CONTINUOUS DELIVERY OF DOCKER IMAGES

A Customer case: ZorgDomein





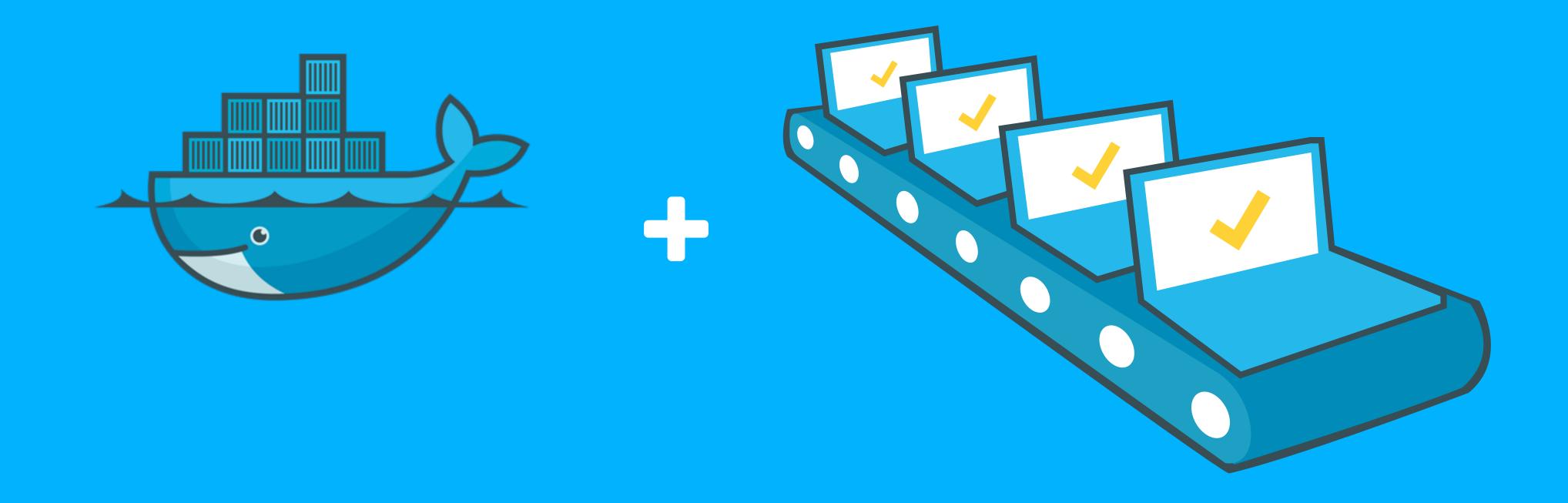
DELIVER SOFTWARE WITH THE SPEED OF THOUGHT



