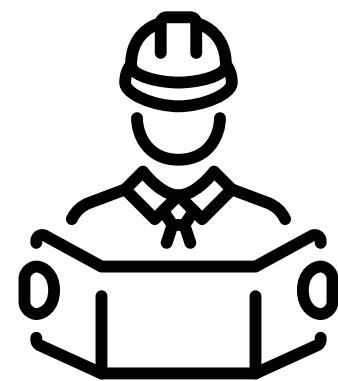
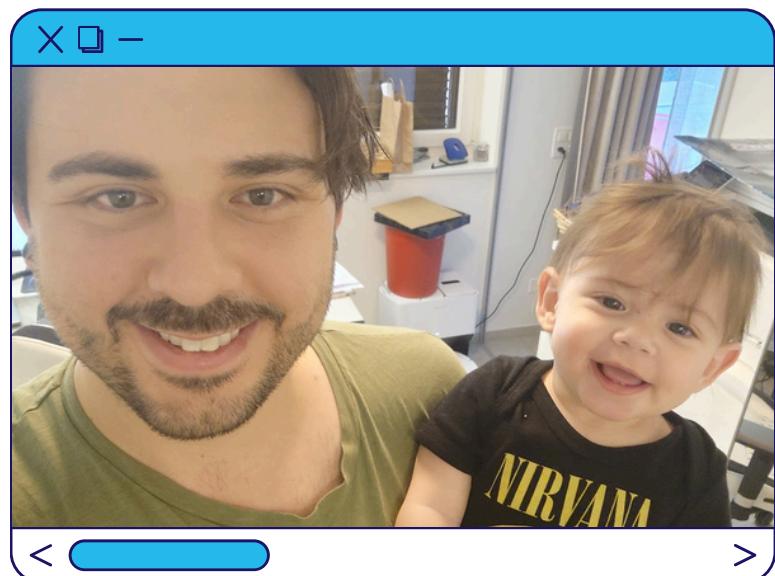
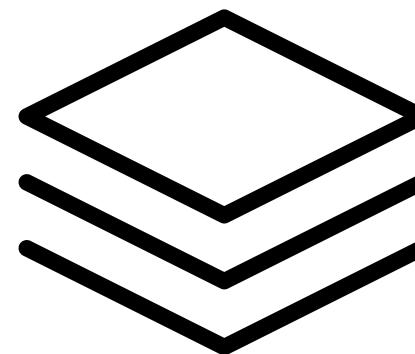


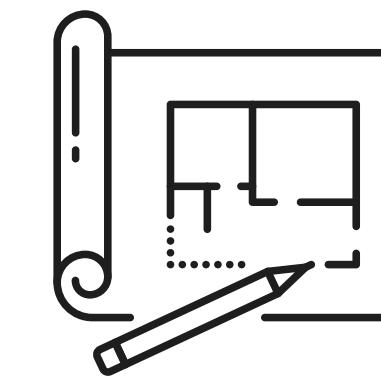
Andreas Deicha - Vadozner und Balzner



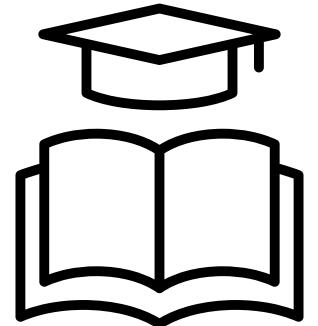
Software Entwickler
seit 2017 (erster Job)



