

Começando com DOCKET



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



Pouco mais de 12 anos como:

- SysAdmin apaixonado por Linux
- Desenvolvedor
- Instrutor
- Entusiasta de Segurança da Informação



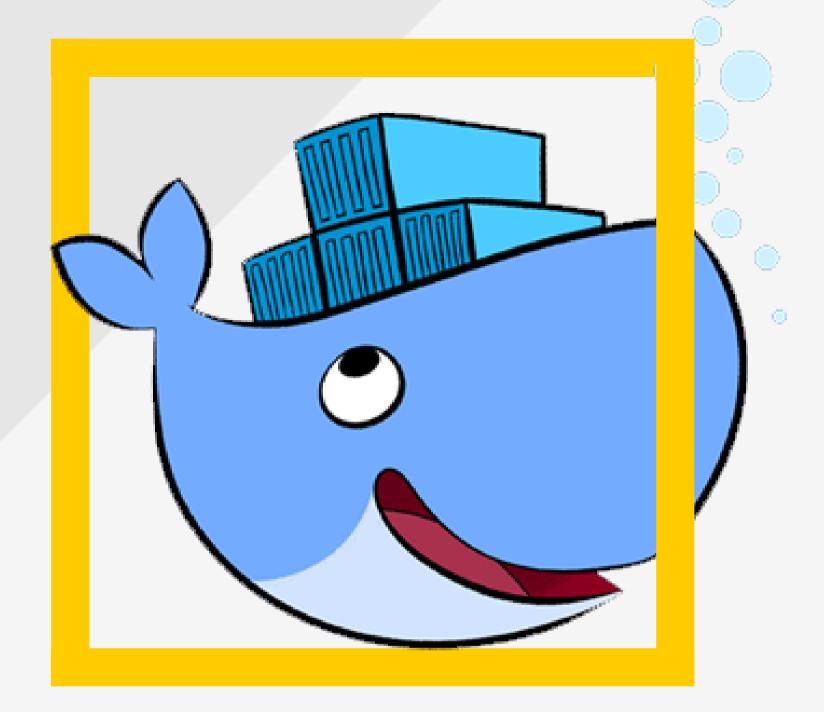
Formação:

- Sistemas de Informação



Algumas Certificações:

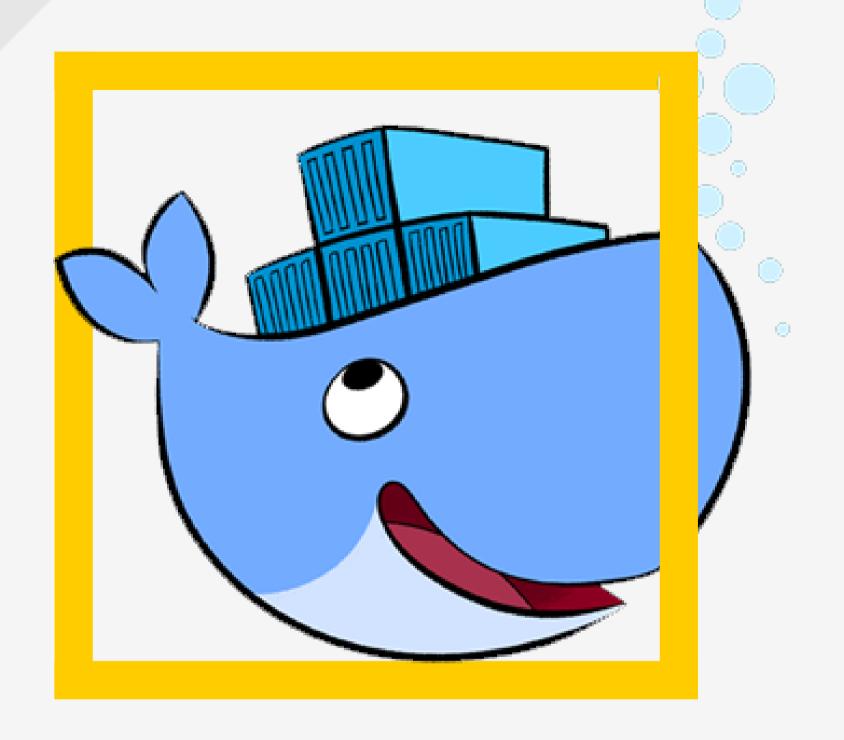
- CEH Ethical Hacking
- ISO 27001
- Asterisk Administrator
- AWS