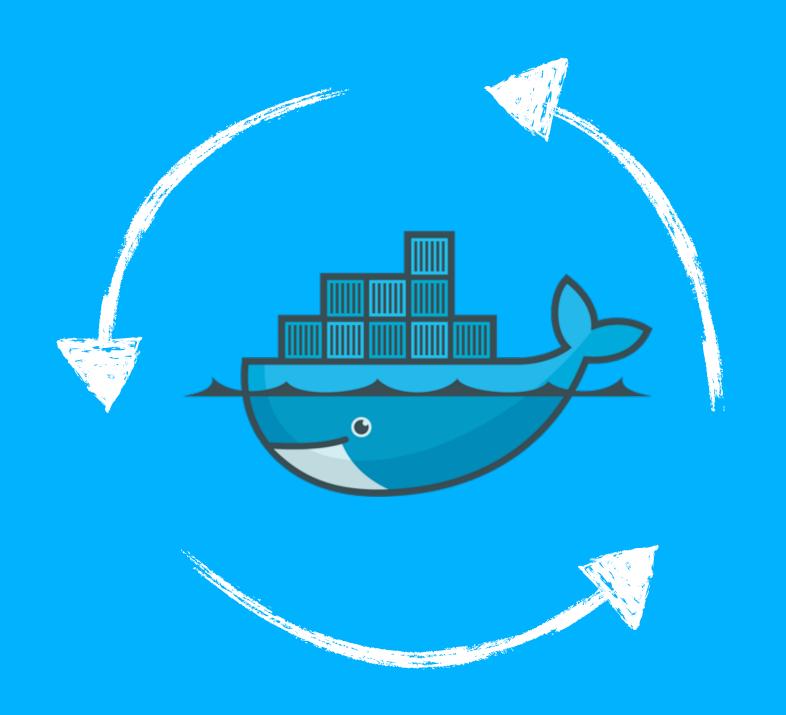
WEAS



DOCKER + CONTINUOUS DELIVERY



CONTINUOUS DELIVERY OF DOCKER IMAGES



CONTINUOUS DELIVERY OF DOCKER IMAGES

Platform to deploy your docker images to

Set up the logging, monitoring and alerting

Application versioning

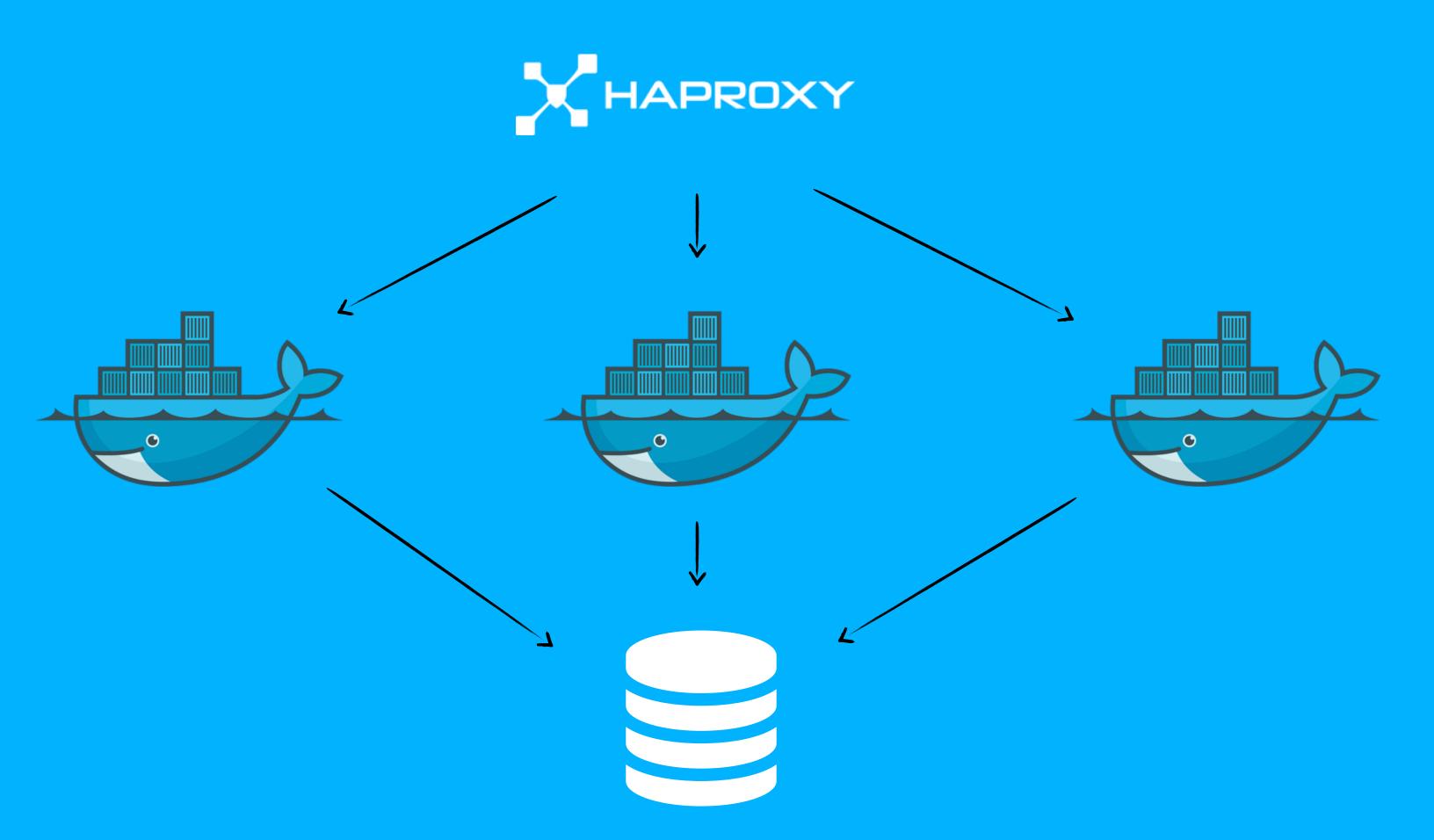
Zero downtime deployment

Security



HIGH AVAILABLE PLATFORM

HIGH AVAILABLE PLATFORM



LOADBALANCER

```
frontend main
  bind *:80
 mode http
 maxconn 1000
 default_backend app
backend app
 mode http
  balance roundrobin
 option httpchk /health
  server intapp01 intapp01.zorgdomein.local:80 check port 8080
  server intapp02 intapp02.zorgdomein.local:80 check port 8080
 server intapp03 intapp03.zorgdomein.local:80 check port 8080
```

LOADBALANCER

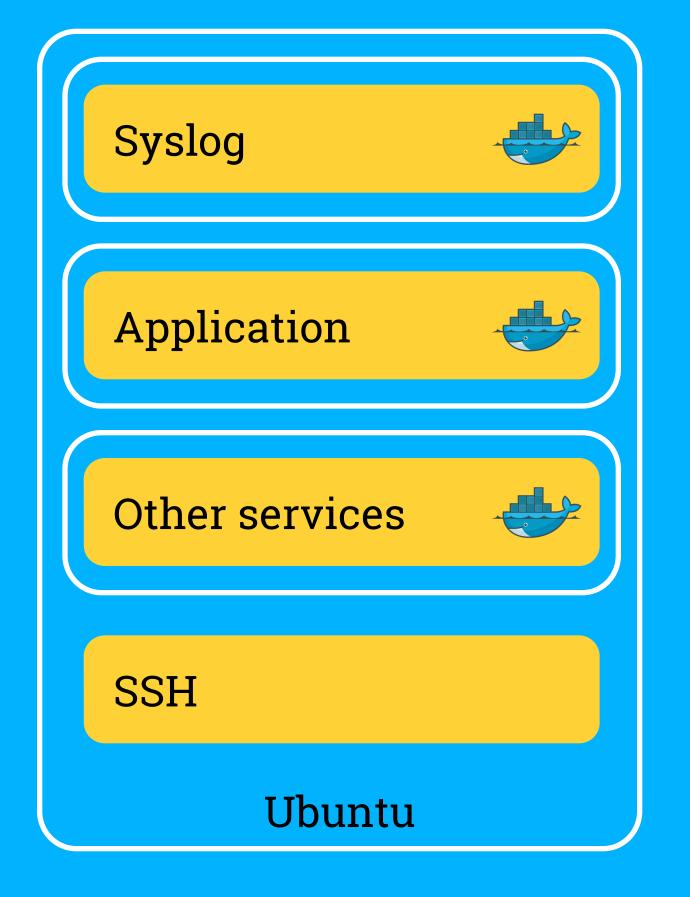
```
frontend main_ssl
  bind *:443 ssl crt /etc/pki/tls/private/dockerintegration.pem no-sslv3
  mode http
  maxconn 1000
  default_backend app
```