Fullstack
.Net Core
Spring Boot
Ruby on Rails
Vue.js
Angular
WPF



Architekt

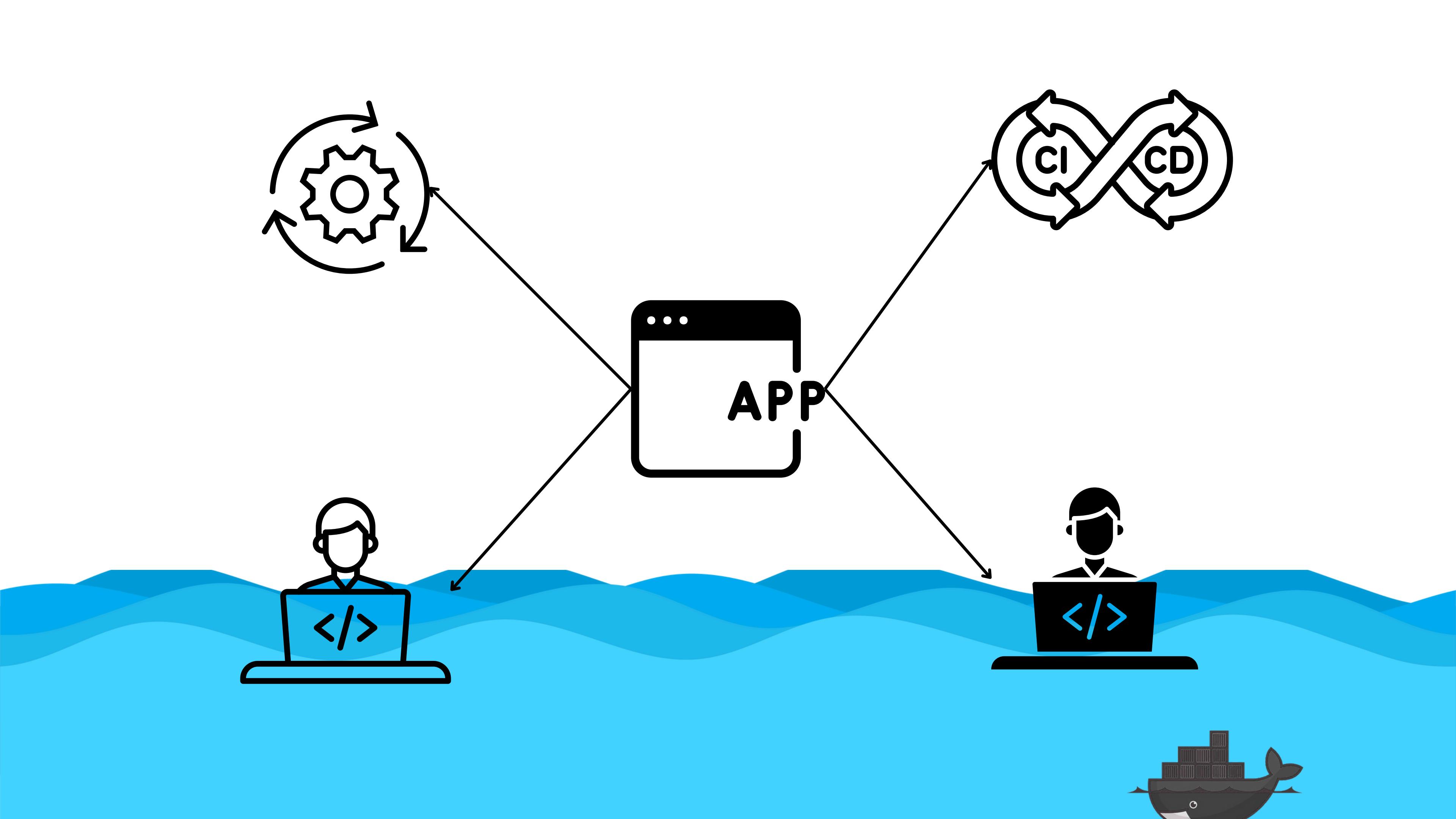


Studium HSR

Codespaces.

Gründer von Codespaces GmbH

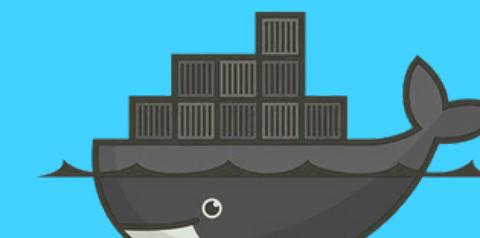




Die Lösung ist Docker

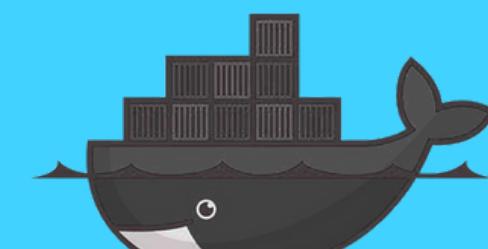
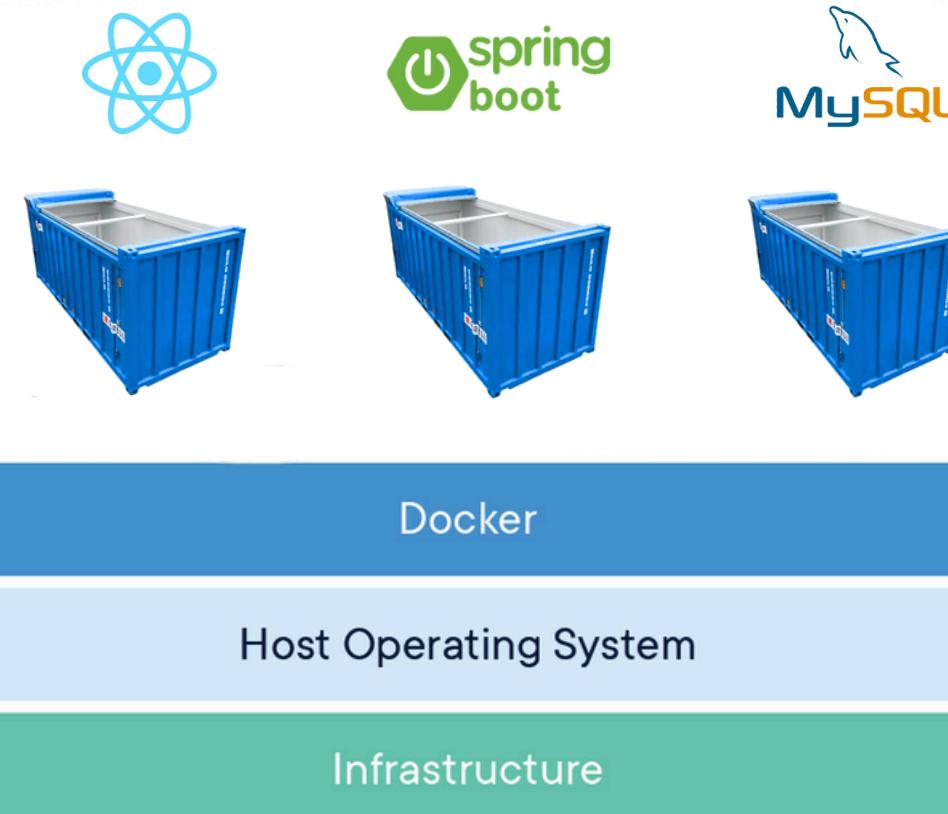
Docker ist eine offene Plattform, die zum Entwickeln, Versenden und Ausführen von Anwendungen dient. Es ermöglicht, Anwendungen von der zugrunde liegenden Infrastruktur zu trennen, sodass Software schnell ausgeliefert werden kann.

Docker erlaubt es Software und ihre Abhängigkeiten zu Paketen zu schnüren.

