

e DAY:16

UNTERNEHMEN SICHERHEIT

Im Spannungsfeld von Mensch
und Technik

Do, 3. März 2016



Fabian Kromer
DevOps, Micro Services & Docker
<http://www.kromit.at>



A collection of icons representing DevOps practices, including a gear, a Wi-Fi signal, a server rack, a monitor, a database cylinder, and a bar chart.

DevOps

A network diagram with various colored nodes (red, blue, orange, purple) and connecting lines, symbolizing a distributed system or microservices architecture.

**Micro
Services**

An aerial view of a busy container port with numerous yellow gantry cranes and stacks of colorful shipping containers (blue, red, green, orange).

Docker



Agile



DevOps

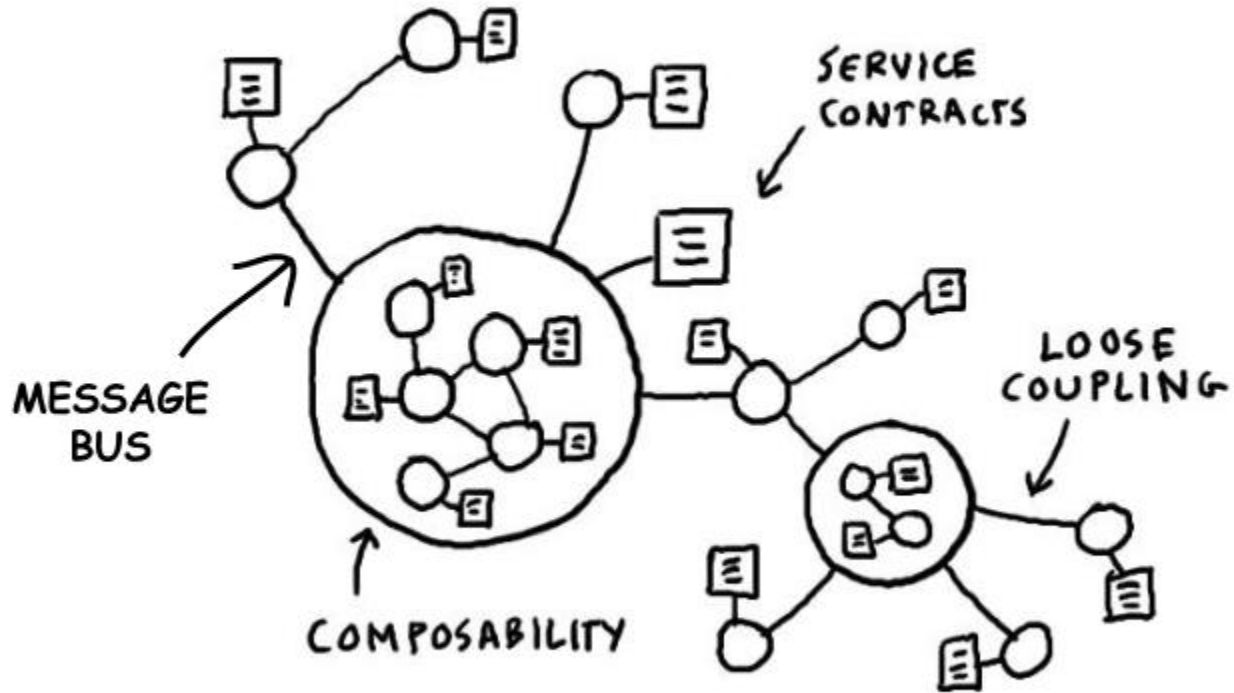


Waterfall





MICRO SERVICES



1990s and before
Monolithic Applications
(tight coupling)