DOCKERHOST

OLD

Syslog **Application** Other services SSH Ubuntu

VS





DATABASE AS SERVICE



LOGGING, MONITORING AND ALERTING



LOGGING, MONITORING AND ALERTING













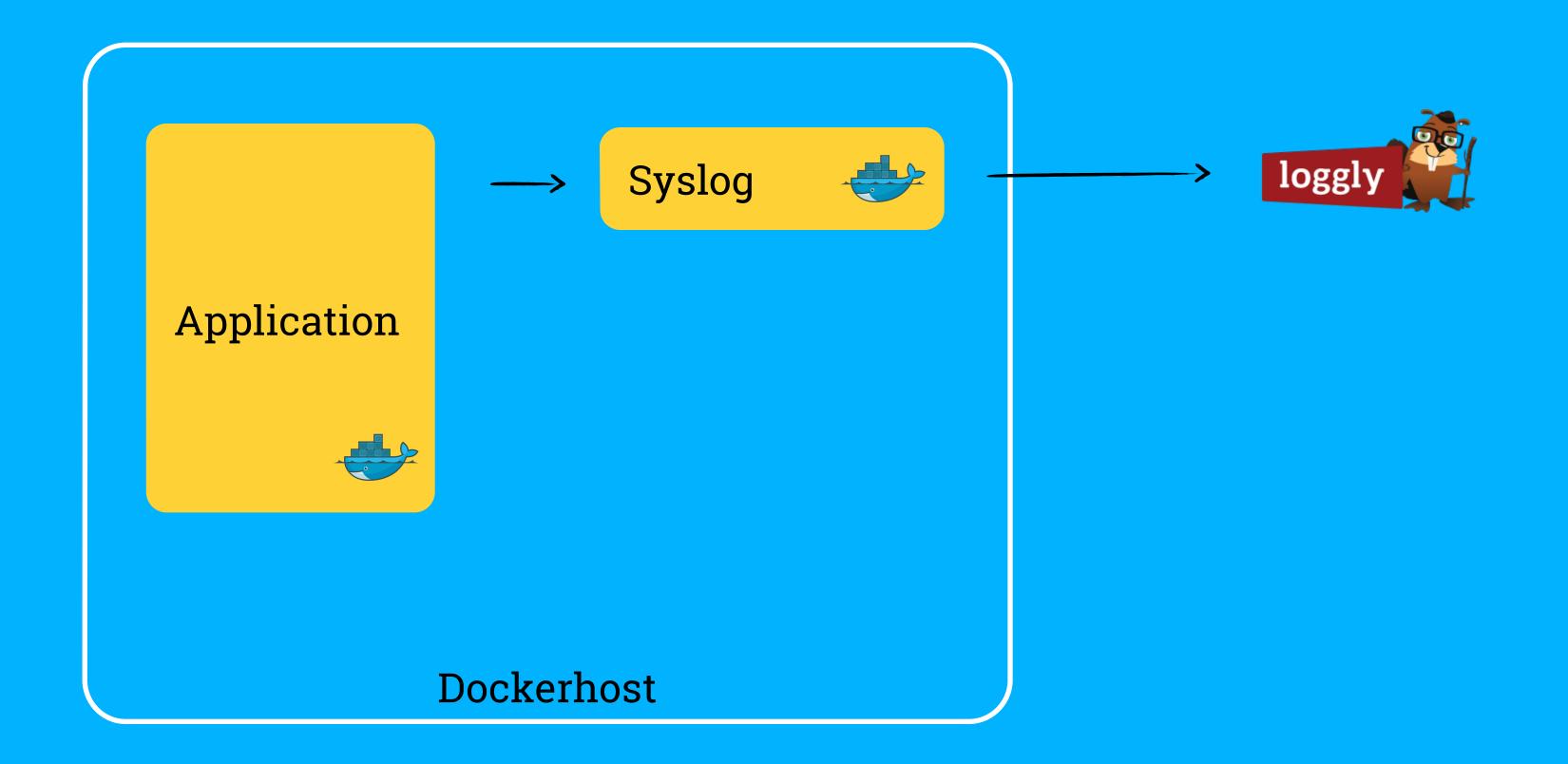


StatsD

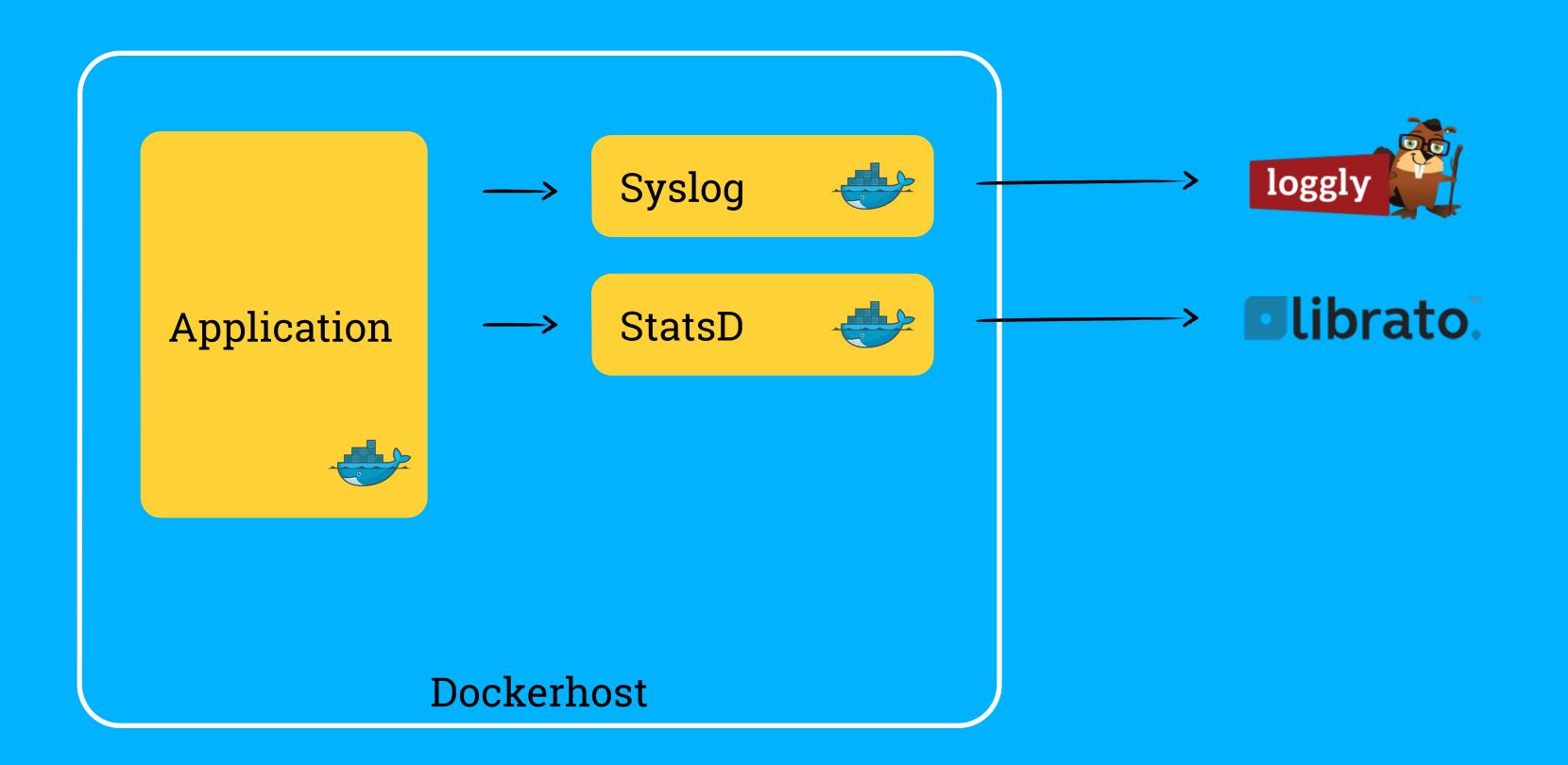




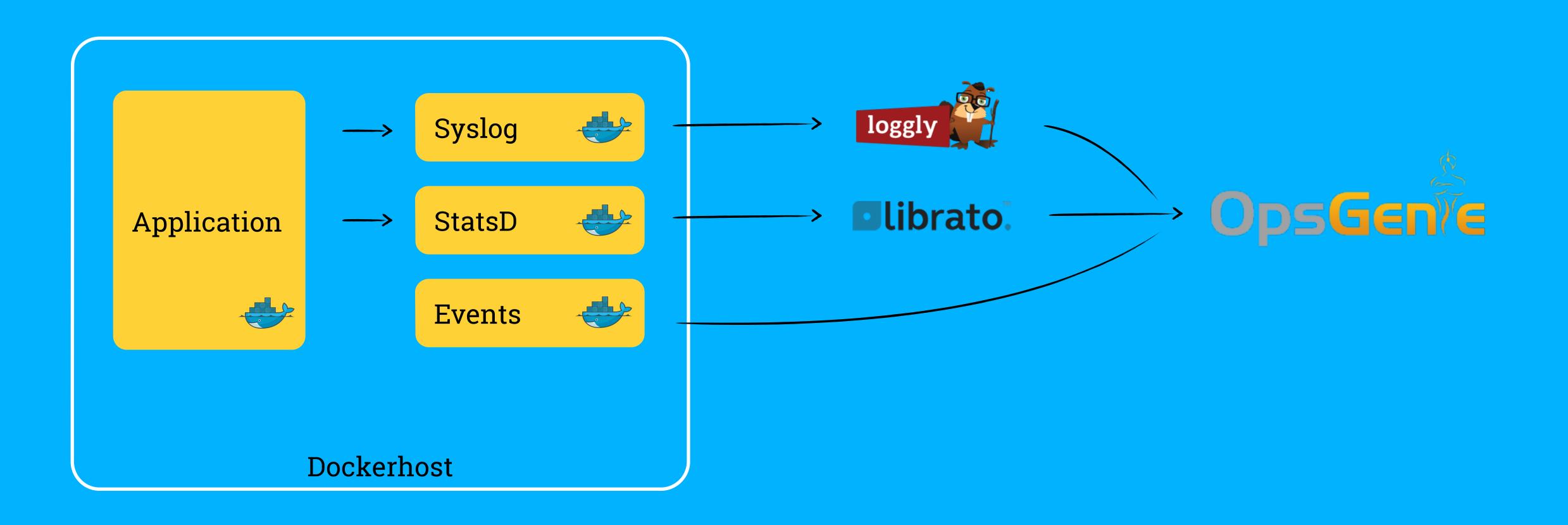
LOGGING



MONITORING



ALERTING



APPLICATION VERSIONING



APPLICATION VERSIONING

OLD git commit push

NEW git commit push

push

push

push



IMAGE VERSIONING

zorgdomein/syslog:8.9-2

zorgdomein/ta:20150520_1830

