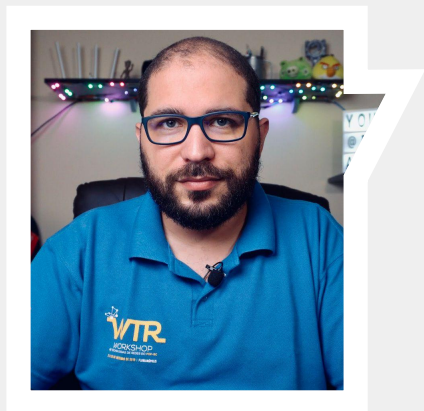




Docker do Básico ao Cluster Swarm + NFS



Hey!

Sou o Wesley,

Amante de Infraestrutura, Explorador de Serviços, Programador Back-end nas horas vagas, porque viver é isso né?

Você me encontra
sempre como

@wesleycsil

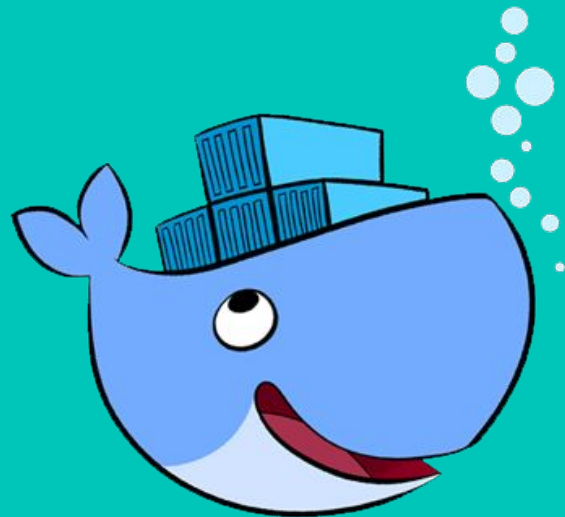
seja no Facebook ou
no Github

wesley@infra.expert



O que é Docker?

vamos começar!