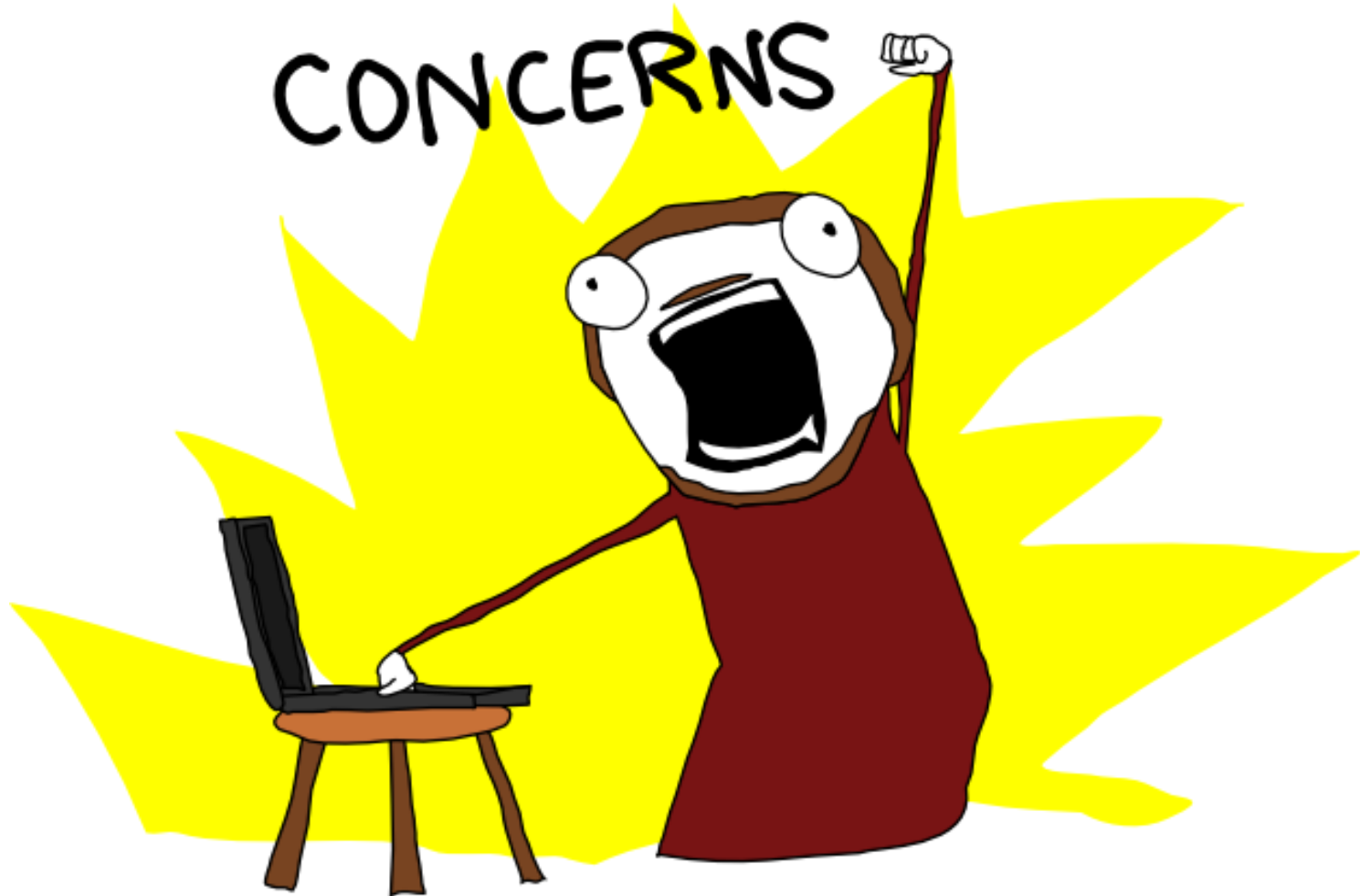
2000s
Service Oriented Architecture
(loose coupling)



2010s
Micro Services
(Decoupled)