zorgdomein/te:20150520_1736



APPLICATION VERSIONING

zorgdomein/syslog:8.9-2

zorgdomein/ta:20150520_1830

zorgdomein/te:20150520_1736

ZorgDomein Application C_20150520_1830



ENVIRONMENT VERSIONING

zorgdomein/syslog:8.9-2

zorgdomein/ta:20150520_1830

zorgdomein/te:20150520_1736

ZorgDomein Application C_20150520_1830

config.yml

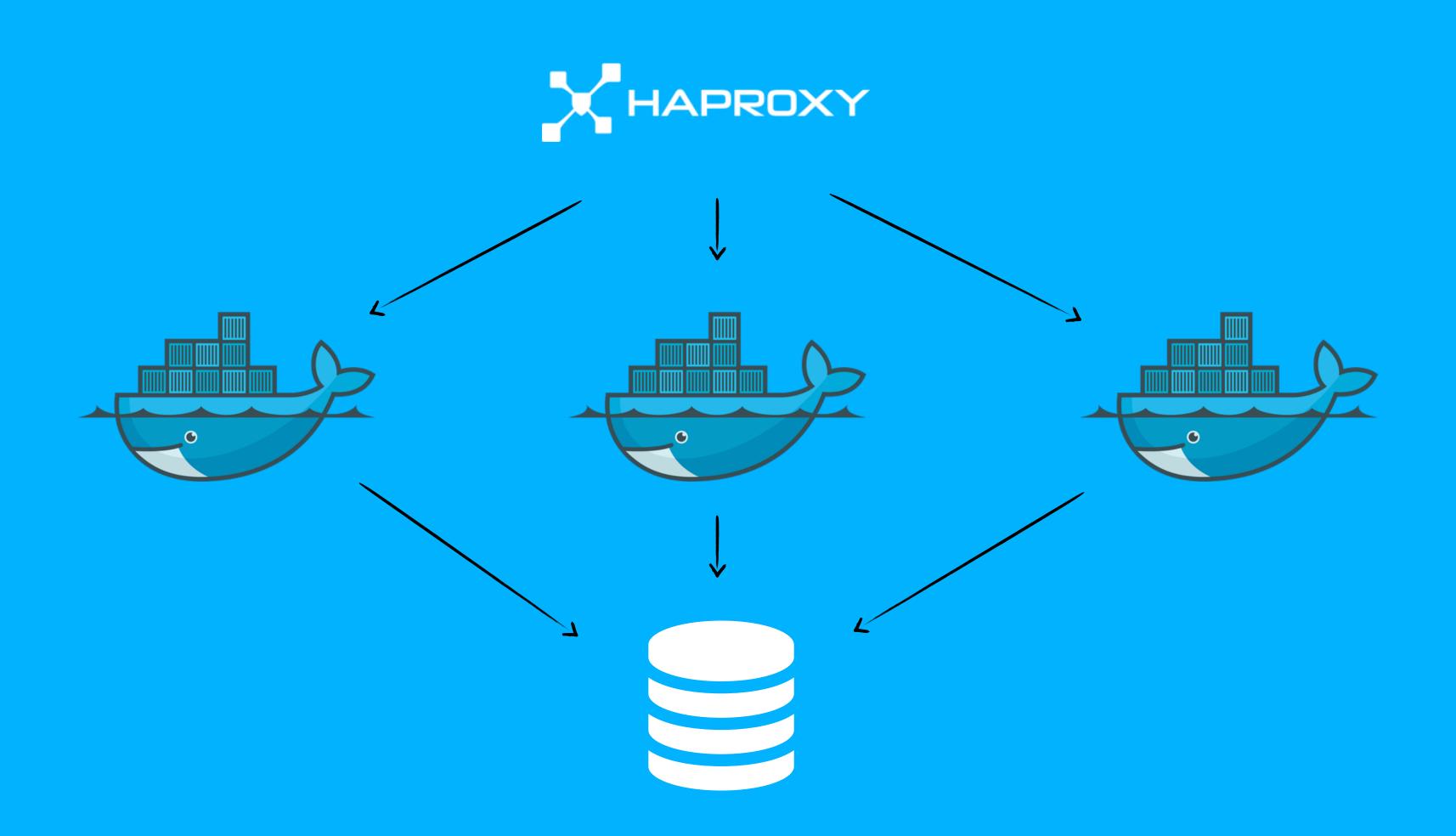
librato_flush_interval: 60 librato_token: "3847hwd"

librato_user: "..."

tc_db_user: "..."

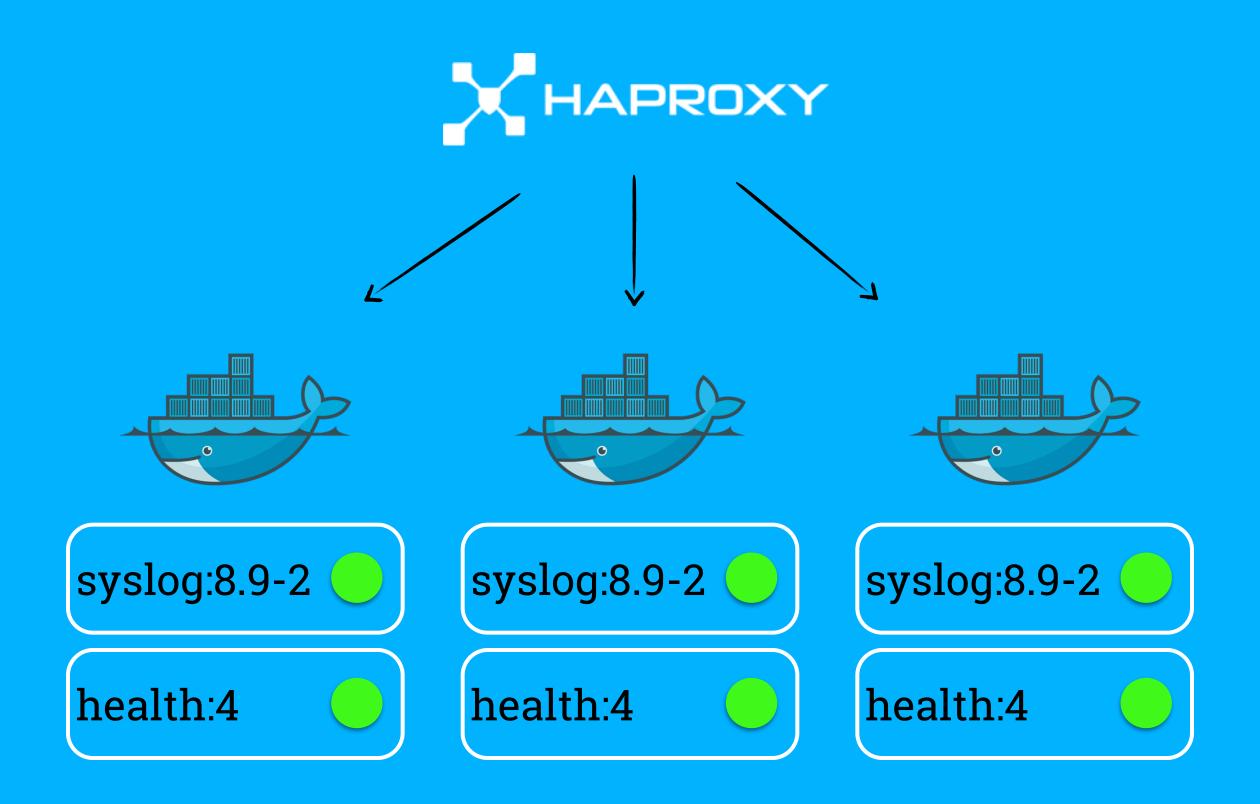
tc_db_host: "...zorgdomein.nl"