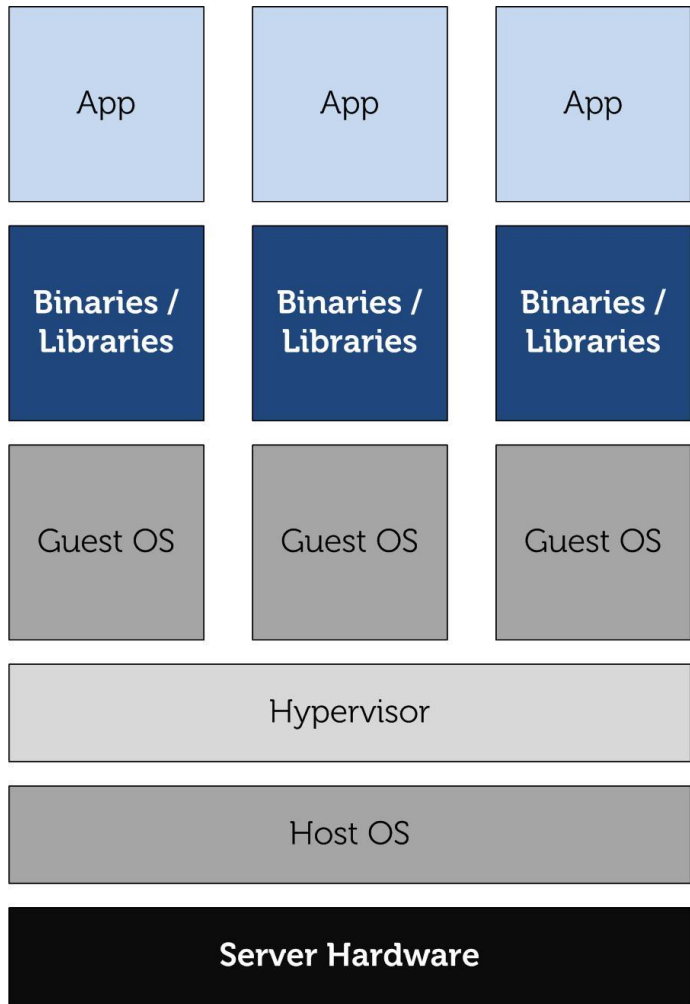


Docker

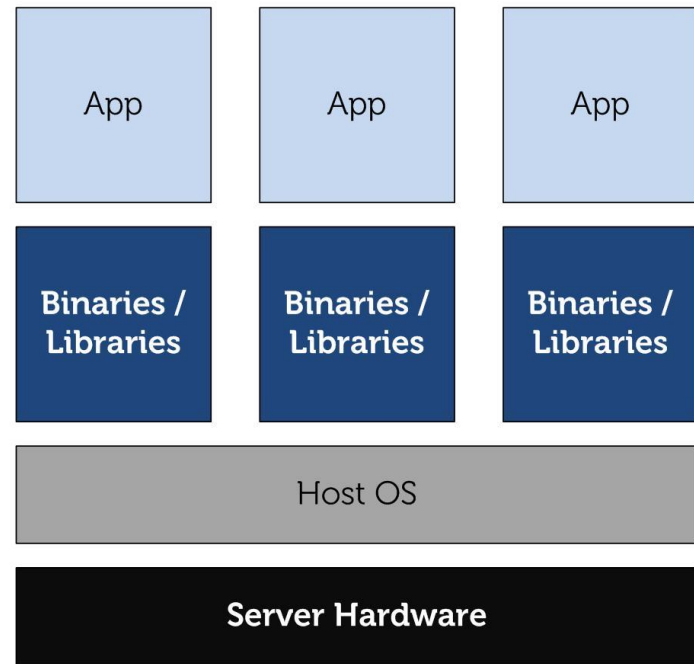
Docker não é virtualização tradicional

Docker possibilita o empacotamento de uma aplicação ou ambiente inteiro dentro de um container e a partir desse momento o ambiente se torna portátil.

Docker - E ai?



Virtualization



Containers

Docker File

#Iniciar pela imagem do Node

FROM node:10

LABEL "com.example.vendor"="Wesley Silva"

LABEL com.example.label-with-value="https://twcreativs.com.br"

LABEL version="1.0"

LABEL description="Serviço VOD de Streaming - API"