Agenda

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

Começando com DOCKET



o que é DockerHub?





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



Exemplos de empresas com Images Docker oficiais







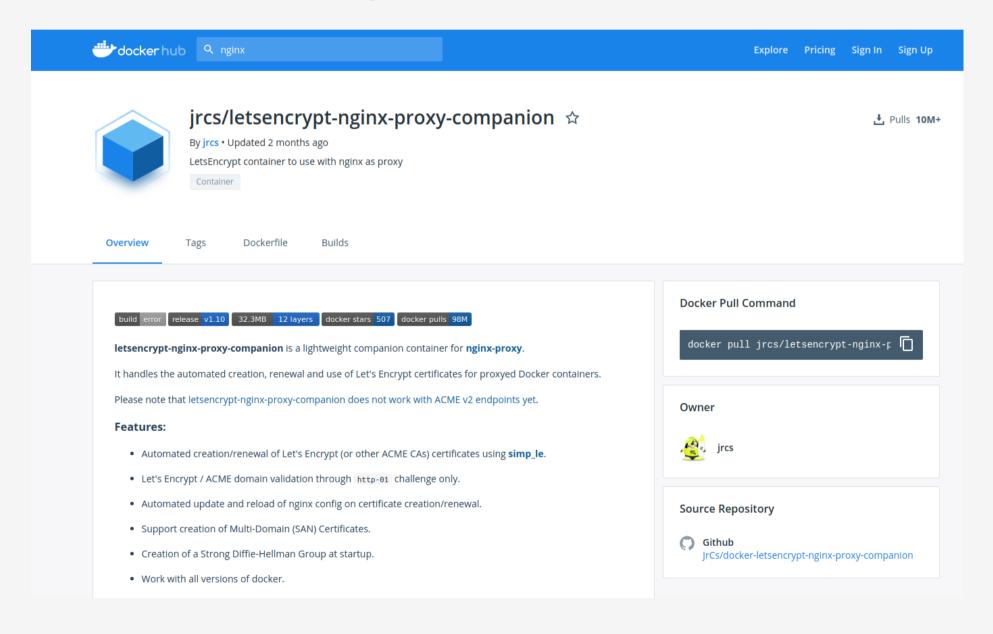




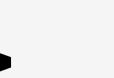




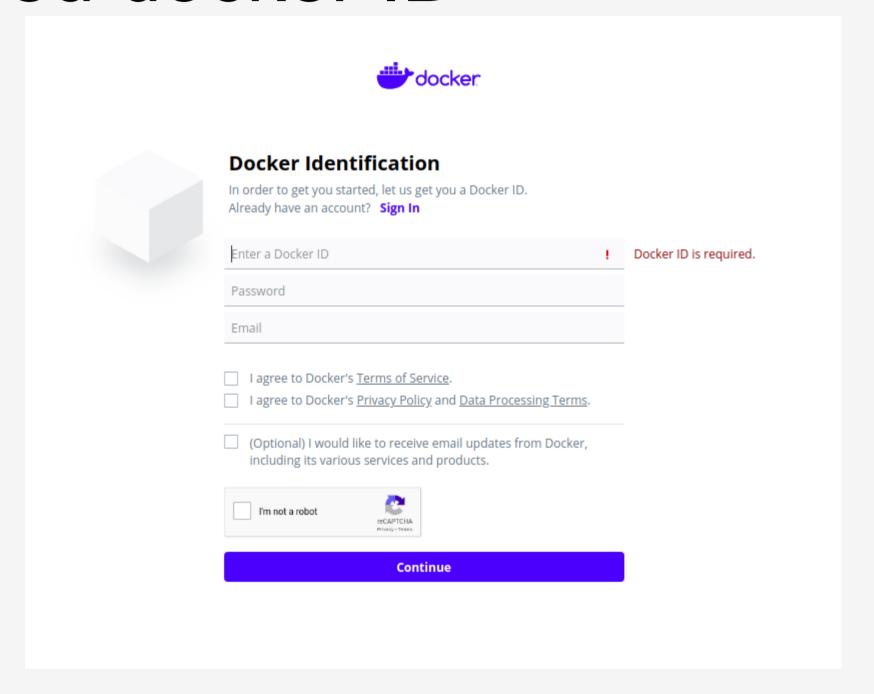
Exemplos de Images Docker não-oficiais



