







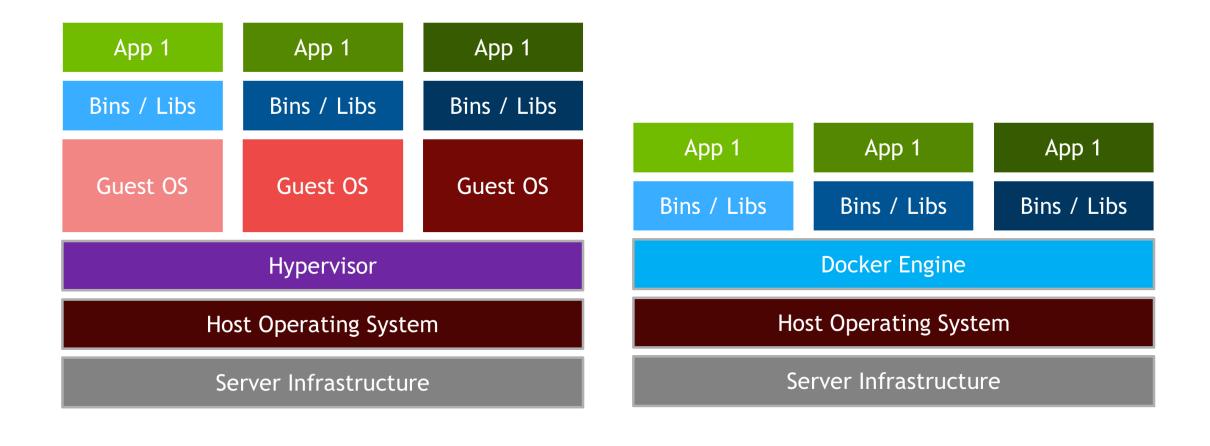
Docker Einführung

Compass Security ivan.buetler@compass-security.com

Docker Eco System

Virtual Machines versus Containers

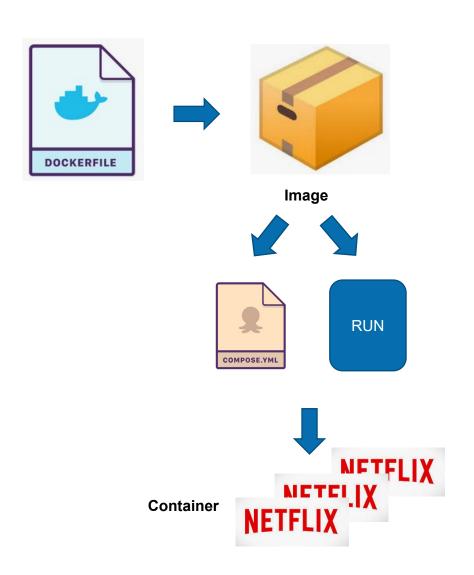
VIRTUAL MACHINES



compass-security.com 3

CONTAINERS

Dockerfile => Docker Image => Docker Container



Entwickler erstellt ein Dockerfile (oftmals Dockerfile und einige dazugehörige Dateiene)

docker build -t hackinglab/alpine-gotty-root

Mit «docker build» wird aus einem Dockerfile ein Image

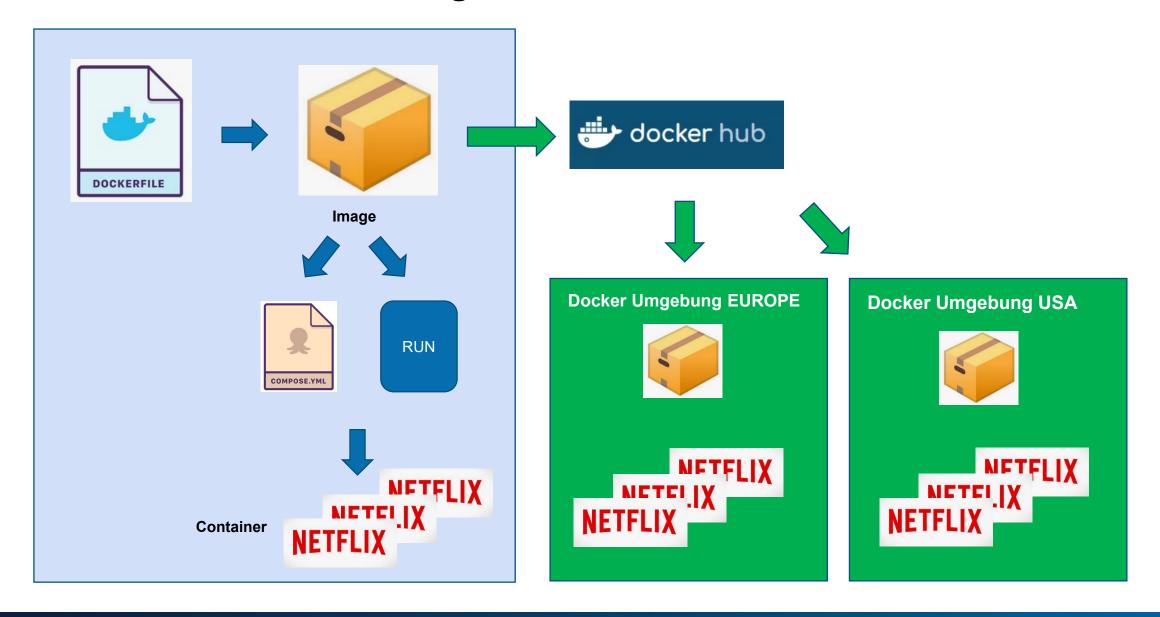
Ein Image das «gebootet» wird, nennt man Container