#Pasta de Trabalho do APP dentro do Container

WORKDIR /usr/src/app

#Copiar arquivos necessários para fazer a instalação do app

COPY ./api/package*.json /usr/src/app/

RUN npm install

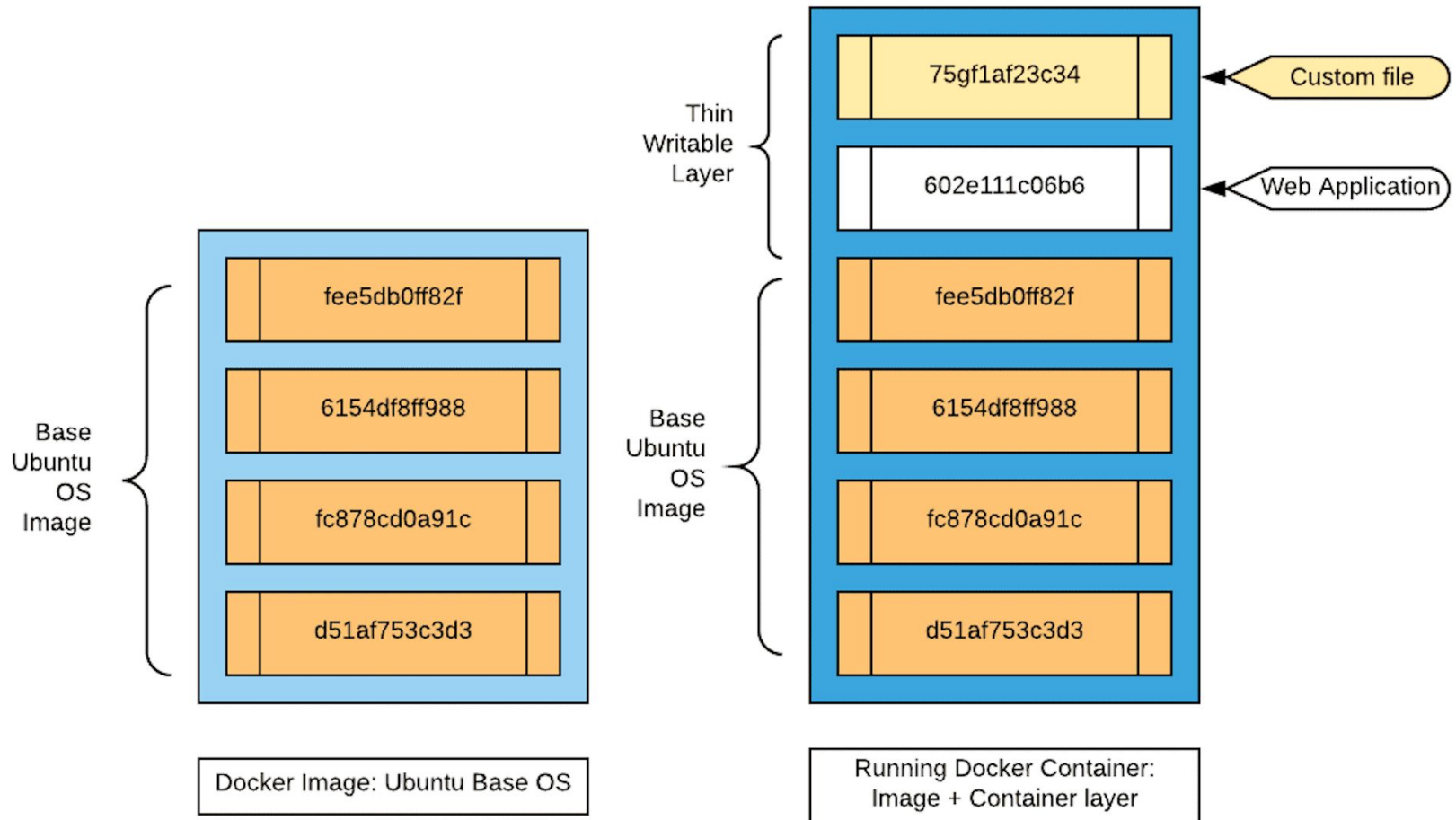
COPY ./api/ /usr/src/app

EXPOSE 8080

VOLUME ["/usr/src/app/uploads/", "/usr/src/app/files/"]

CMD ["npm", "start"]

Docker - Images





Docker - Multi Stage Image

```
FROM debian:stable
```

```
WORKDIR /var/www
```

```
RUN apt-get update
```

```
RUN apt-get -y --no-install-recommends install curl
```

```
RUN apt-get -y --no-install-recommends install ca-certificates
```

```
RUN curl
```

```
https://raw.githubusercontent.com/gadiener/docker-images-size-benchmark  