SEPARATE ALL THE
CONCERNS

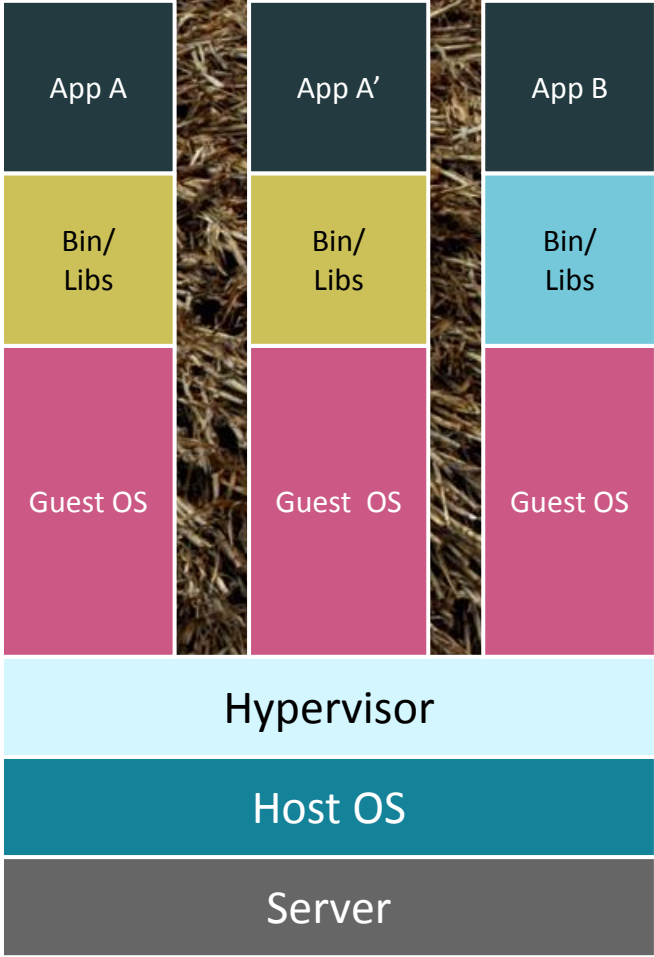
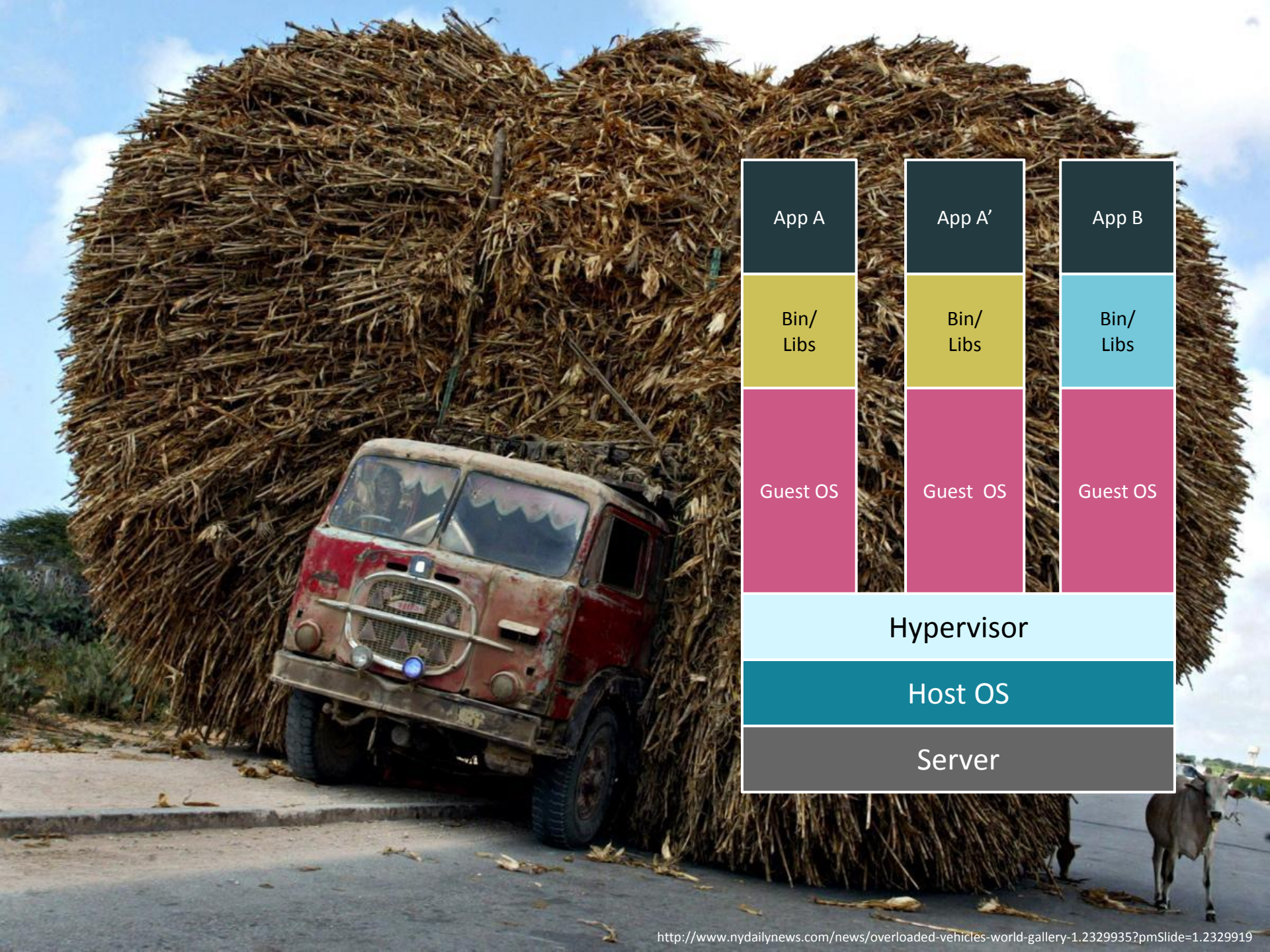