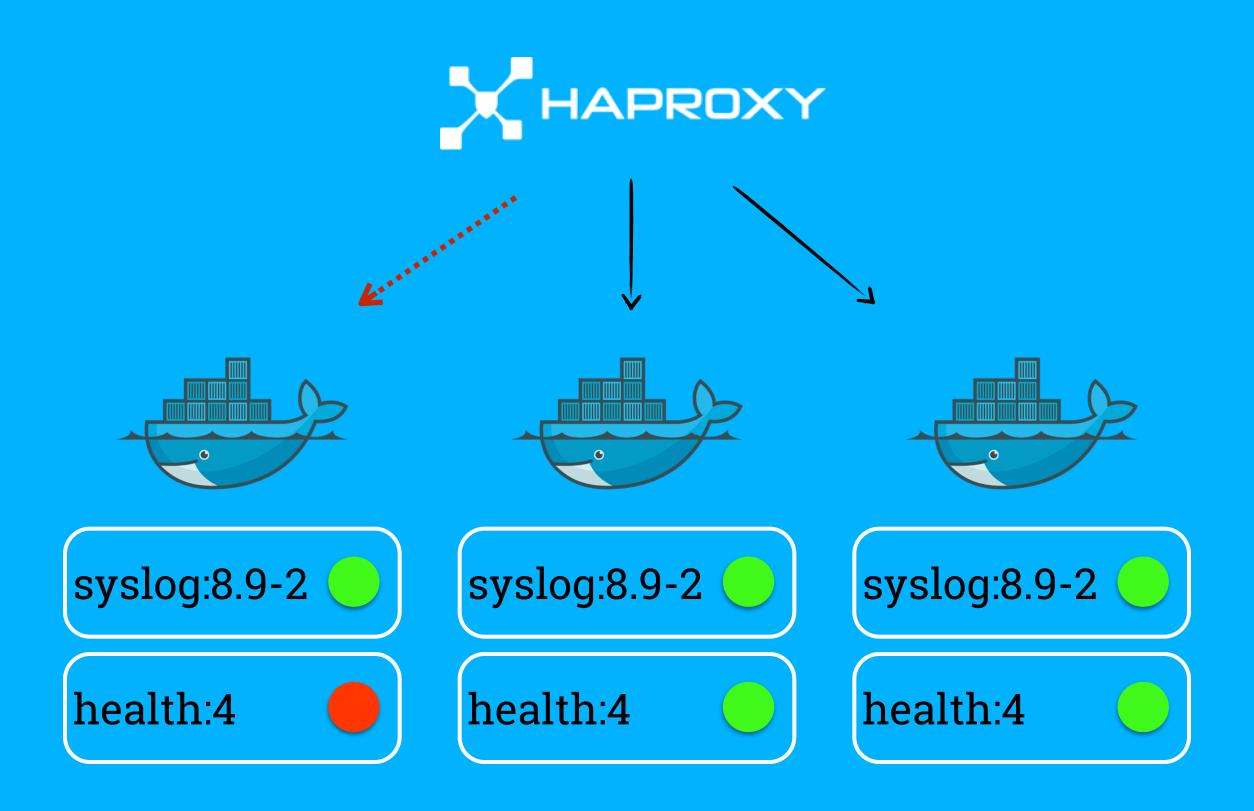




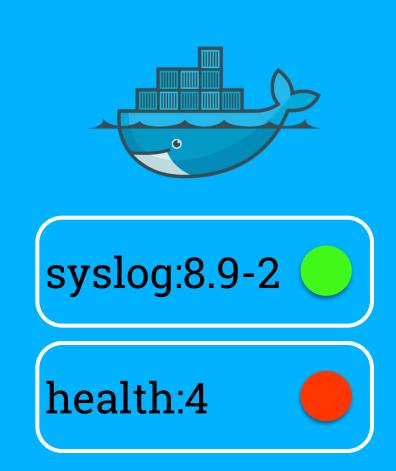
ZERO DOWNTIME DEPLOYMENT WITH ANSIBLE

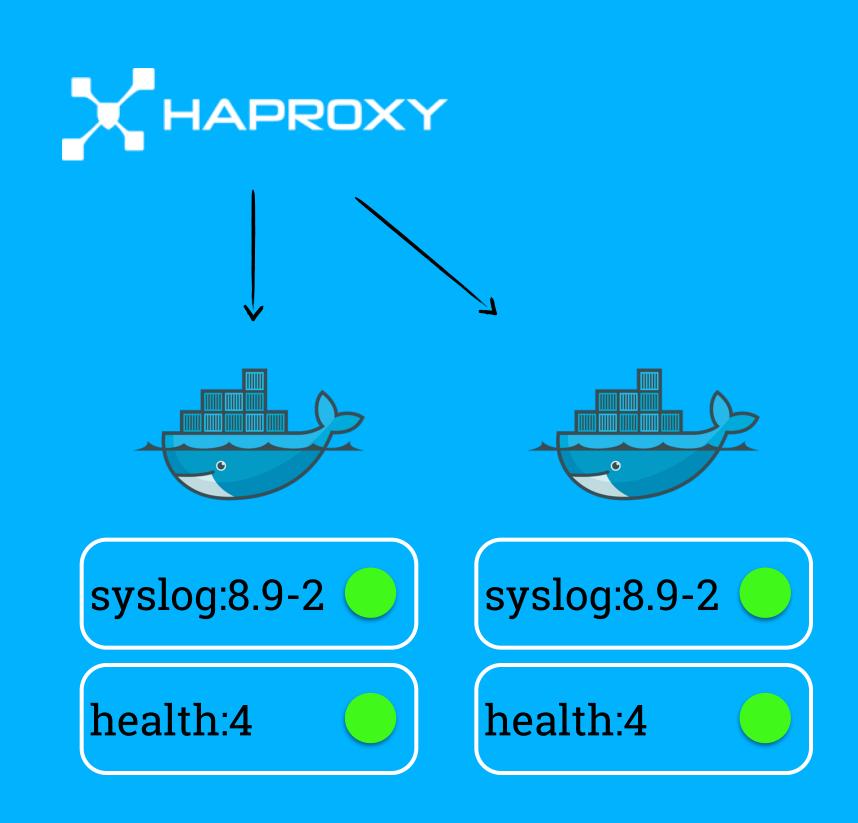
```
- include: util/docker_update.yml
 vars:
    name: 'docker-stats'
   image: 'zorgdomein/docker-stats'
   image_version: "{{ version }}"
   container_state: "{{ state | default('present') }}"
    args:
      -v /var/run/docker.sock:/var/run/docker.sock
      -e 'STATSD_HOST={{ statsd_hostname }}'
      -e 'INTERVAL={{ stats_interval }}'
```