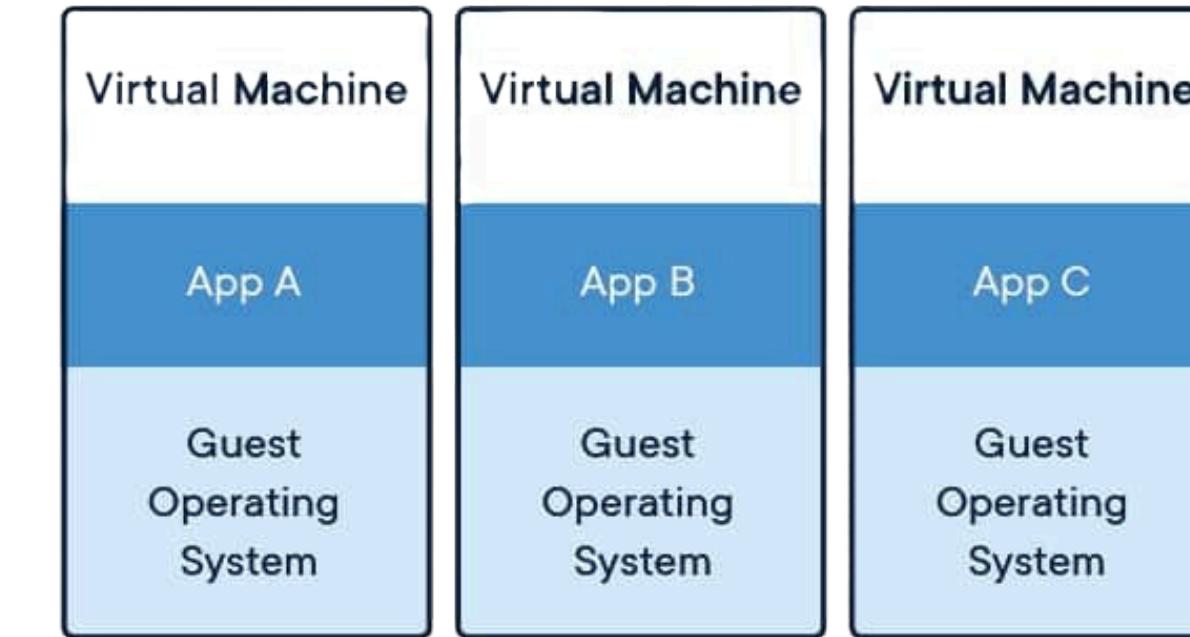
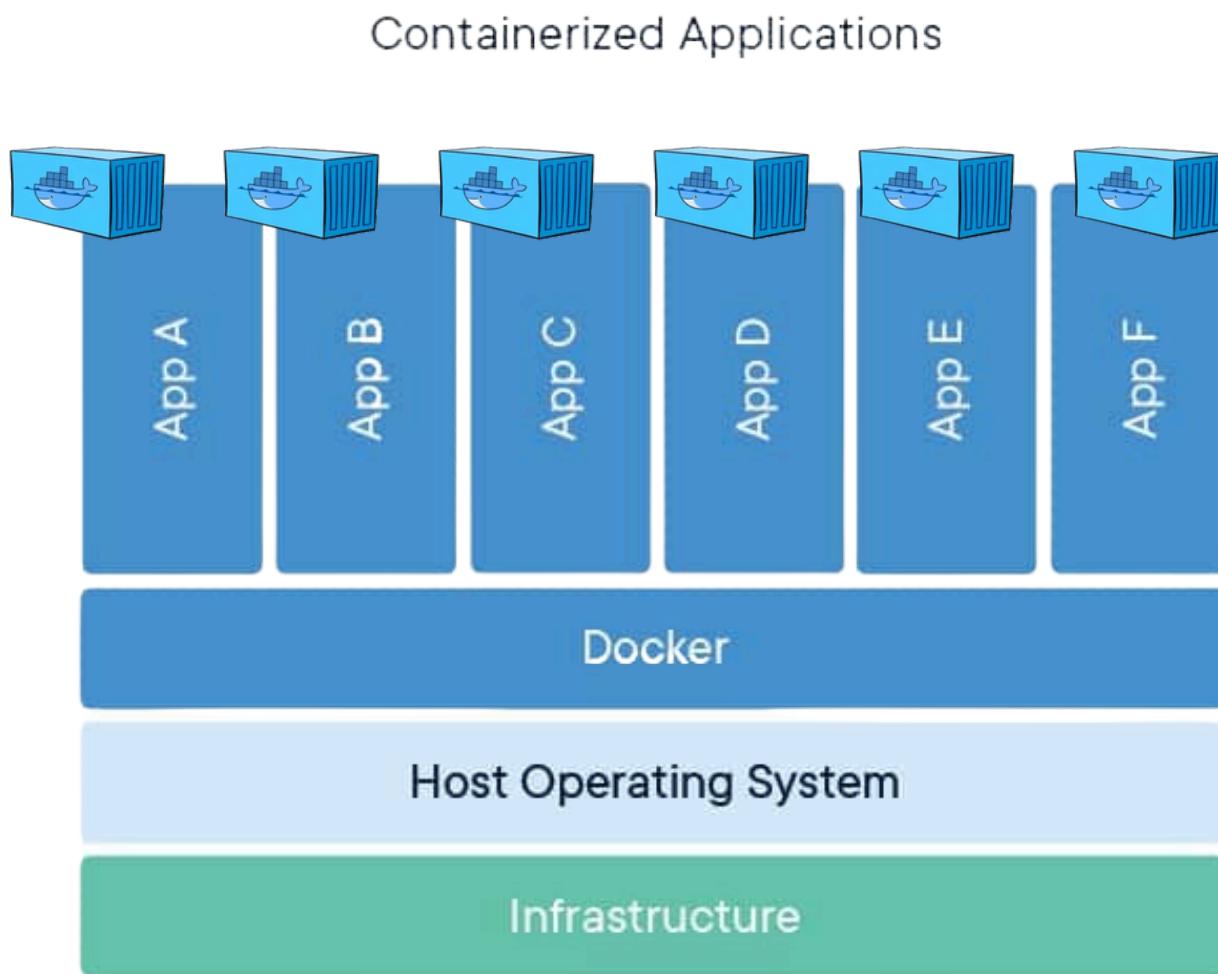


Was ist ein Container?

Anwendungen und Abhängigkeiten werden in Container verpackt



Unterschied Virtualisierung & Containerisierung



- **Typ 1 (Bare-Metal)**
- Typ 2 (Hosted)