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

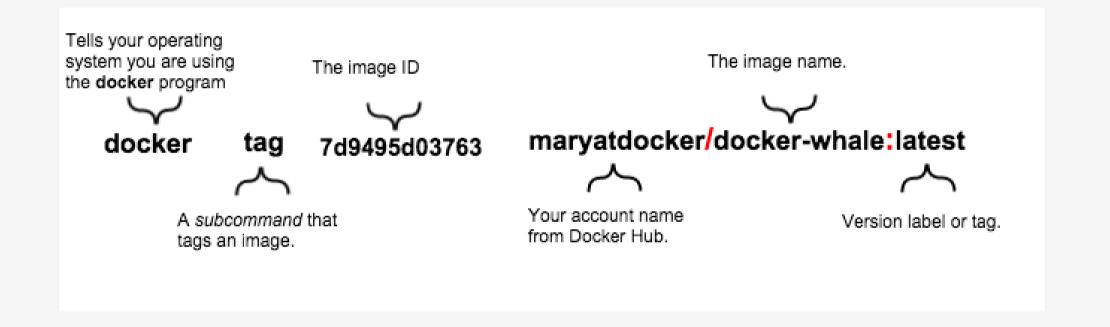


Criando seu docker ID





Taggeando sua imagem





> No terminal execute

```
$ docker build . -t nome-da-image
```

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



> Push

- \$ docker login
- \$ docker image push dockerID/nome-da-imagem

> Pull

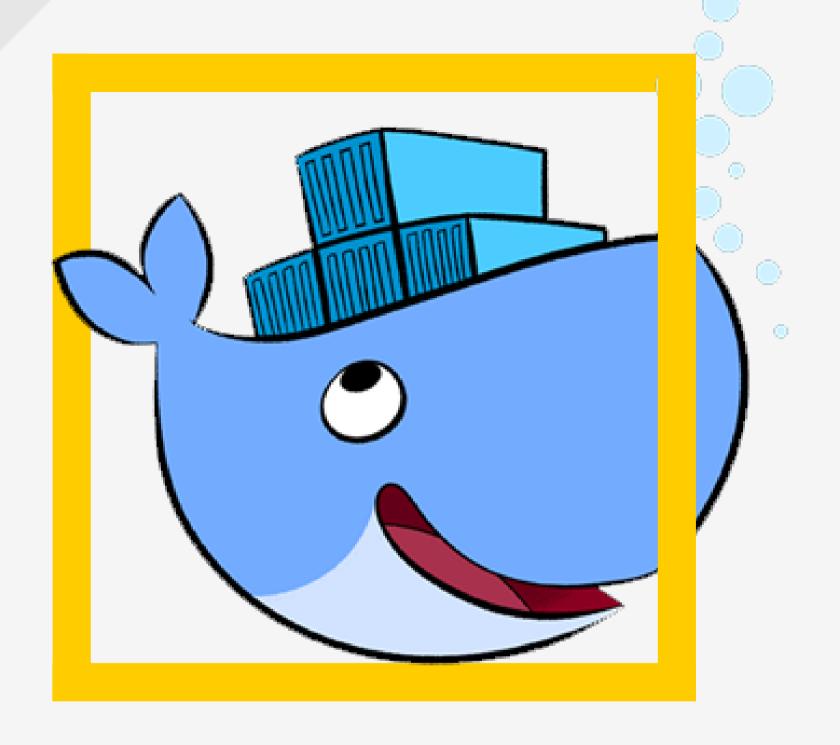
\$ docker image pull dockerID/nome-da-imagem