Es gibt viele Wege um eine Image zu booten

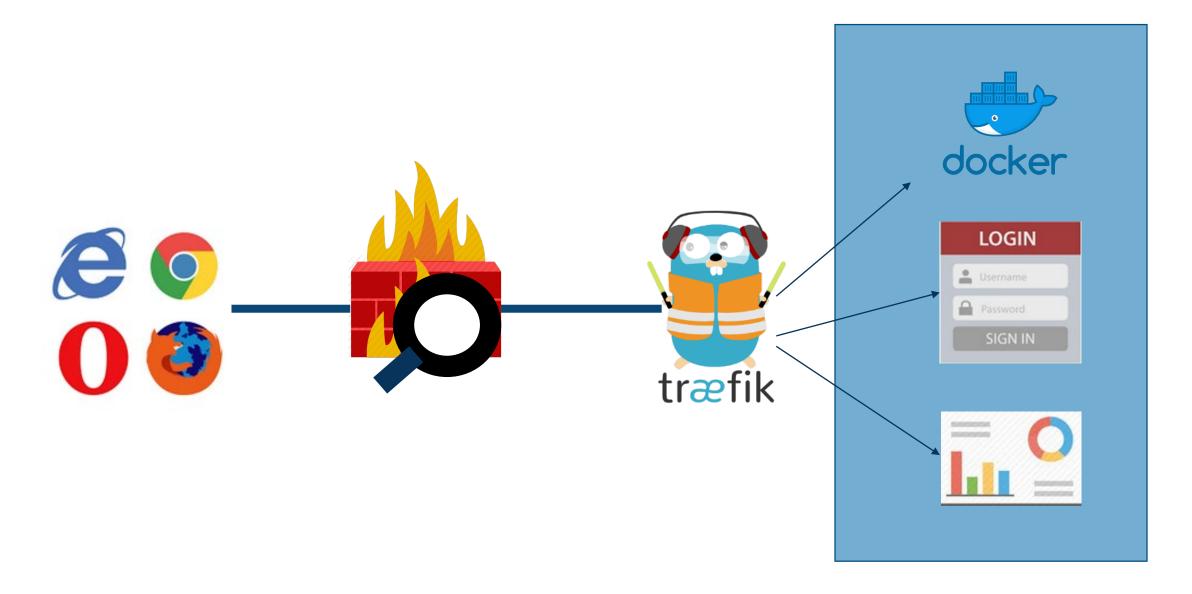
Die einfachsten 2 Varianten für das «booten»