Containerisierung

Ressourcen

Startzeit

Portabilität

Skalierung

Virtualisierung

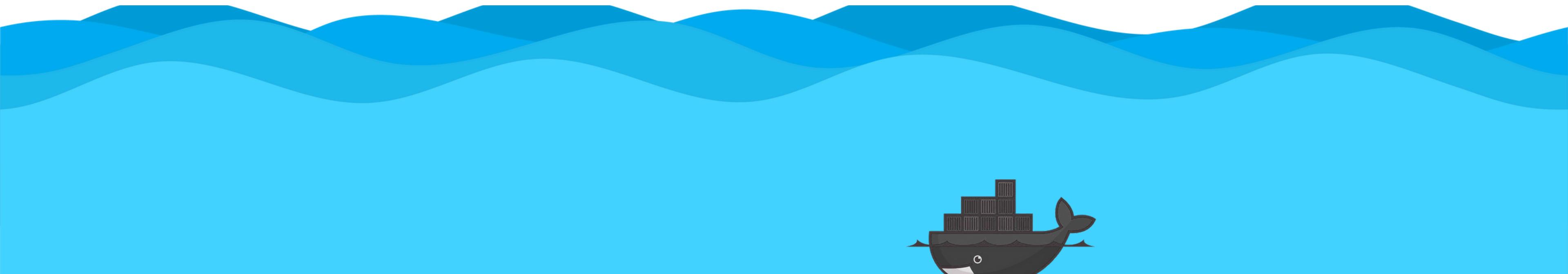
Isolation

Sicherheit

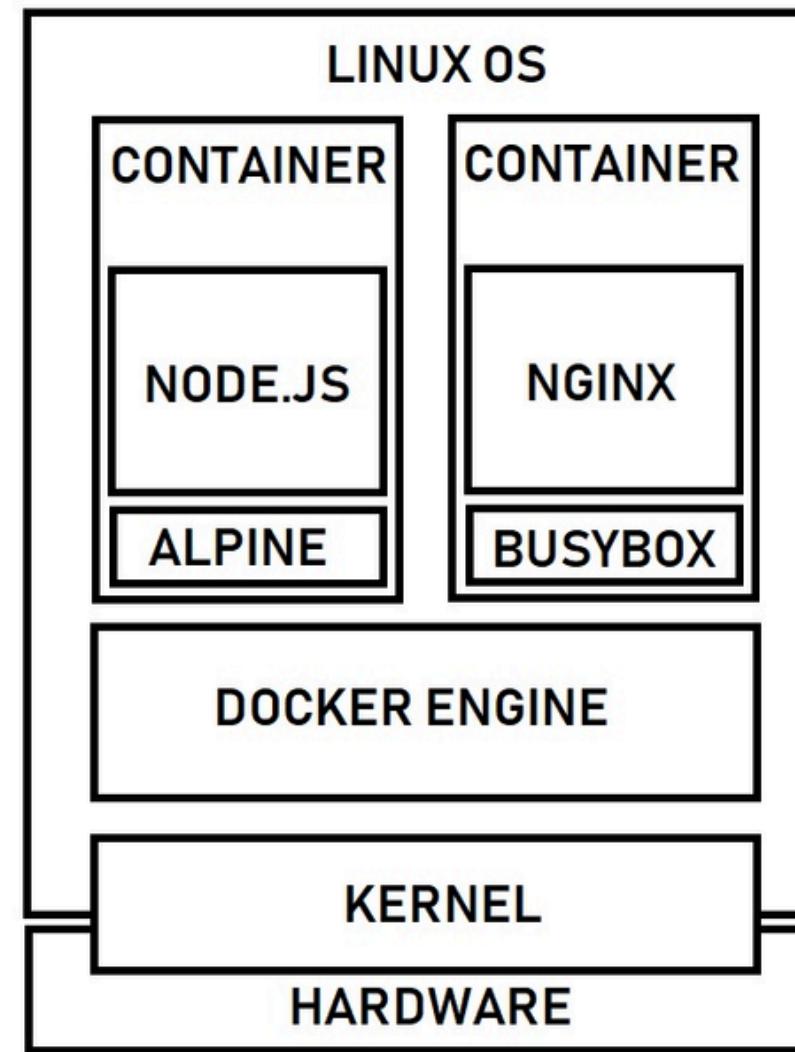
Verwaltung

Stabilität

VS



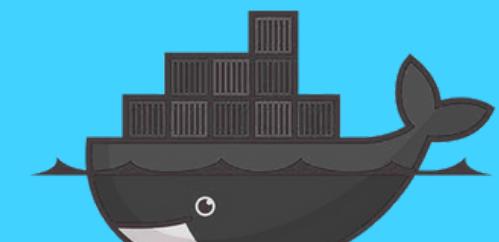
Wie funktioniert Container (Docker)?



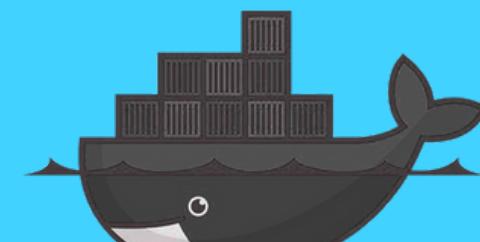
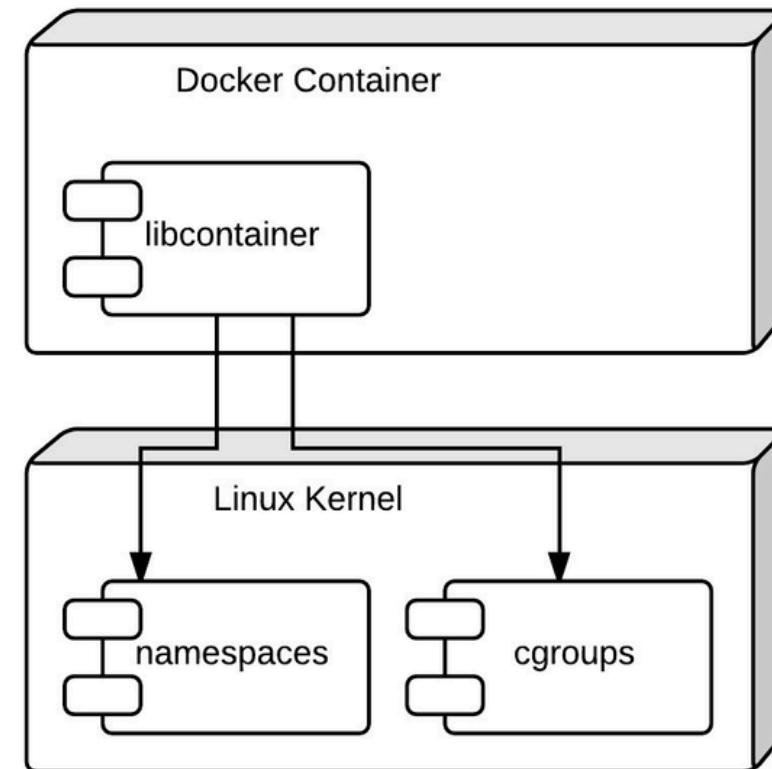
Alpine ca. 5MB
installiert ca. 130MB