> Buscando imagens

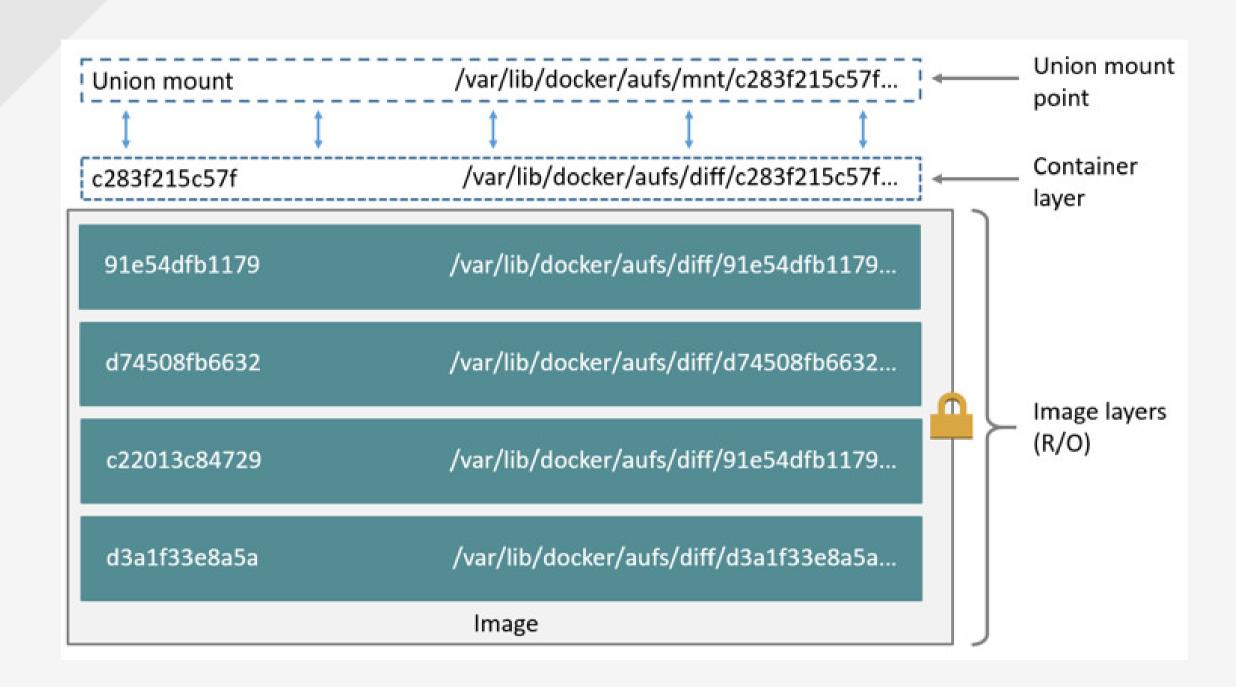
\$ docker search nome-da-imagem



Armanzenamento no DOCKEr

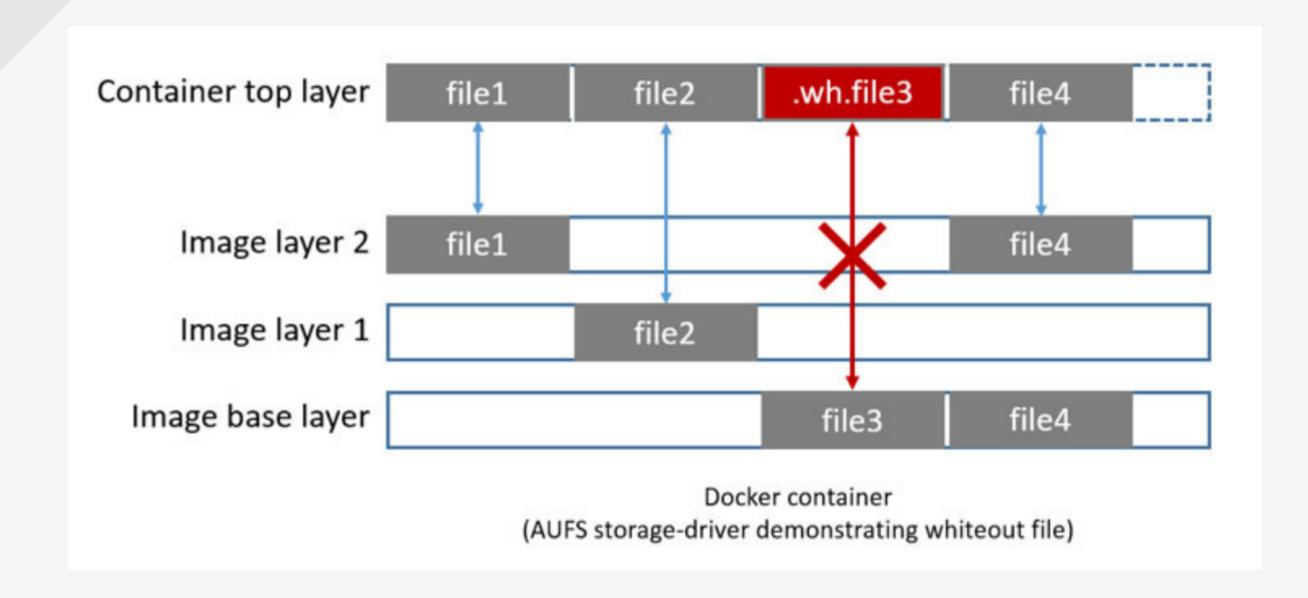


Armazenamento no Docker>





Armazenamento no Docker>





Começando com 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