- docker run hackinglab/alpine-gotty-root
- docker-compose up -d

Dockerfile => Docker Image => Docker Container

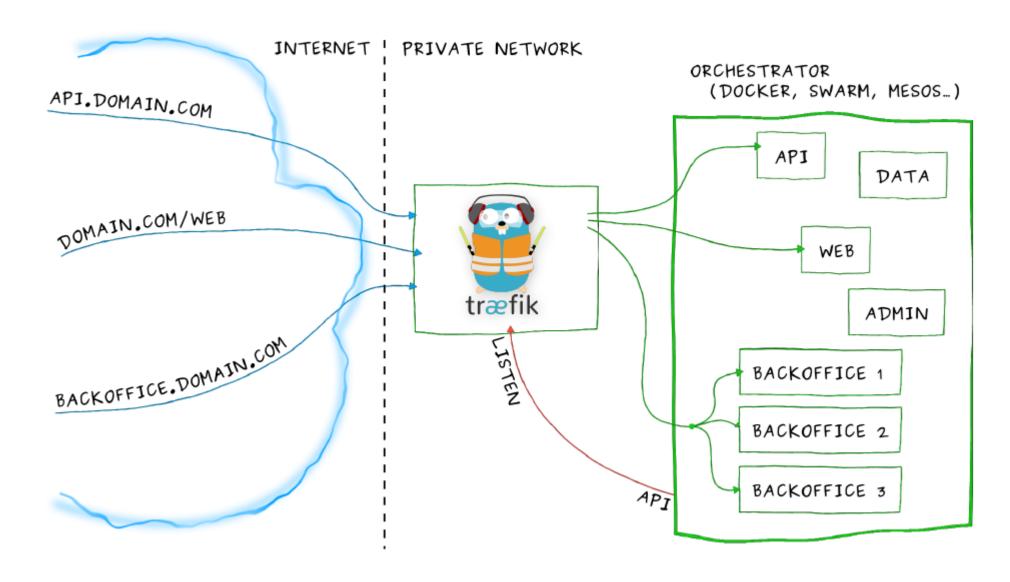


OnDemand Docker Services



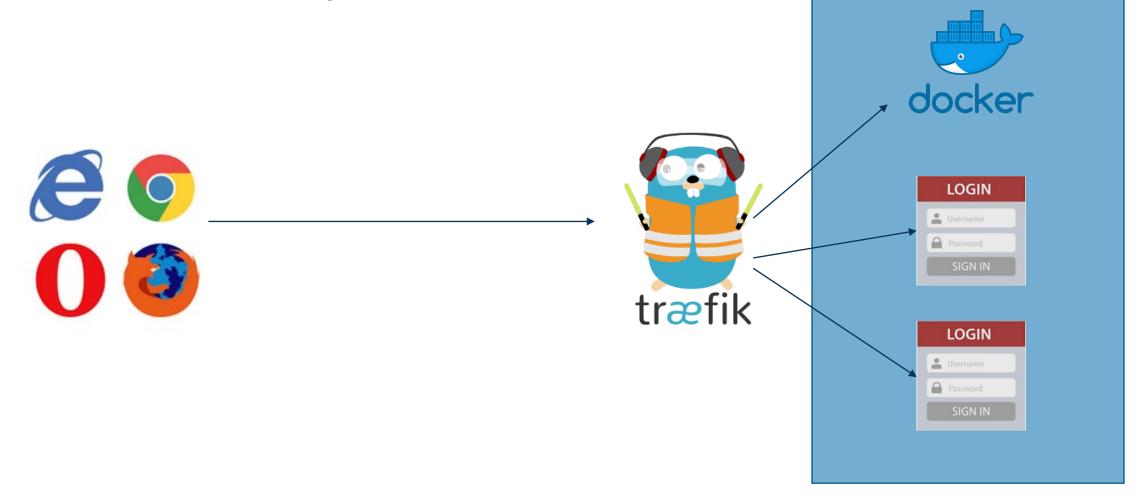
Traefik Load Balancer

Microservice Architecture

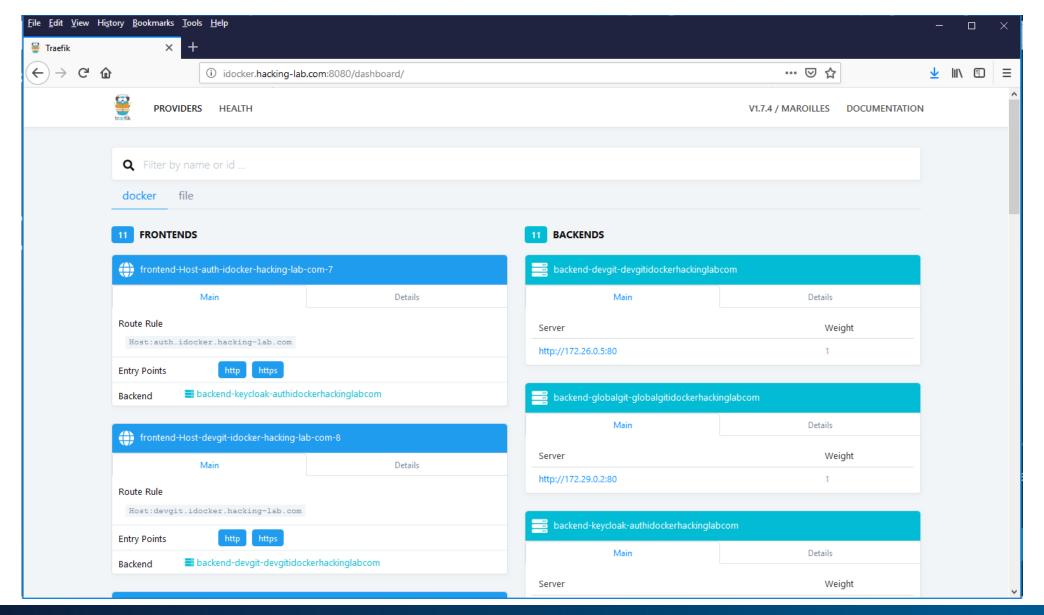


Hacking-Lab Test Suite

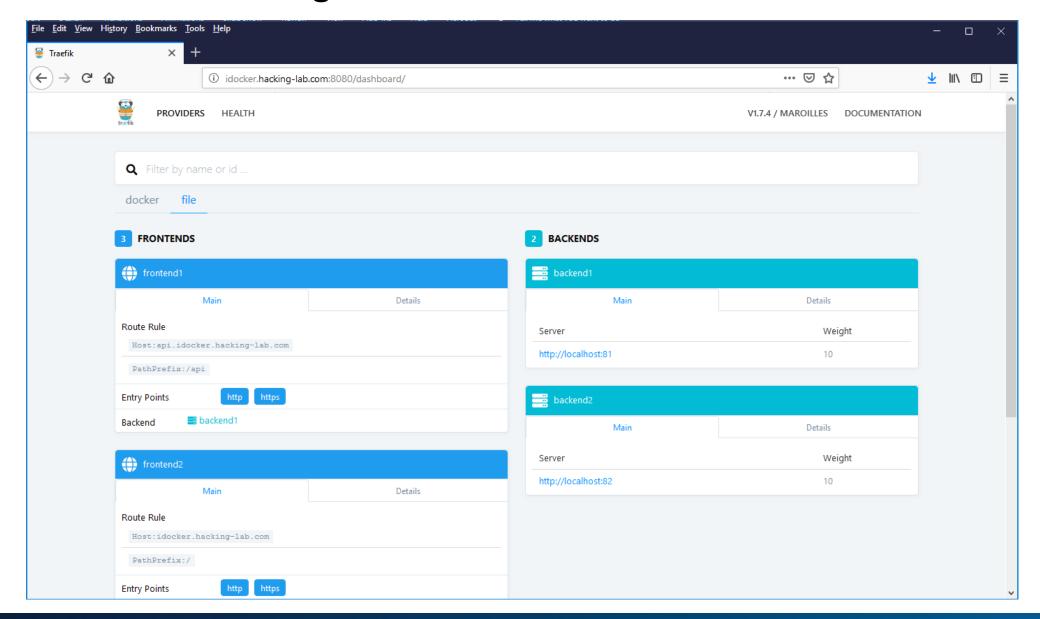
Wildcard SSL Certificate *.idocker.hacking-lab.com New Routes without restarting the service



