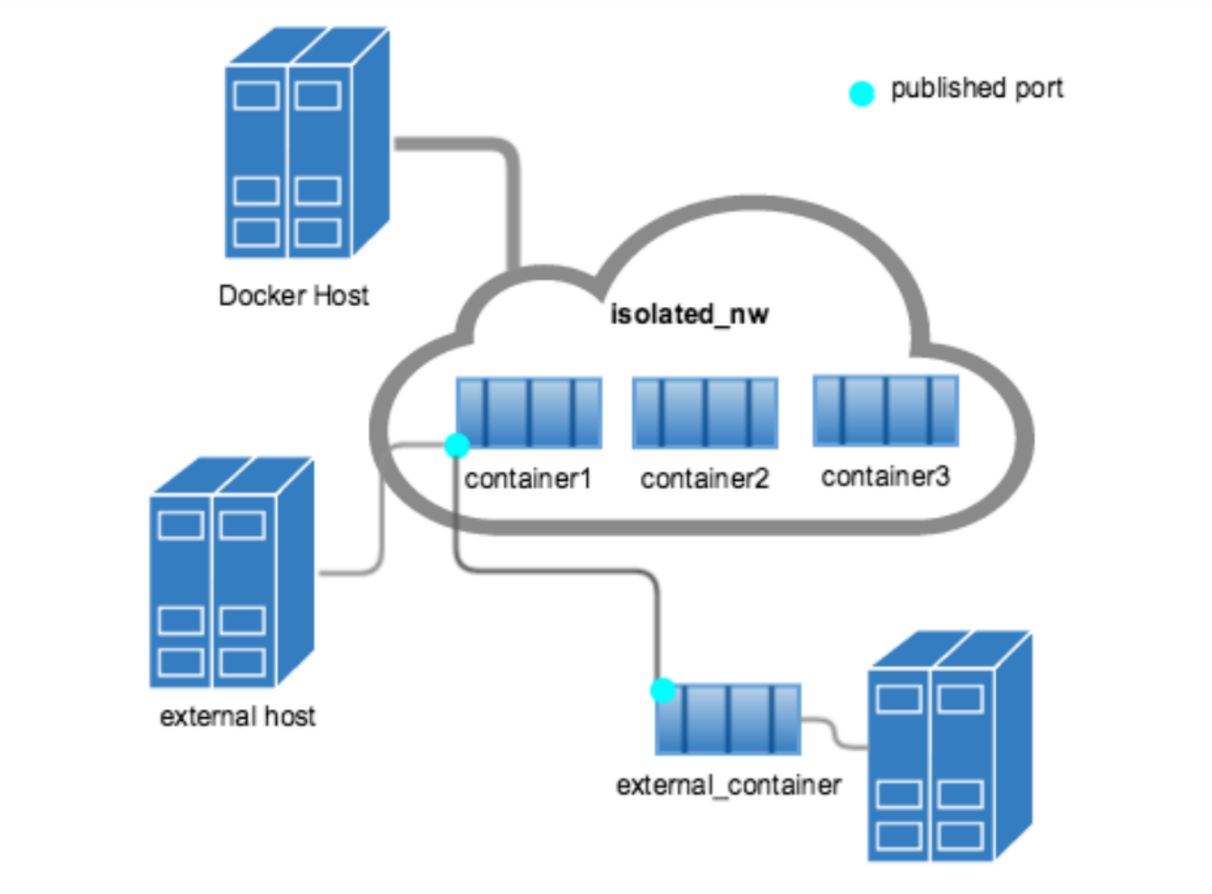
<Entendendo a rede Docker>

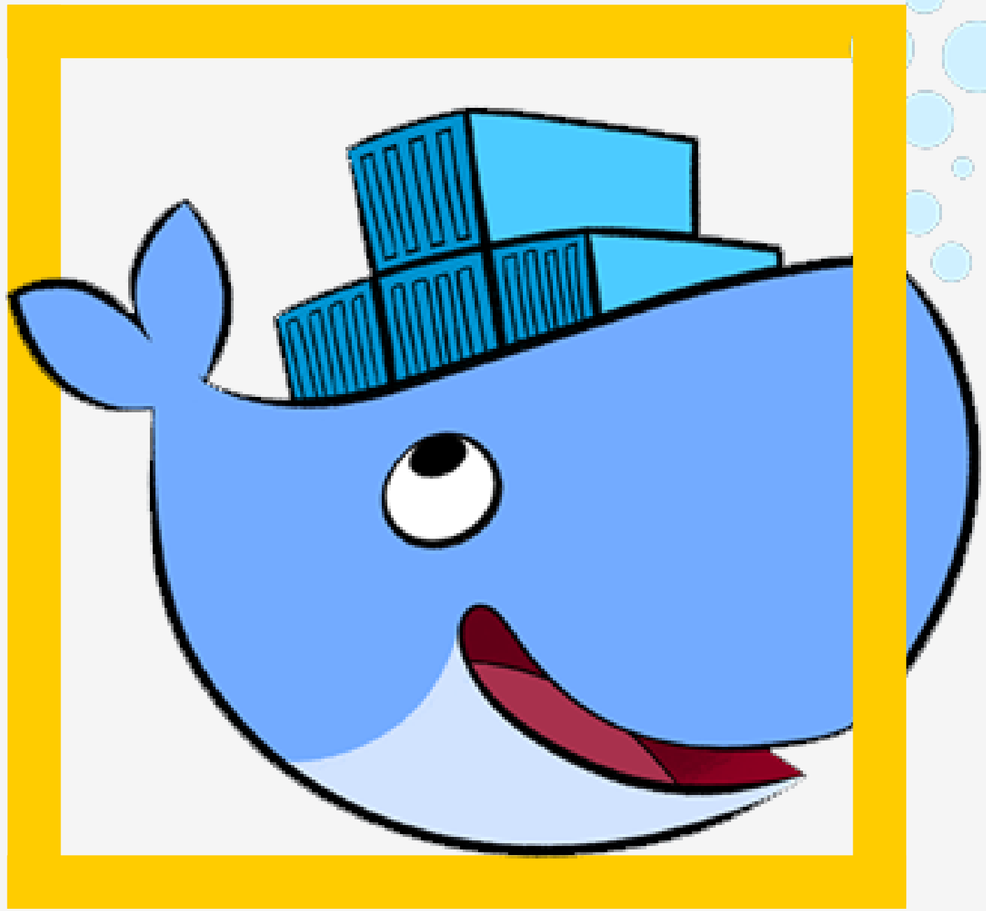
> Redes Isoladas



<Entendendo a rede Docker>

> Redes Overlay



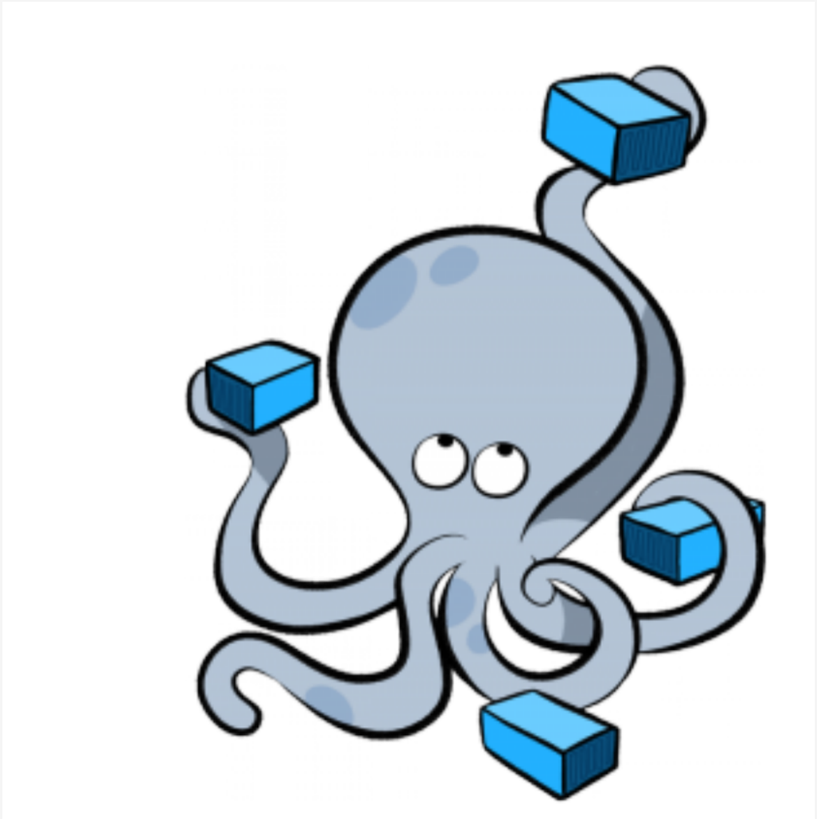


Gerenciando containers com

Docker-Compose

<Gerenciando containers com Docker-Compose>

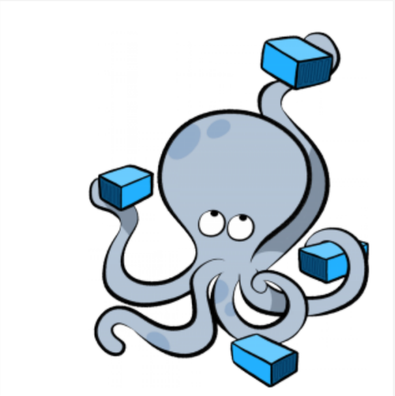
```
version: '3'
services:
  web:
    build:
      context: ./dir
      dockerfile: Dockerfile-alternate
      args:
         versao: 1
  ports:
    - "5000:5000"
redis:
    image: redis
```