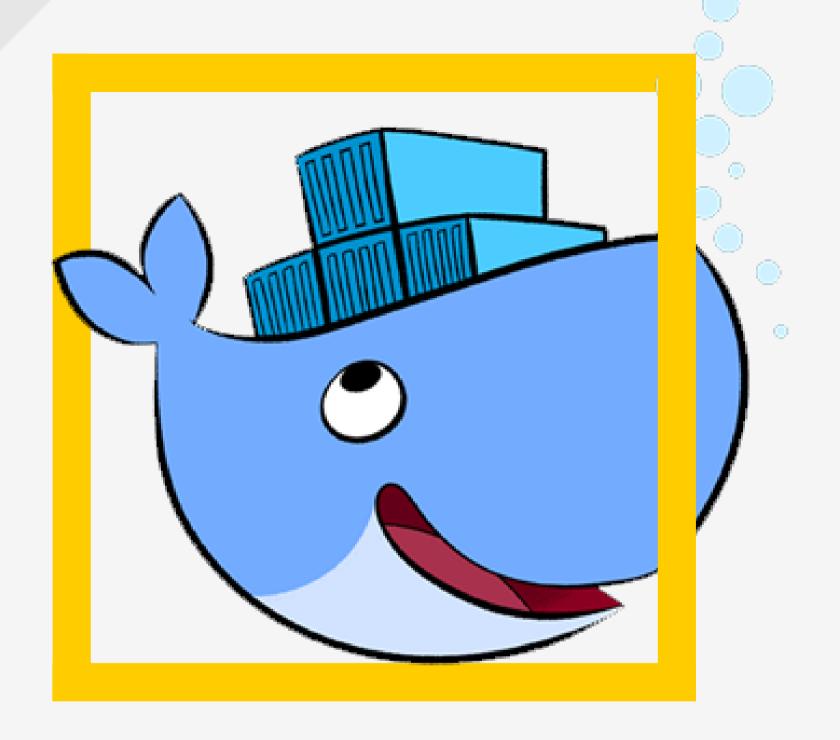


Armazenamento no Docker>

> Mapeamento de volumes

```
$ docker volume create -name dbdata
```

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



Entendendo a rede no

Docker



- > Redes Bridge
- > Redes None
- > Redes Overlay