VS

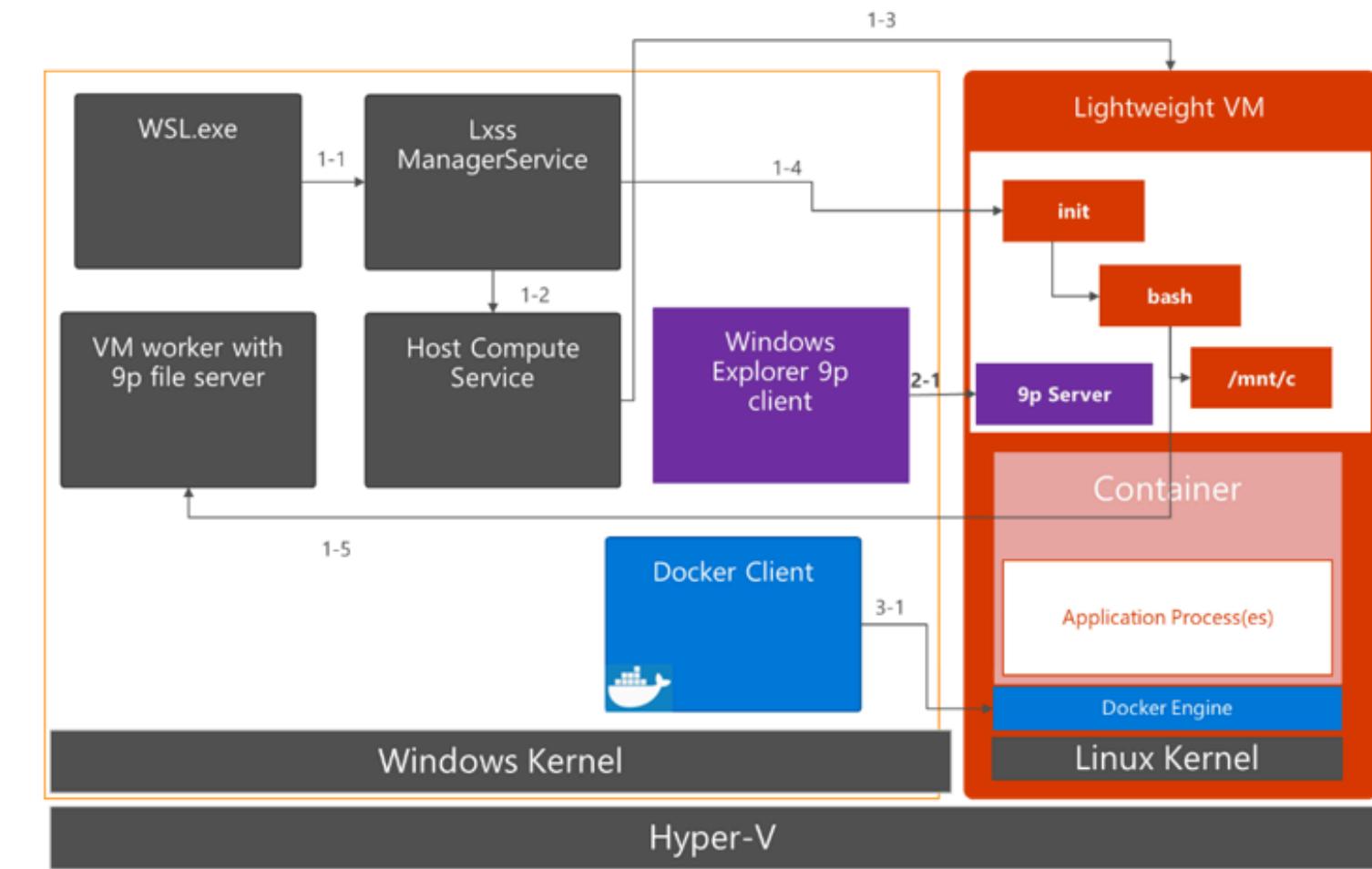
Ubuntu Server ohne GUI ca. 2GB



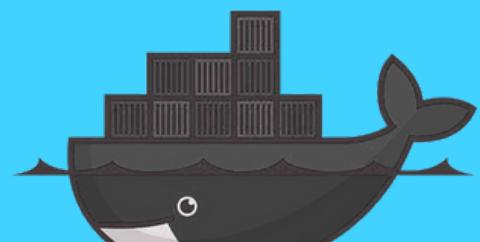
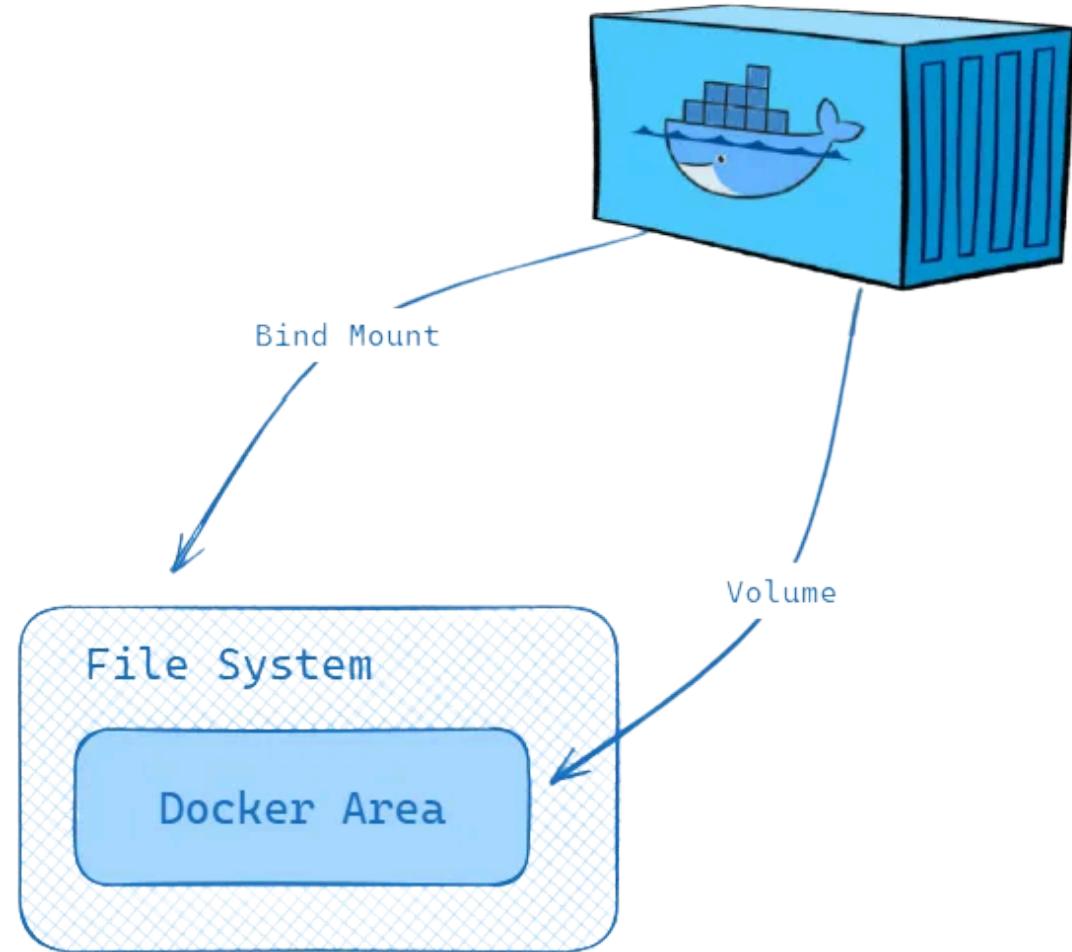
Proxy Library