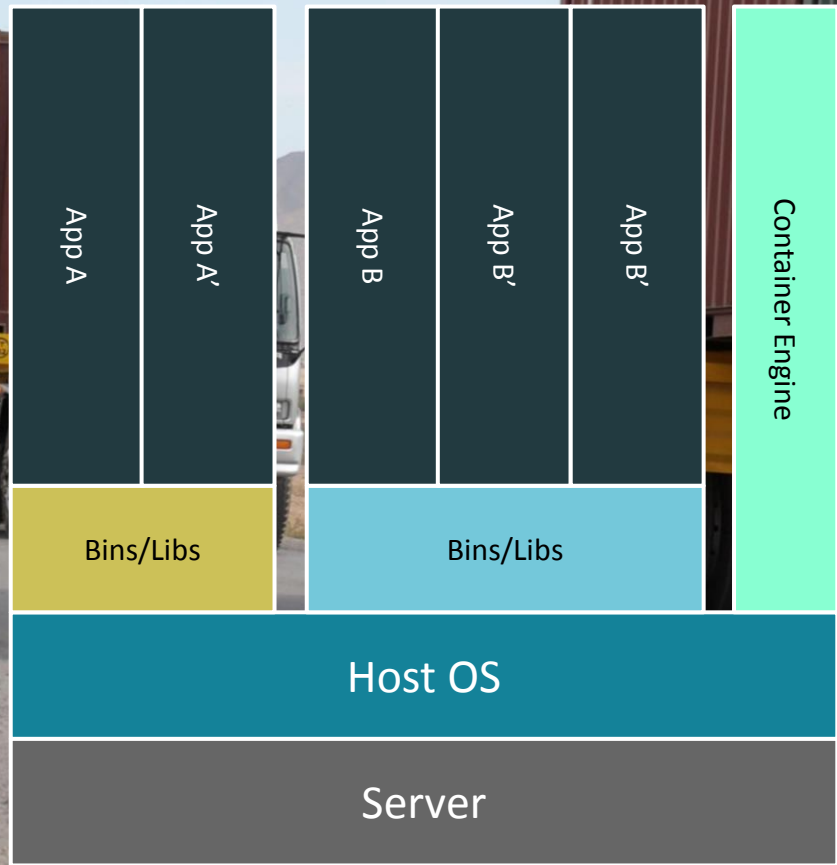


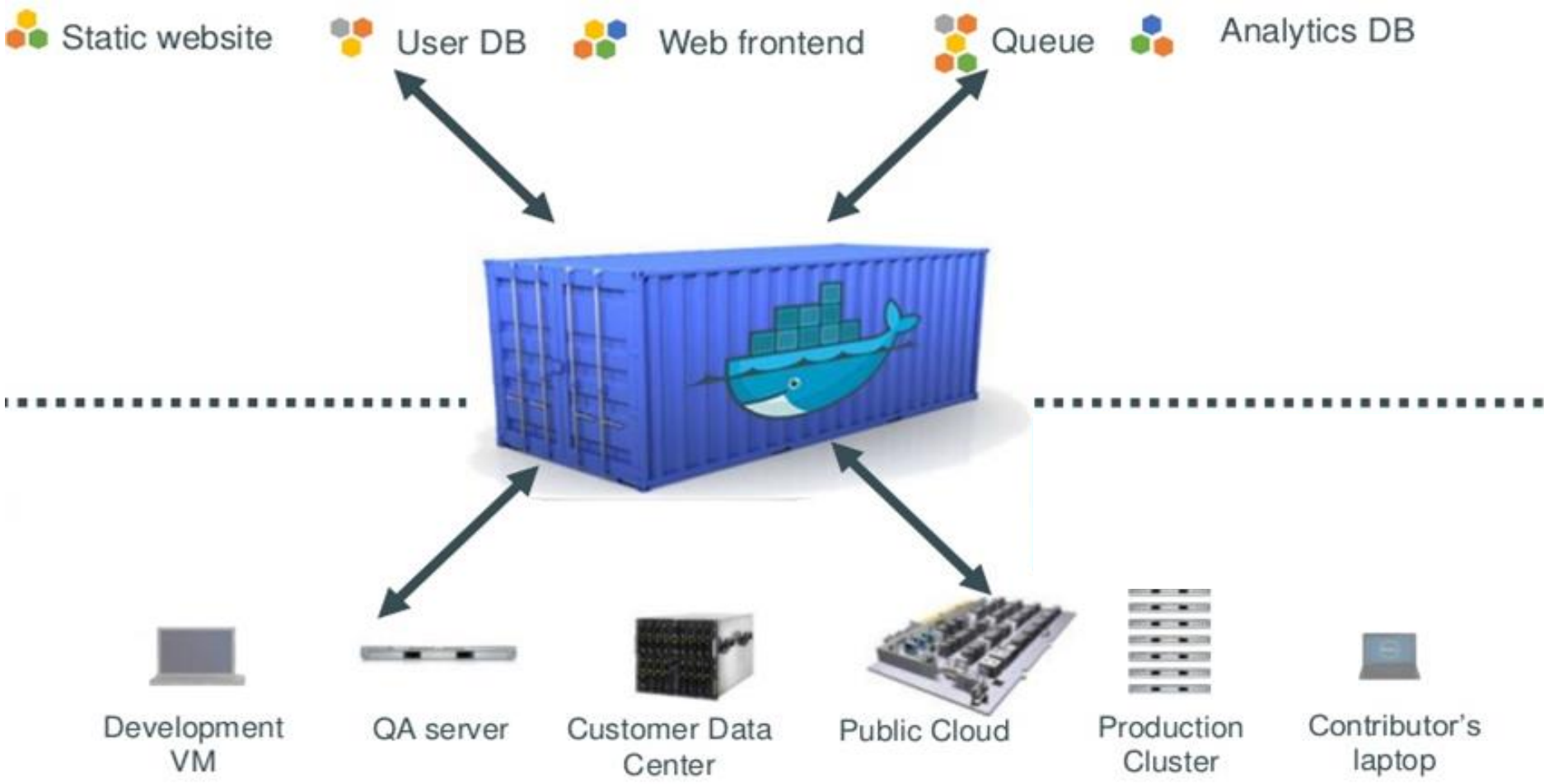
Build, Ship, Run

An open platform for distributed applications
for developers and sysadmins







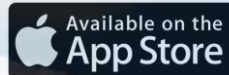


Case Study



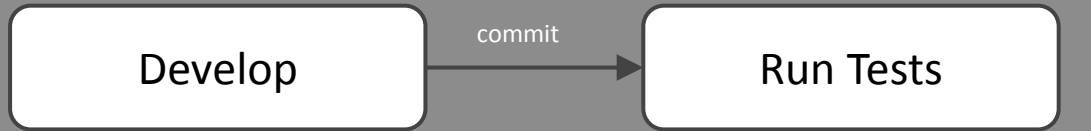
Die Bonierer

Ihre Registrierkasse in der Cloud