- > Redes Usuários



> Redes Docker

\$ docker network ls

> 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



> Exemplo

\$ docker network create --driver bridge redeisolada

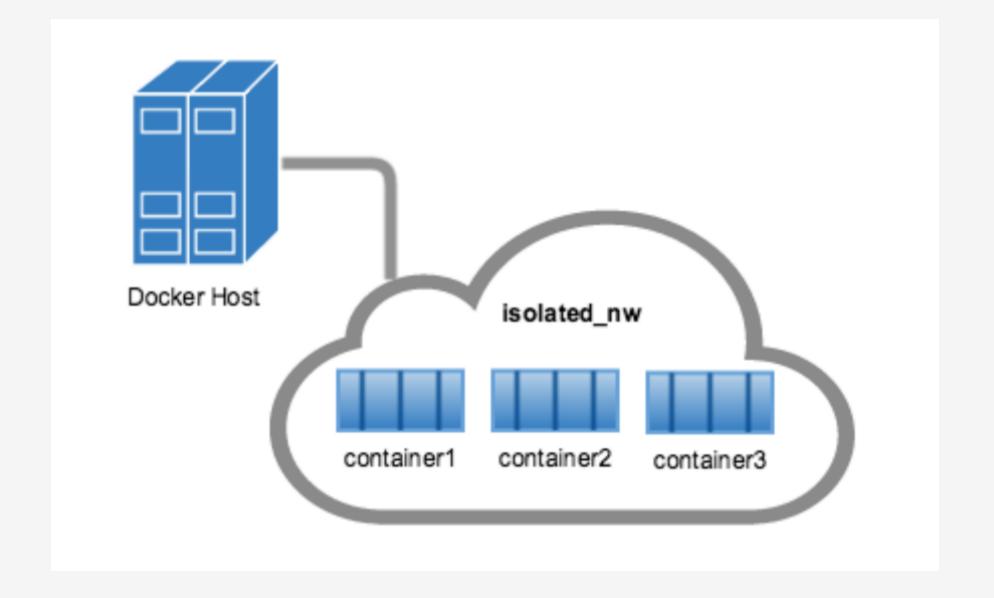
\$ docker container run -itd --net rede-isolada
alpine sh