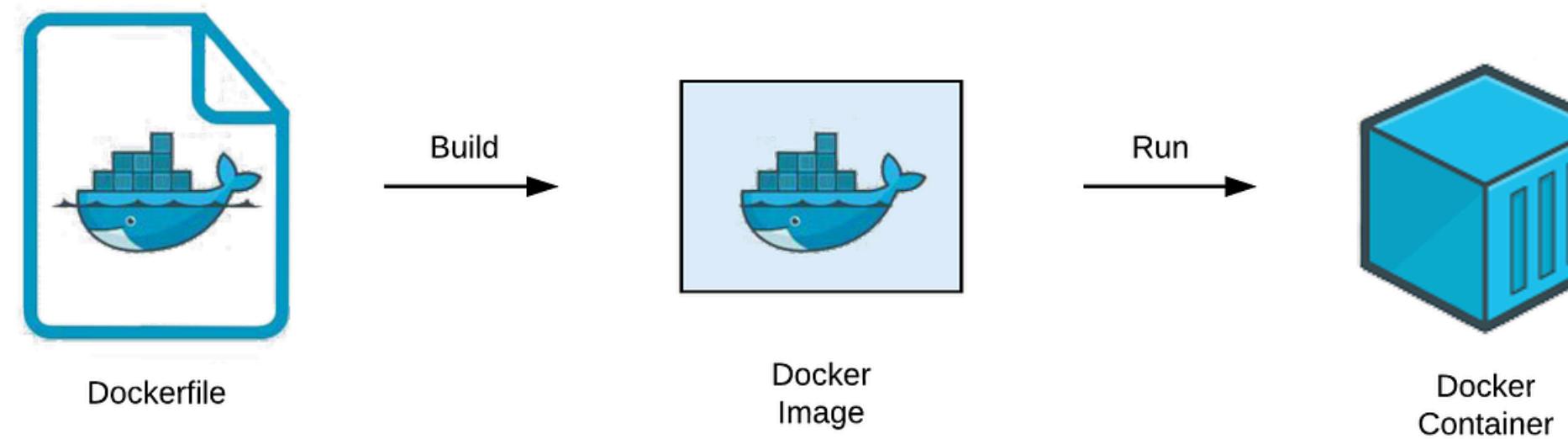
Wie funktioniert Docker unter Windows?