/master/main.go -o main.go
```

```
RUN apt-get purge -y curl
```

```
RUN apt-get purge -y ca-certificates
```

```
RUN apt-get autoremove -y
```

```
RUN apt-get clean
```

```
RUN rm -rf /var/lib/apt/lists/*
```

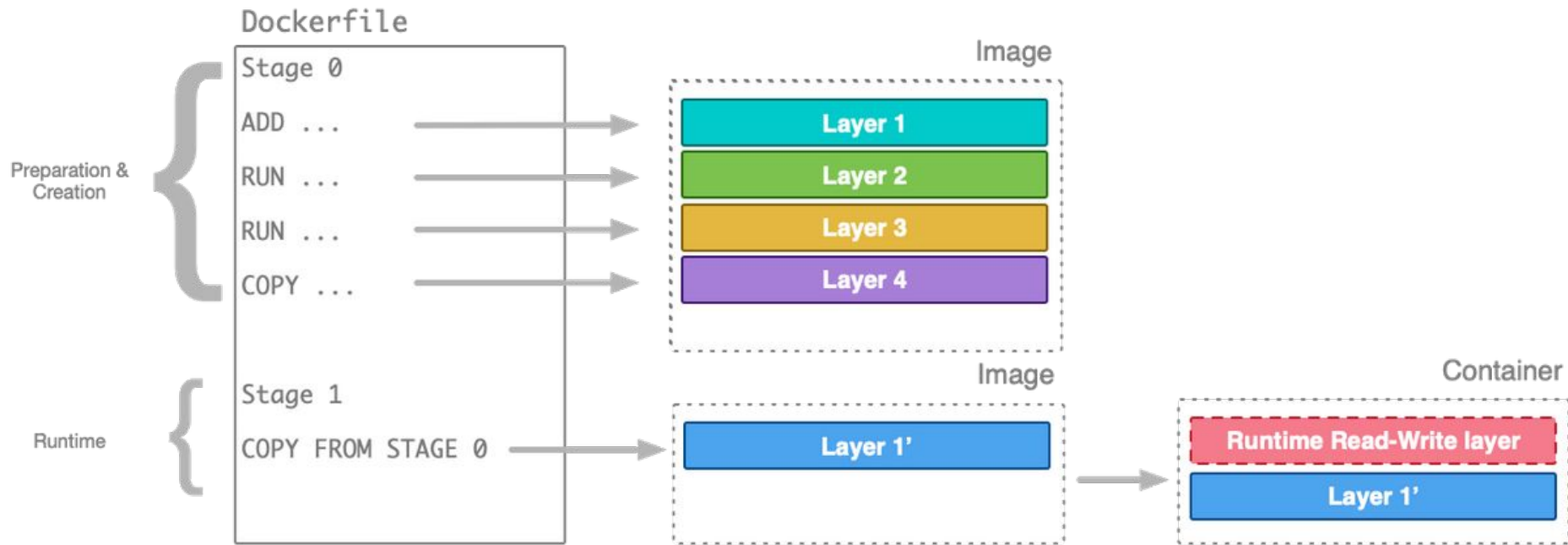
Docker - Multi Stage Image

```
FROM debian:stable
```

```
WORKDIR /var/www
```

```
RUN apt-get update && \  
    apt-get -y --no-install-recommends install curl \  
        ca-certificates && \  
    curl \  
https://raw.githubusercontent.com/gadiener/docker-images-size-benchmark/master/  
main.go -o main.go && \  
    apt-get purge -y curl \  
        ca-certificates && \  
    apt-get autoremove -y && \  
    apt-get clean && \  
    rm -rf /var/lib/apt/lists/*
```