- > Inspecionado redes Docker
- \$ docker network inspect rede

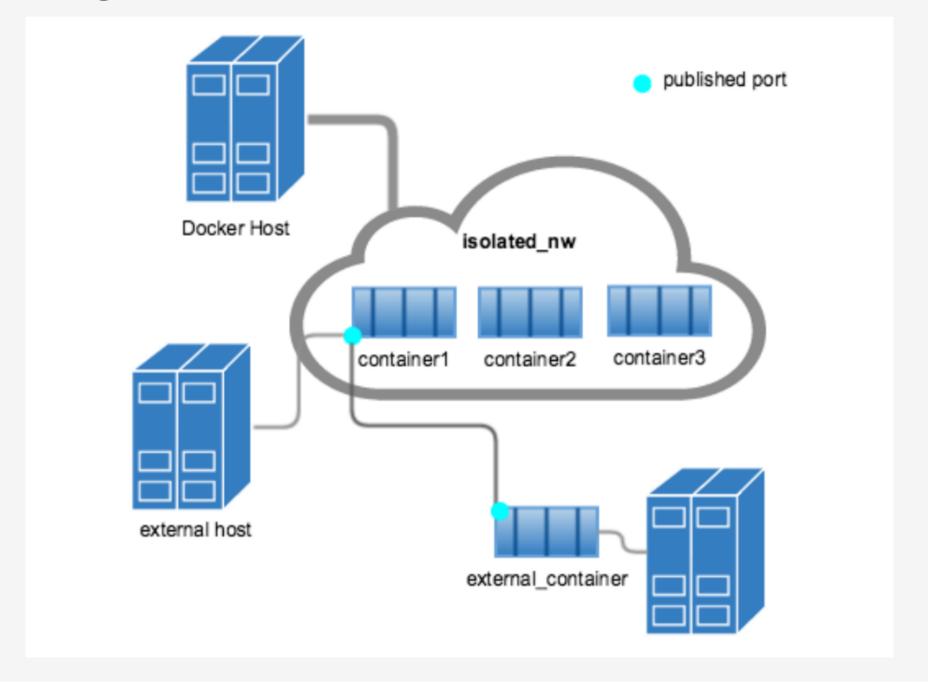


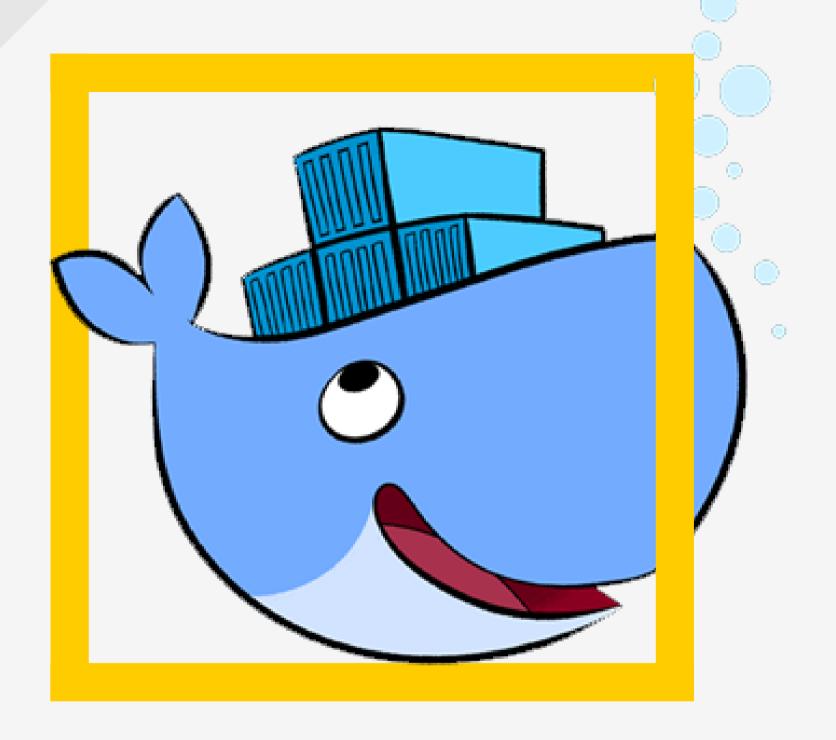
> Redes Isoladas





> Redes Overlay



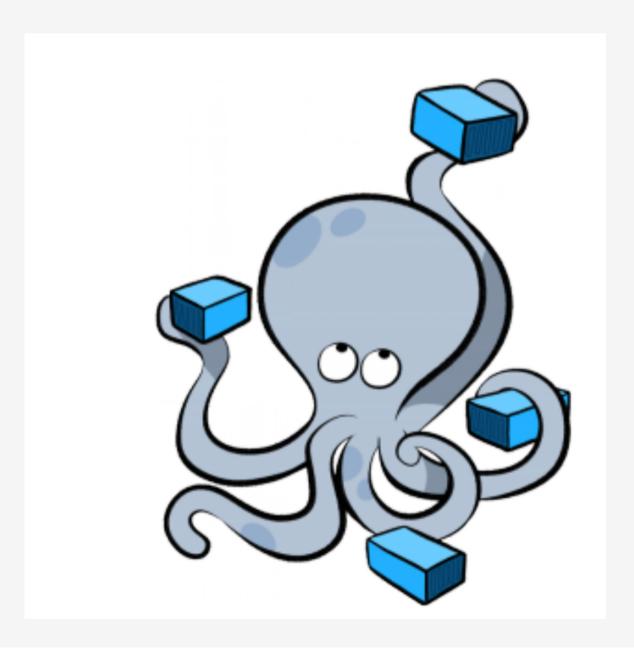


Gerenciando containers com

Docker-Compose




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



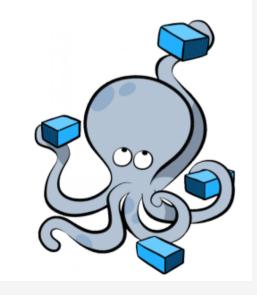