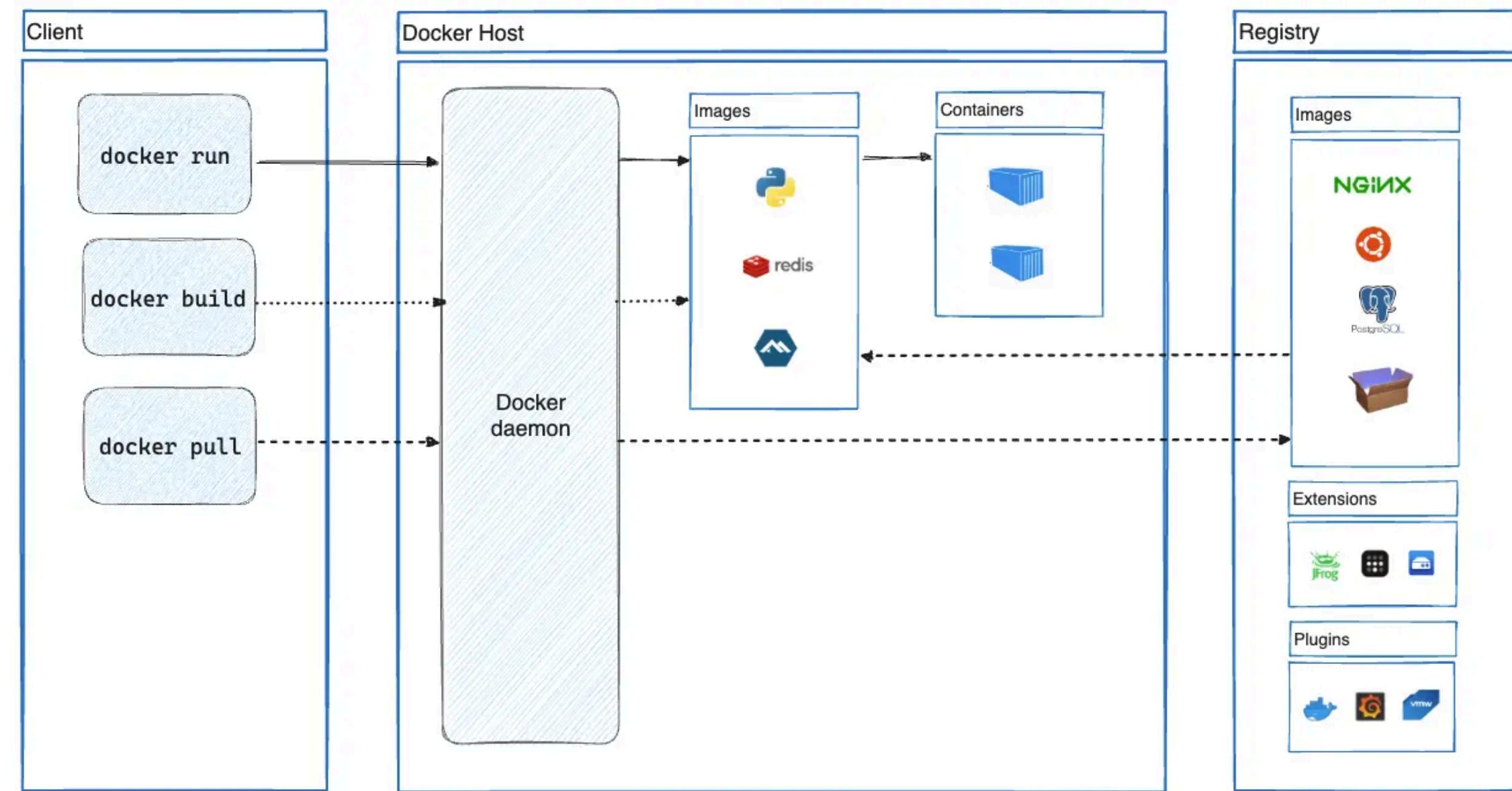
Data Persistieren



Die Welt von Docker



Docker Architektur

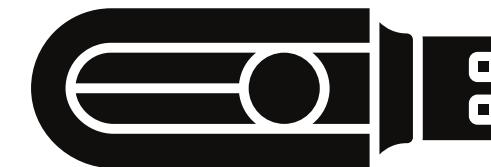


Was macht die Container so grossartig?

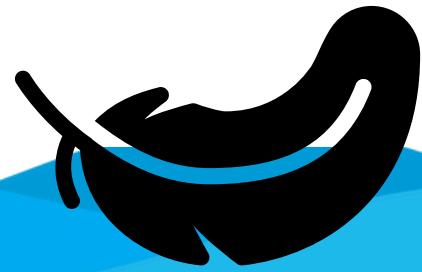
unabhängig



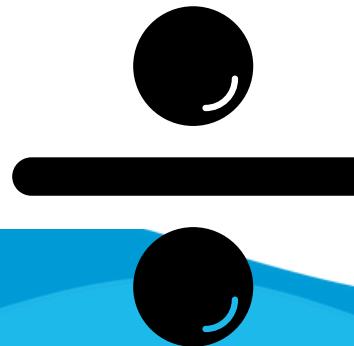
portabel



leichtgewicht

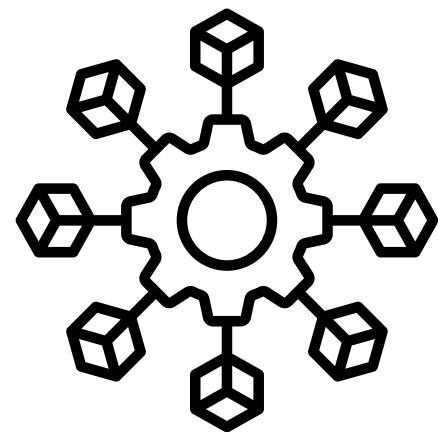


teilbar

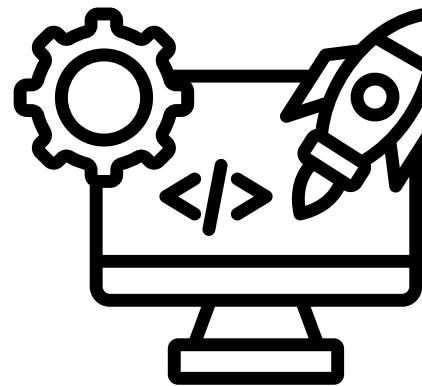


Use Case

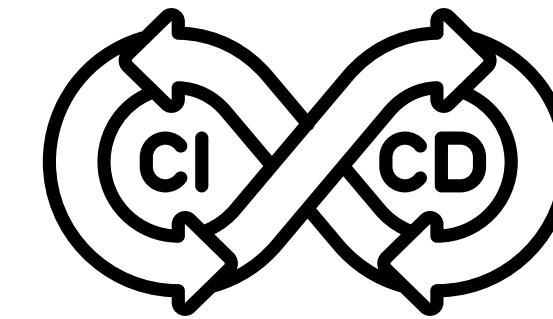
Microservices



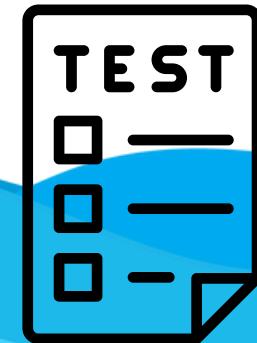
Deployment (+Versionierung)