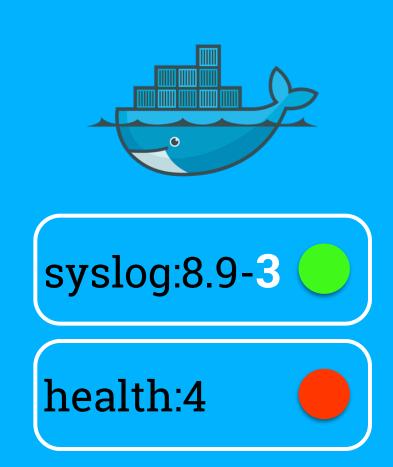


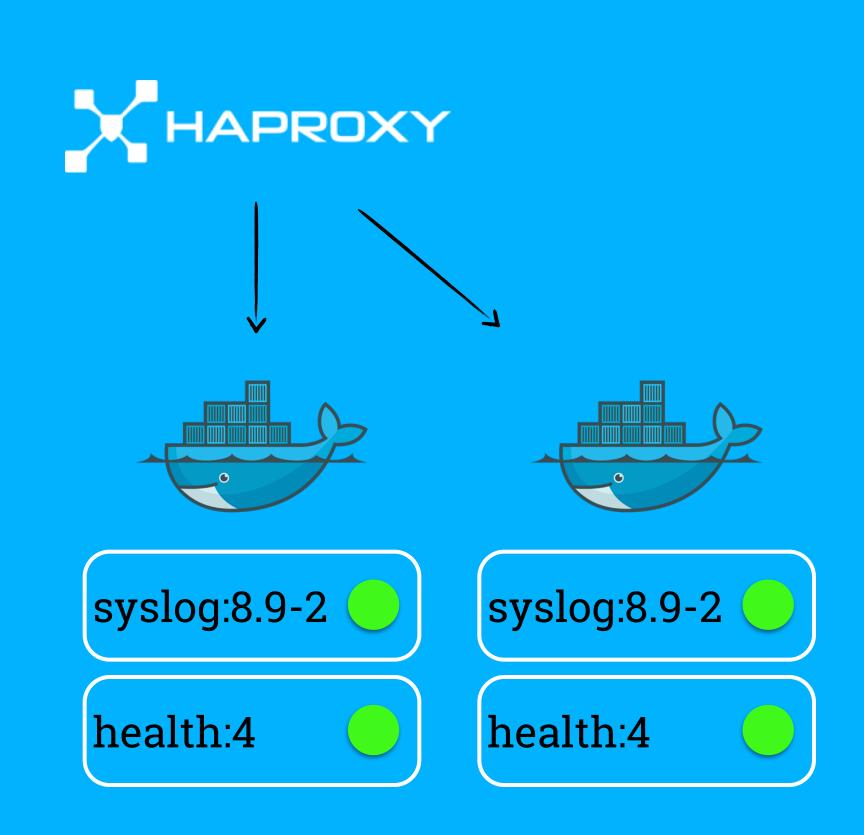


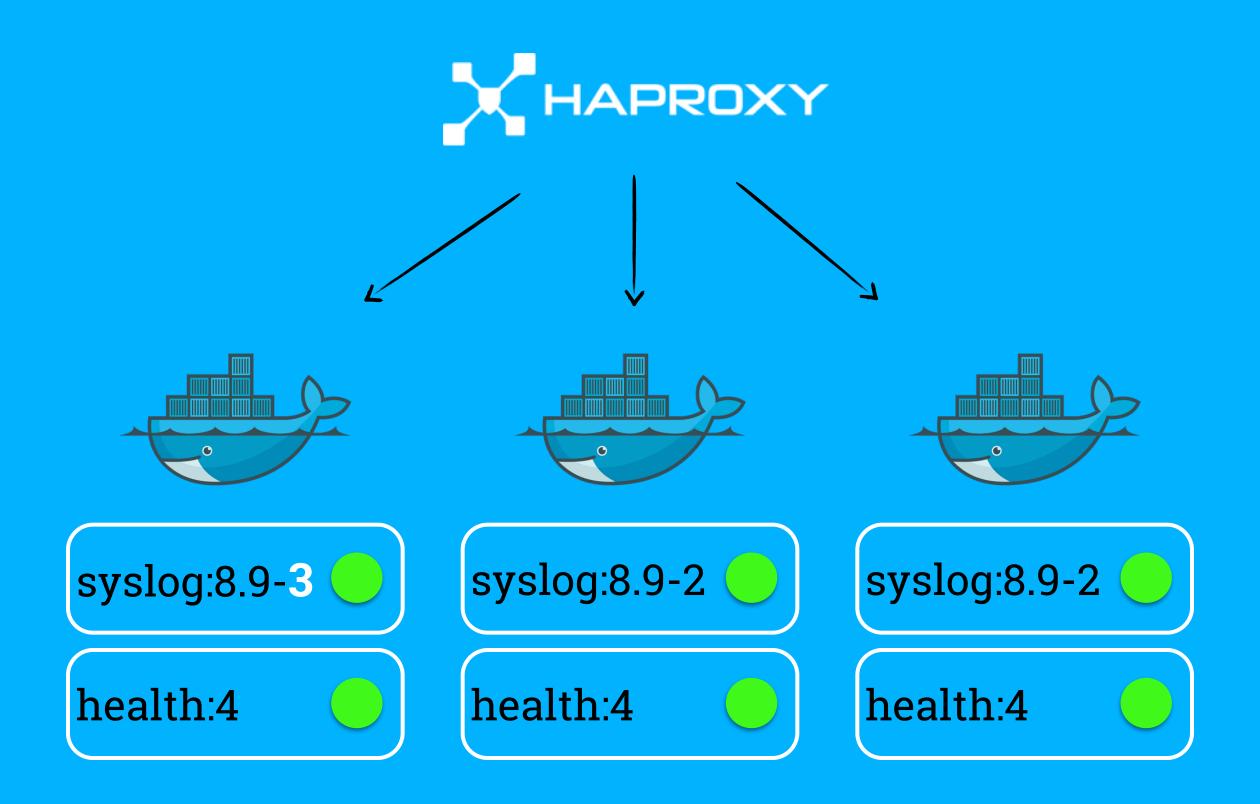


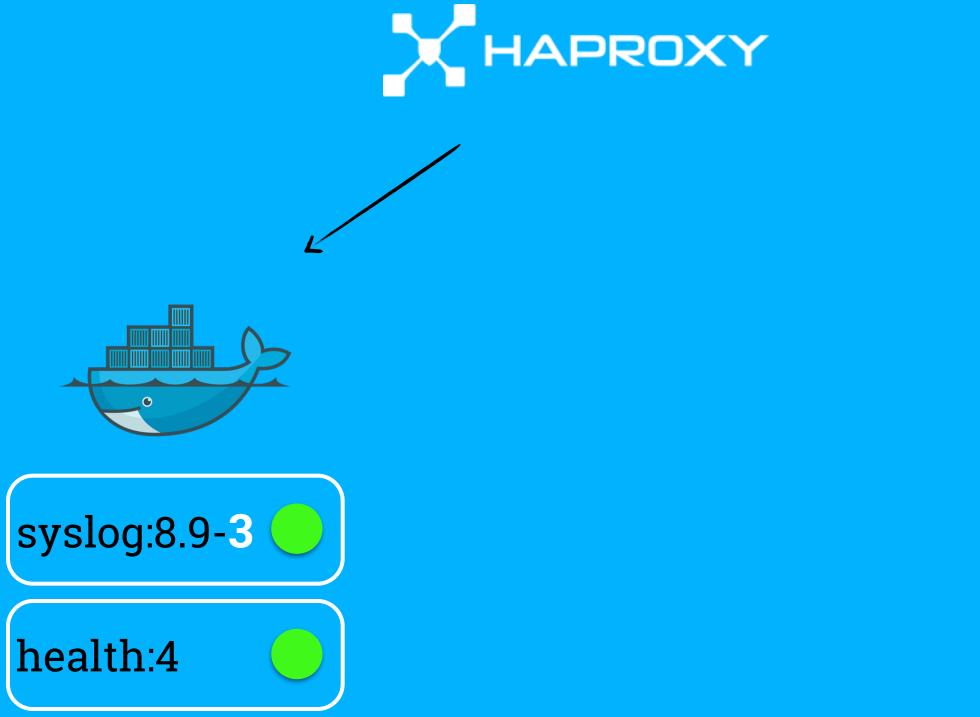


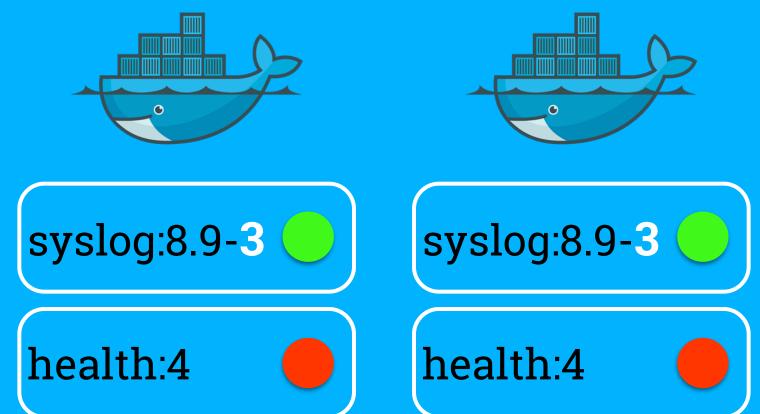




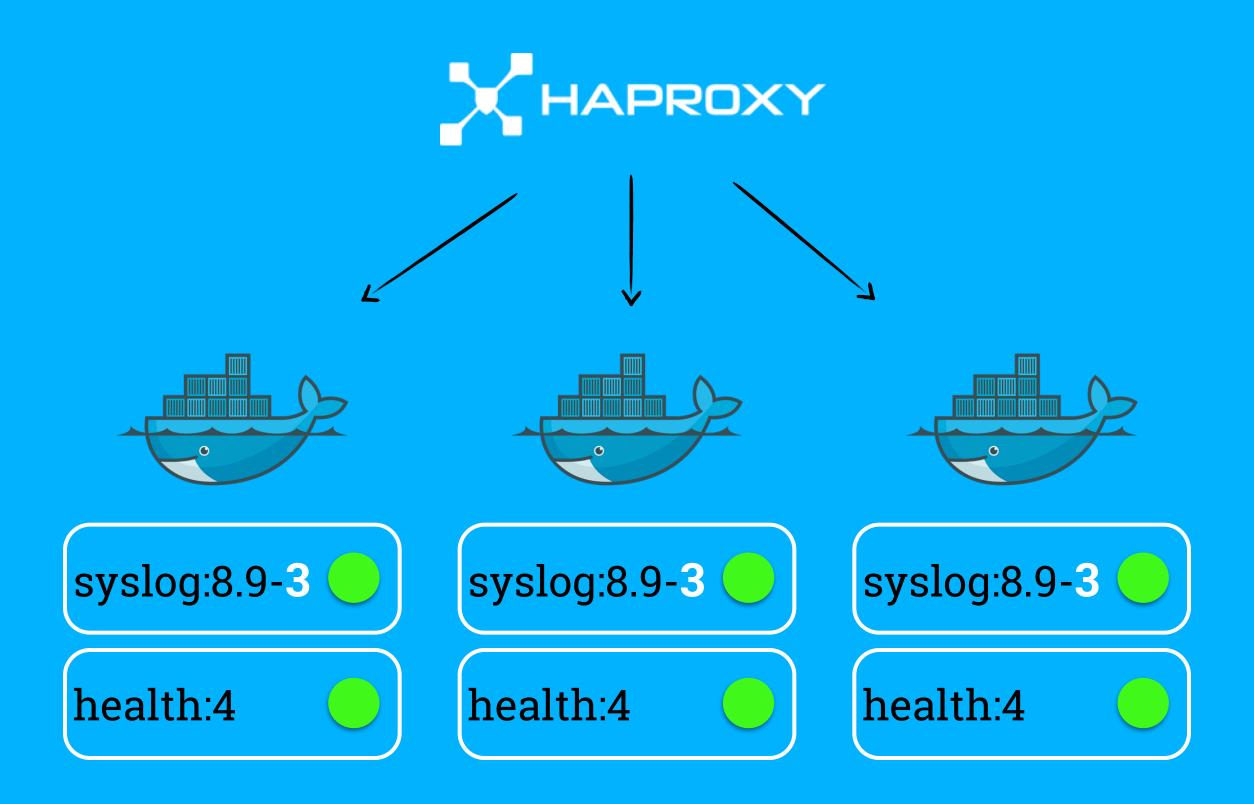














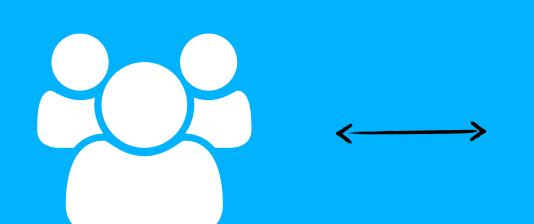
SECURITY



SECURITY



DOCKERAPI