Docker - Multi Stage Image



Docker - Multi Stage Image

```
FROM golang:1.10.4 as build
```

```
RUN CGO_ENABLED=0 GOOS=linux go get -v  
github.com/lyft/ratelimit/src/service_cmd
```

```
FROM alpine:3.8 AS final  
WORKDIR /ratelimit/config
```

```
RUN apk --no-cache add ca-certificates  
COPY --from=build /go/bin/service_cmd /usr/local/bin/ratelimit
```



**Vamos
implementar?**

Digital Ocean \$ 200



O que é o Portainer?

Vamos lá, essa vai te ajudar!



portainer.io



Portainer

Sabe aquela interface gráfica que você estava pedindo para não ter que escrever um monte de comandos? Então...

by Wesley

Portainer

10.0.0.254:9000/#/

portainer.io

NAVIGATION

Dashboard

App Templates

Containers

Images

Networks

Volumes

Events

Docker

Home

Dashboard

Node info

Name	docker
Docker version	1.12.0
CPU	2
Memory	4.1 GB

2

Containers

1 running
1 stopped

2

Volumes

aufs driver

4

Images

254.6 MB

4

Networks

Portainer v1.10.2

17

O que é o Traefik?

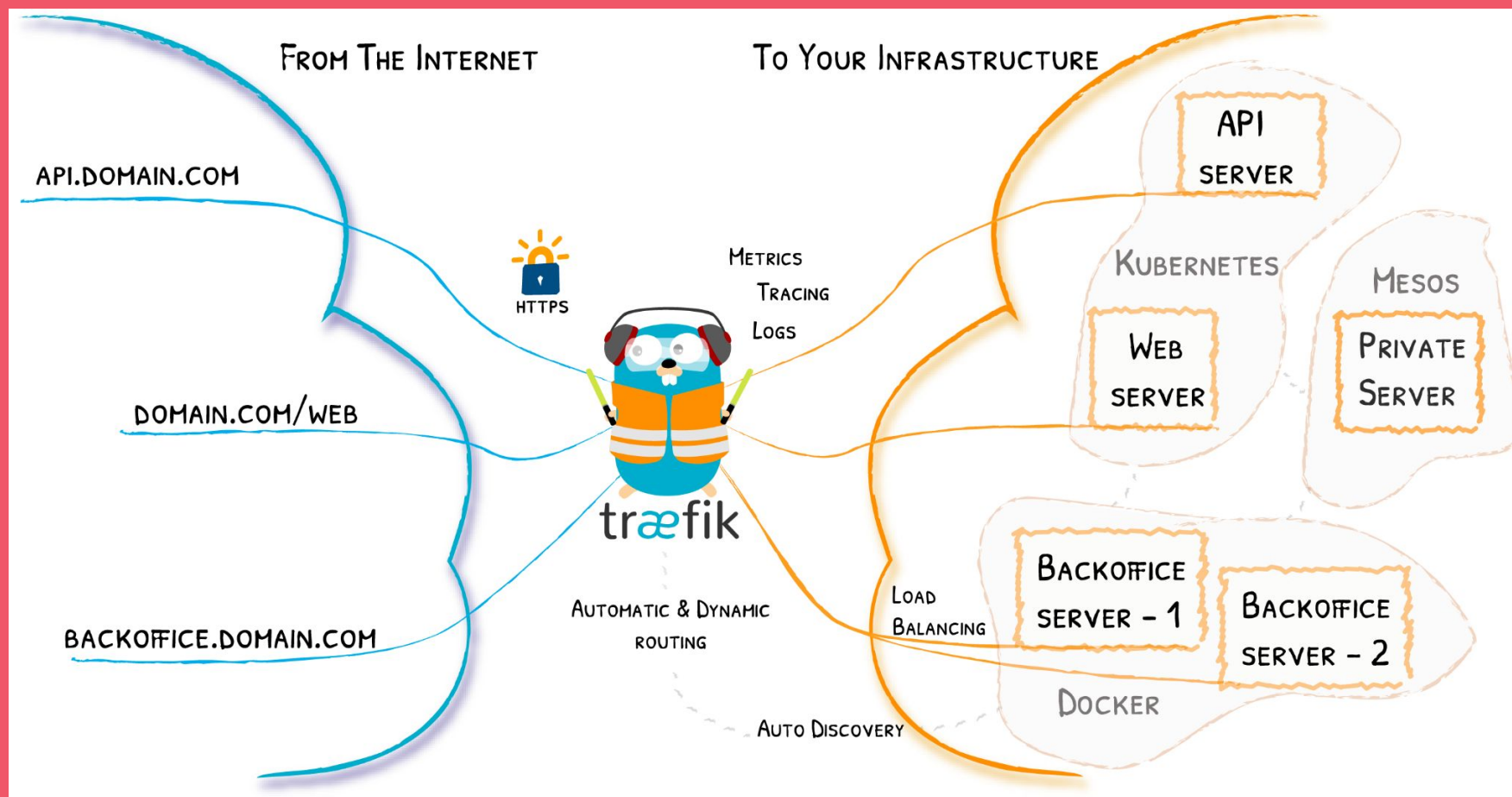
Vamos lá, essa vai te ajudar!



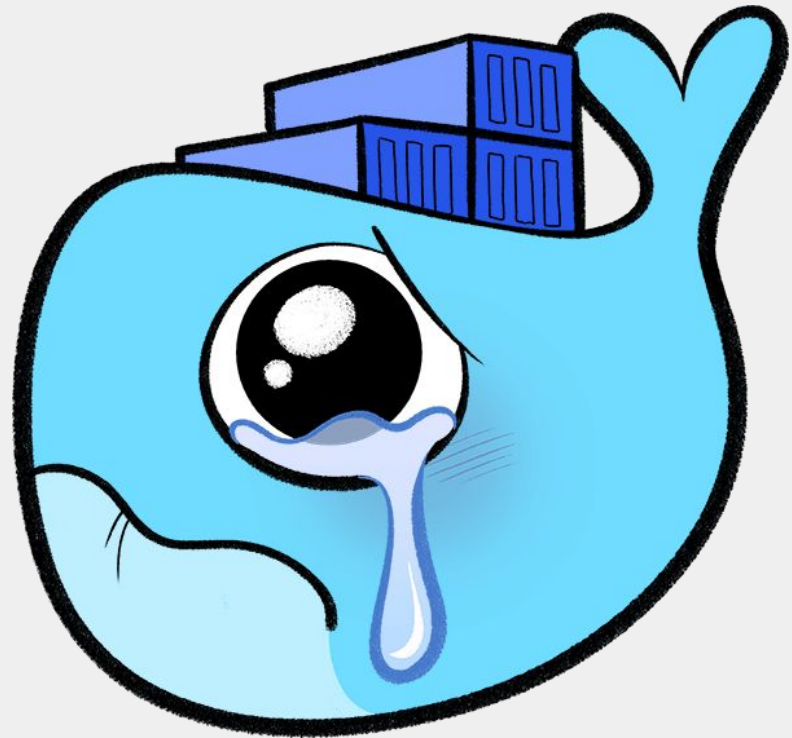
Traefik

Sabe aquele carinha que fica na pista do aeroporto apontando para onde o avião deve ir? (Aquele mesmo de Colete)

by Wesley



Chegamos ao fim...





Thanks!

Perguntas?

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<https://infra.expert>