CI/CD



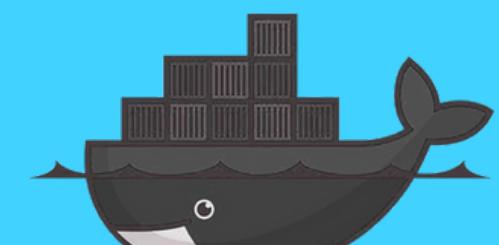
Testumgebung



Legacy-Applikation

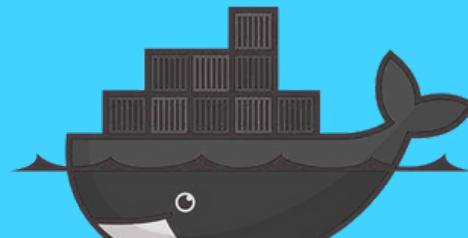


Entwicklung



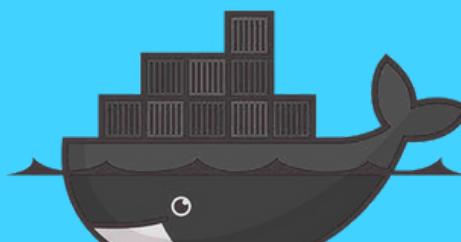
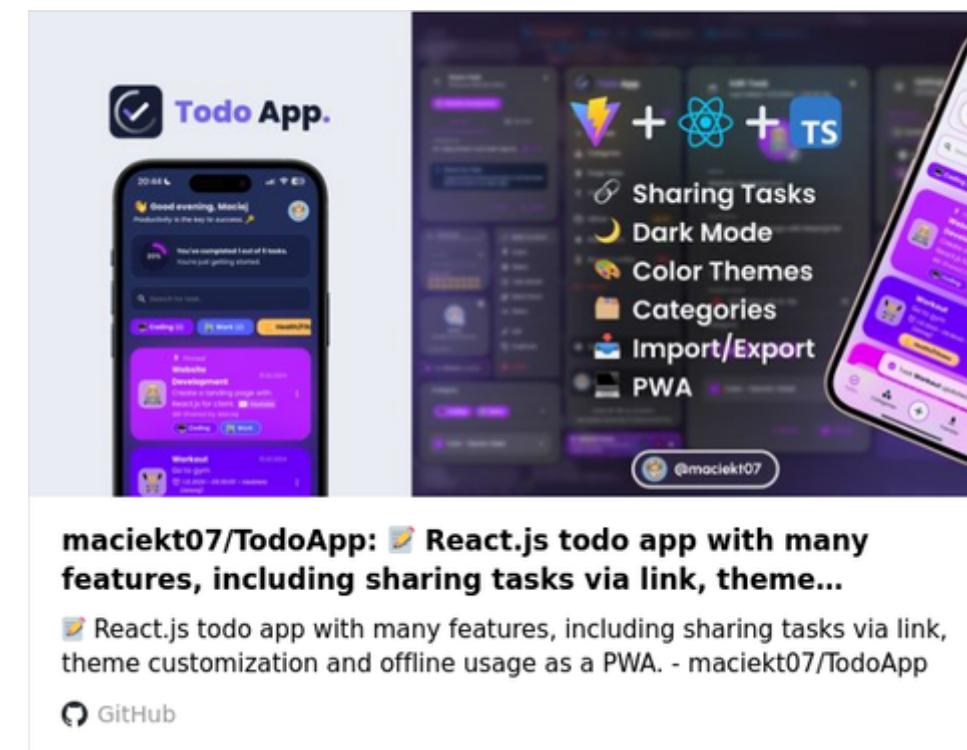
Hnands On 1.0

Run OwnCloud



Hnands On 2.0

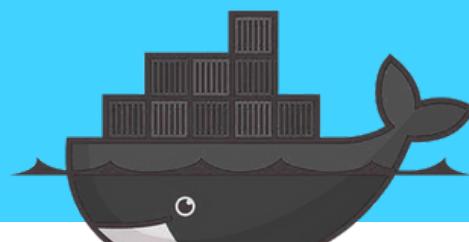
Create a Dockerfile



Hands On 3.0

Create a Devcontainer

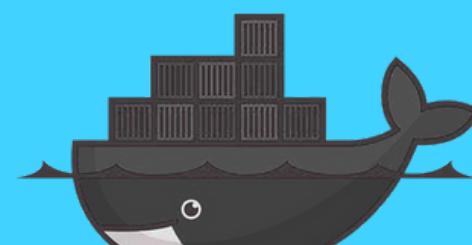
<https://code.visualstudio.com/docs/devcontainers/tutorial>



Hands On 4.0

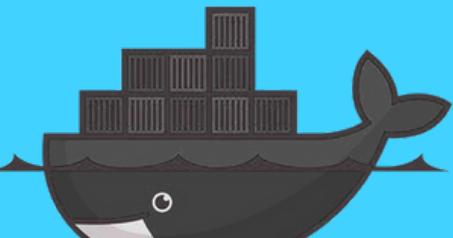
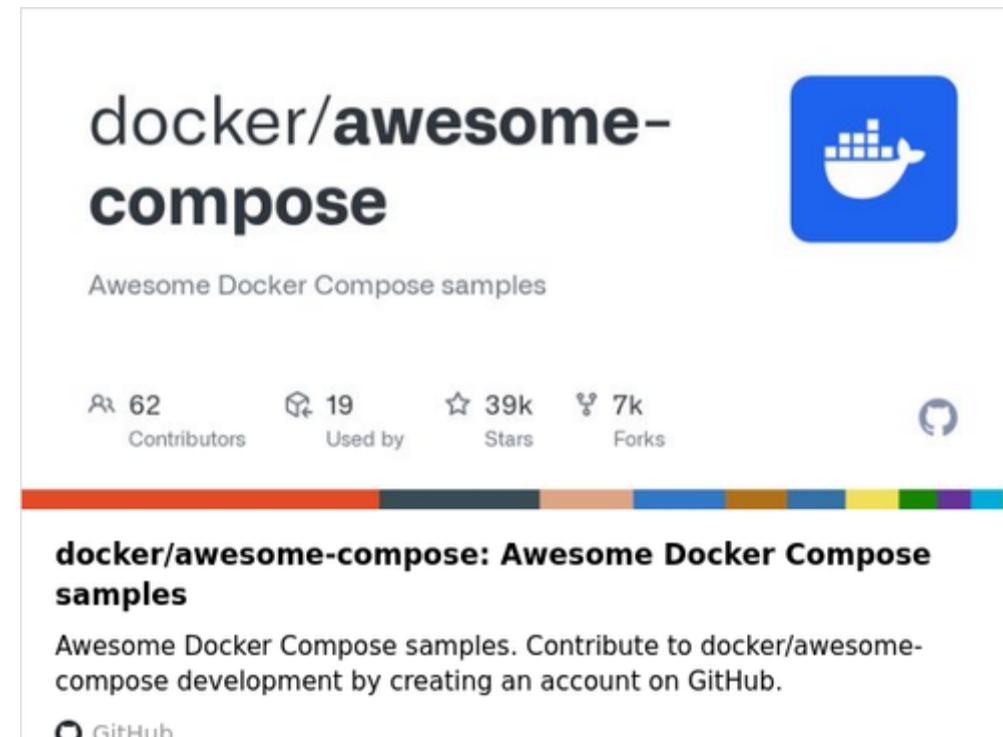
Push to Registry

<https://hub.docker.com/repositories/dockerblocker2000>



Hnands On 5.0

Create Docker Compose



Danke