Traefik Status Page - DOCKER



Traefik Status Page - FILE



Conclusion

Paradigm shift into the direction of "Microservice Architectures"

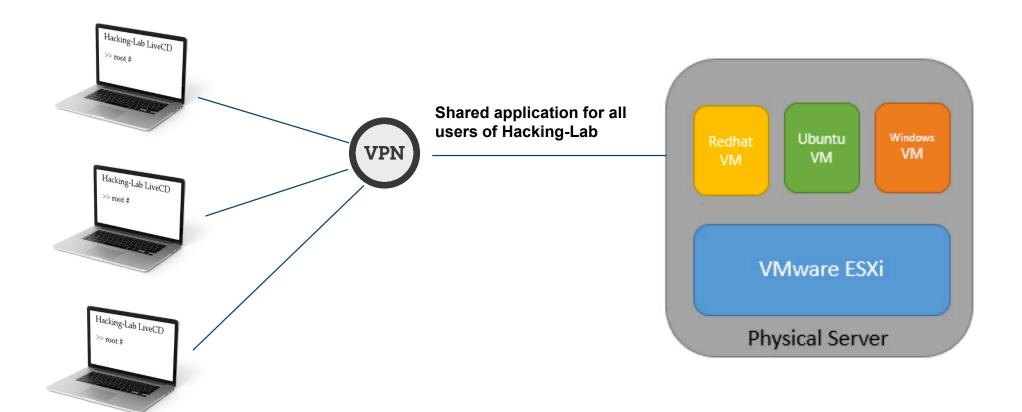
Small apps together shape the big application

We will face more and more RESTful service architectures

Docker & Hacking-Lab 1.0

Appendix

How we deployed vulnerable services in the past (and still do...)



How we deploy vulnerable services today