<Gerenciando containers com Docker-Compose>

> Instalando o Docker-compose

```
$ sudo curl -L
"https://github.com/docker/compose/releases/downloa
d/1.24.0/docker-compose-$(uname -s)-$(uname -m)" -o
/usr/local/bin/docker-compose

$ sudo chmod +x /usr/local/bin/docker-compose
```

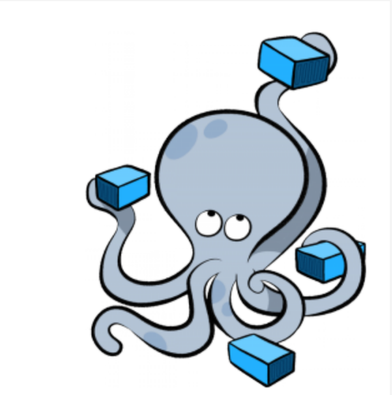


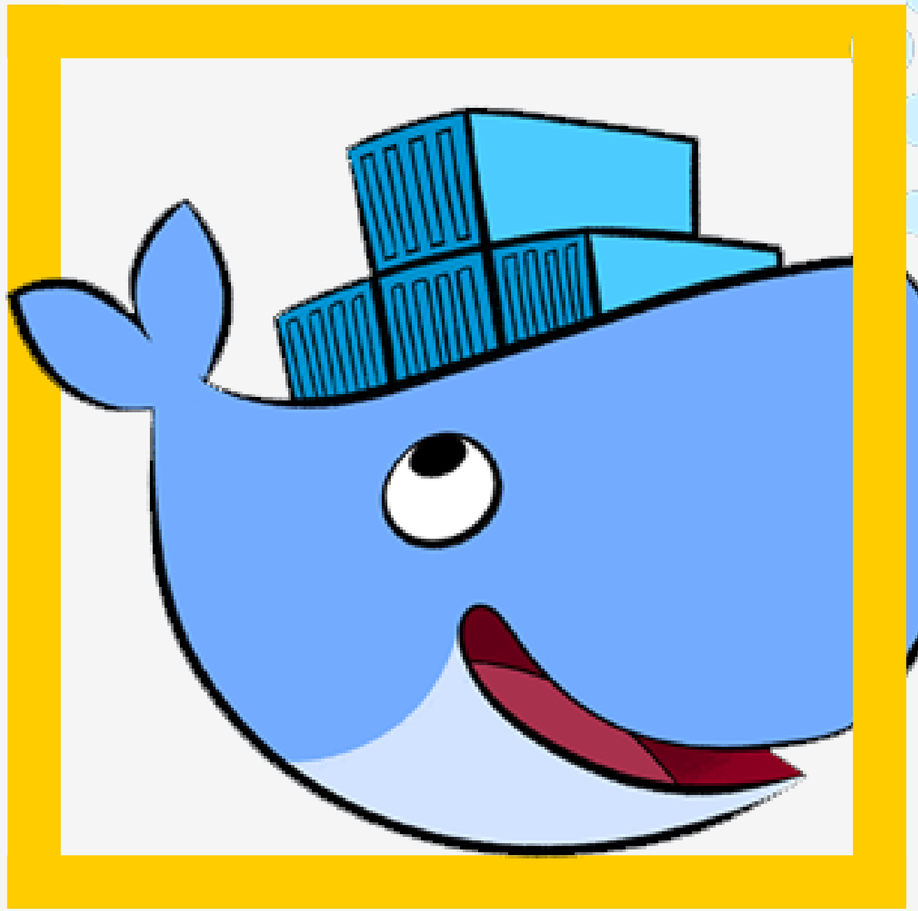
<Gerenciando containers com Docker-Compose>

> Executando o Docker-compose

```
$ docker-compose -d up .
```

```
$ docker-compose down .
```





Hand-ons

<Hand-ons>

>Vamos lá?

$ Criar um docker-compose com aplicação Nginx expondo a porta 8080 para o host e porta 80 para container

$ Rede segregada

$ persistir as configurações do Nginx em volume /home/user/nginx

Obrigado

https://www.linkedin.com/in/diogoalvesbarbosa/
https://www.instagram.com/diogo.alvesoficial/
diogo.alves.barbosa@gmail.com