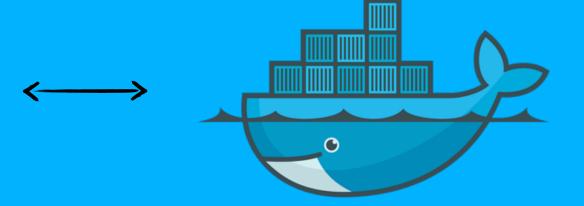


Allow

run stop stats

events

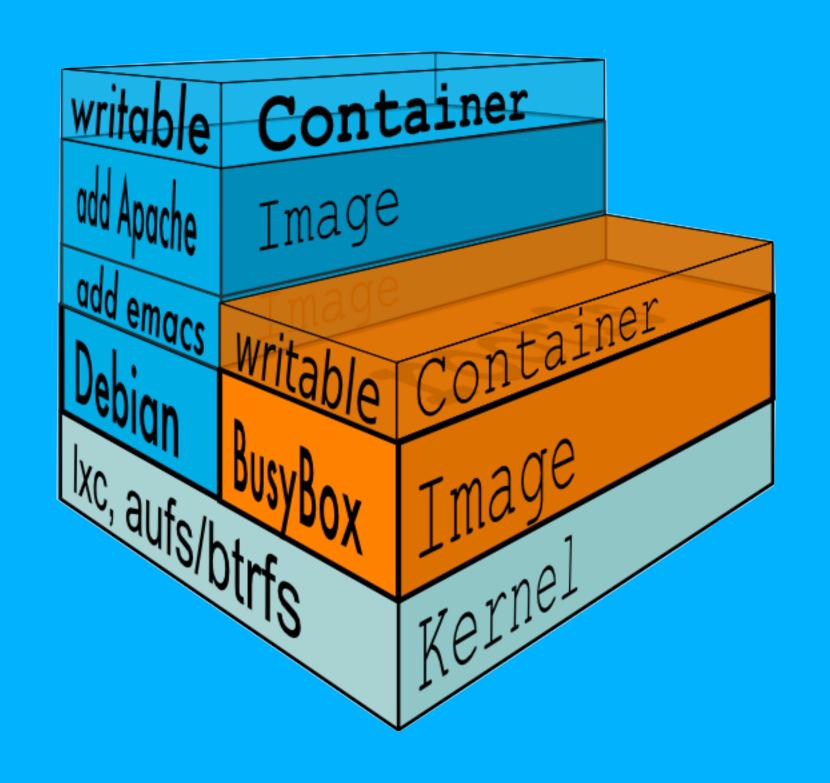
Filter inspect



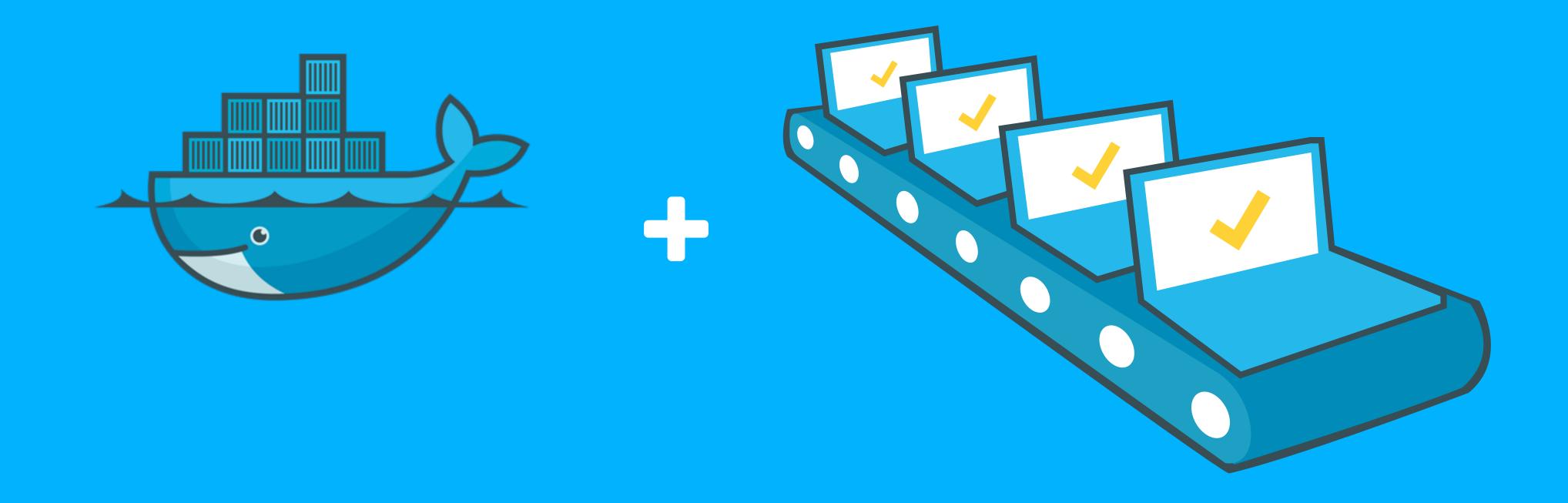
DOCKER API - FILTER EXAMPLE

DOCKER IMAGE MANAGEMENT

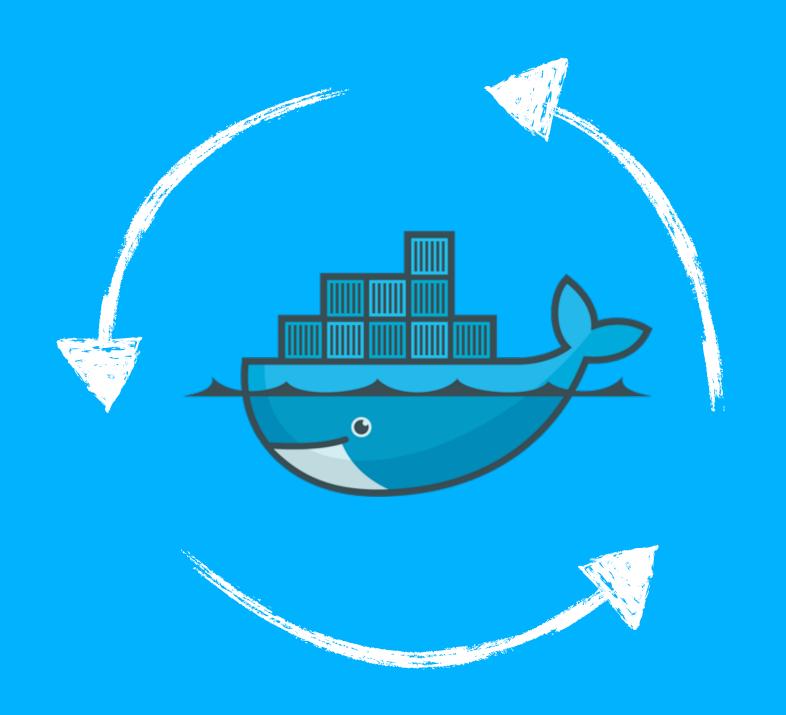
Image	Size MB
Debian + Java	450
BusyBox + Java	300
Go	6