<https://bonierer.at>



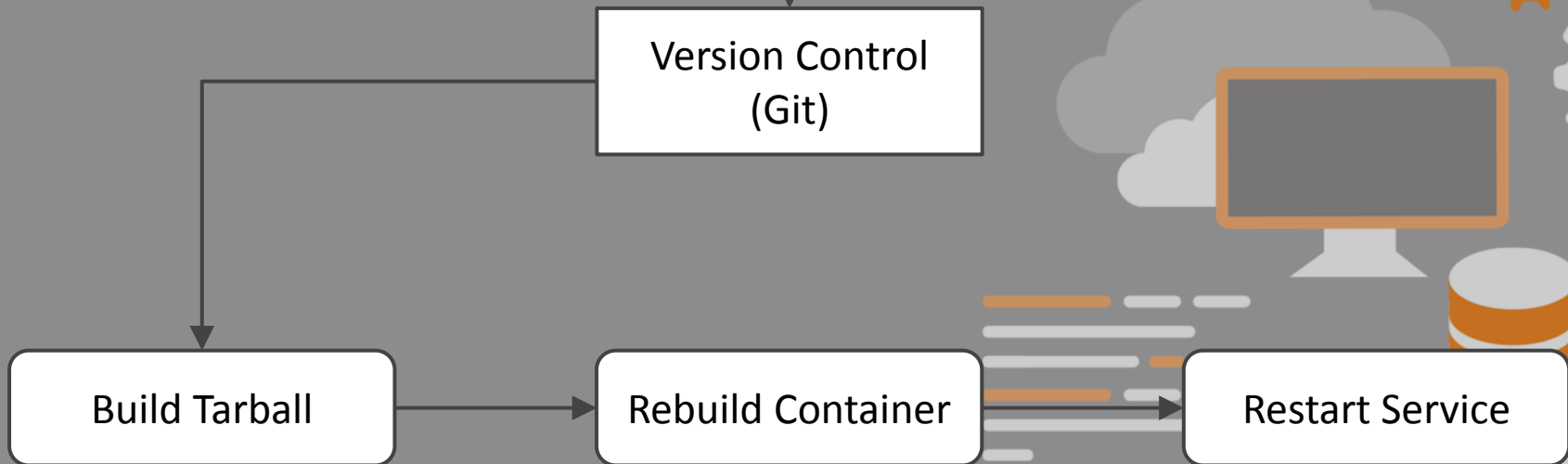
Continuous Integration

Local Dev

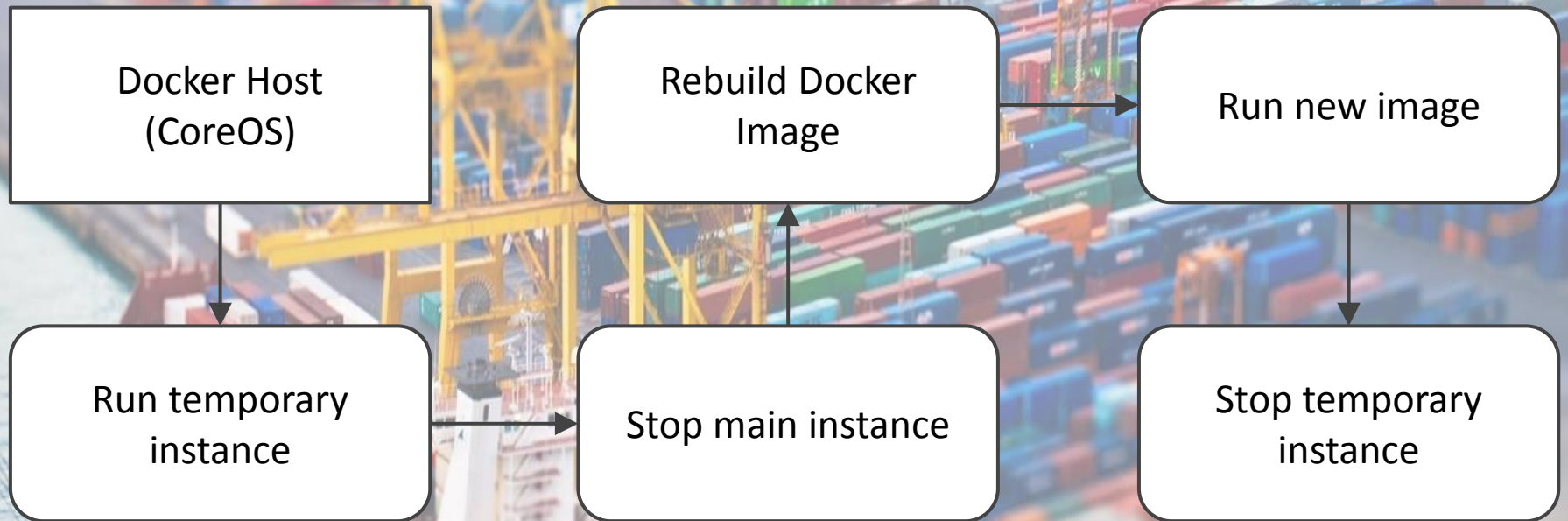


Push Master Branch

Server Ops



Zero downtime Deployments



SERVER SIZING

2.2/1.75
GHz/GB

DOCKER CONTAINERS

3 container

AVG. DEPLOYMENTS

2 per week

AVG. DEPLOYMENT DOWNTIME

869 ms





AVG. RESPONSE TIME

62.5 ms

USER LOAD

25 users

REQUESTS PER SEC

67 Req/s

FAILED REQUESTS

0 of 4041 total



STATS

AVG. RESPONSE TIME

2.1 sec

USER LOAD

200 users

REQUESTS PER SEC


230.4 Req/s


FAILED REQUESTS



0 of 27652 total




That's all Folks!

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