Gerenciando containers com Docker-Compose >

> 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



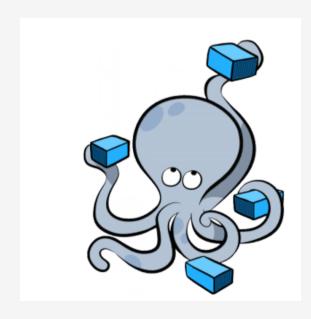


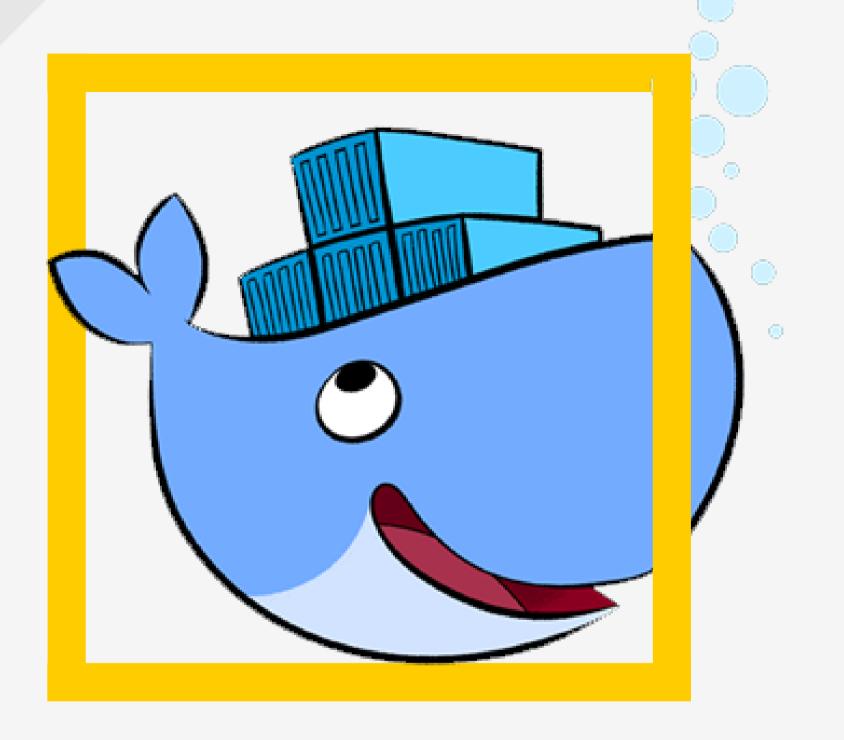
Gerenciando containers com Docker-Compose >

> 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



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