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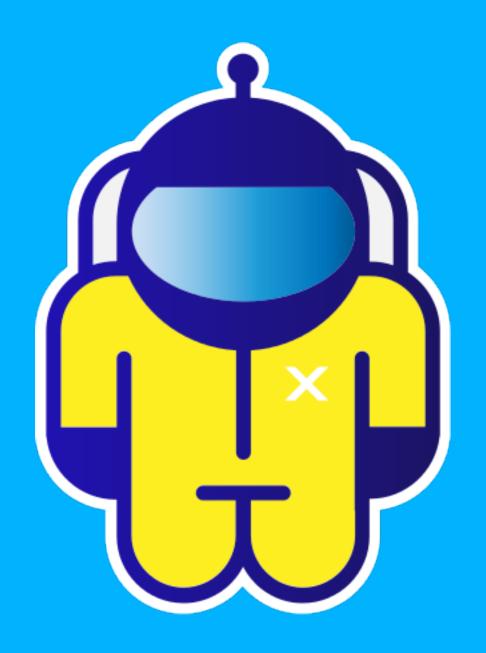
Application versioning

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CARGONAUTS



THE DATA CENTER AUTOMATION EXPERTS

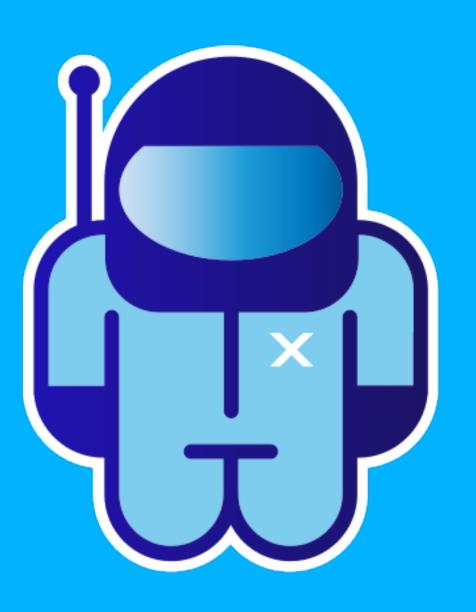
WHAT WE DO



Automate, automate, automate!

Code the infrastructure!

Containerize all the things!





Armin Čoralić armin@cargonauts.io

