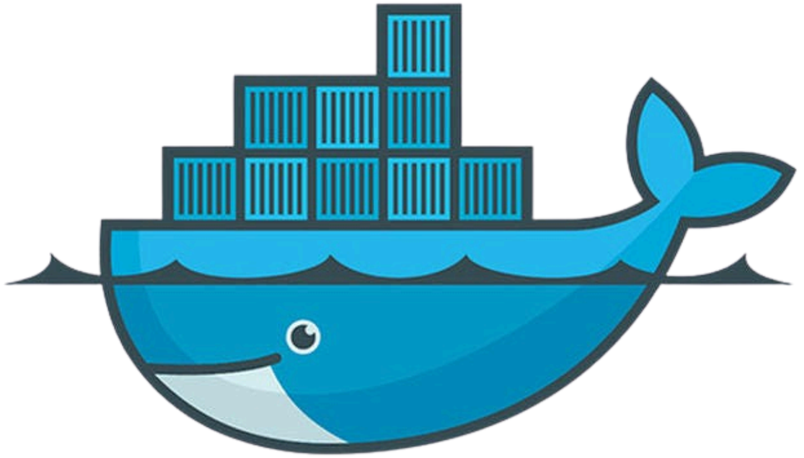
Video zu den Uebungen



docker

Scan mich!

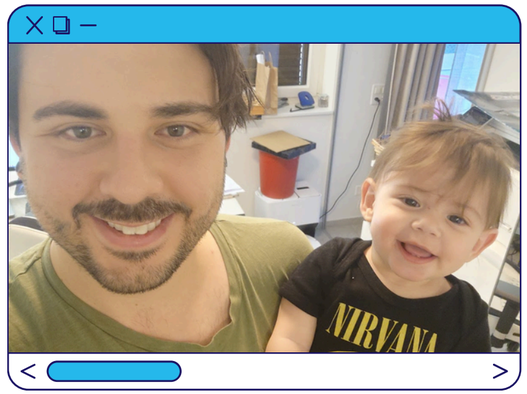
GitHub

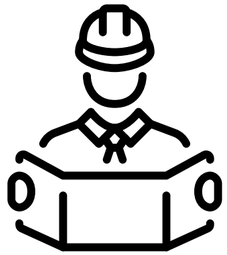
Codespaces

In Code We Trust.

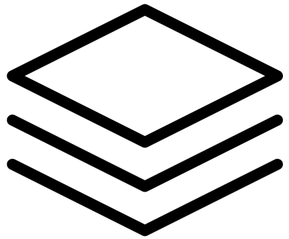
Andreas Deicha

Andreas Deicha - Vadozner und Balzner

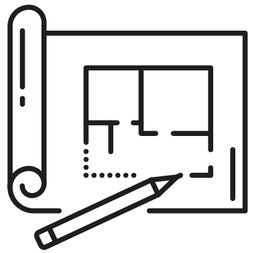




Software Entwickler
seit 2017 (erster Job)



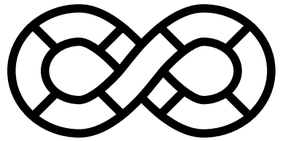
Fullstack
.Net Core
Spring Boot
Ruby on Rails
Vue.js
Angular
WPF



Architekt

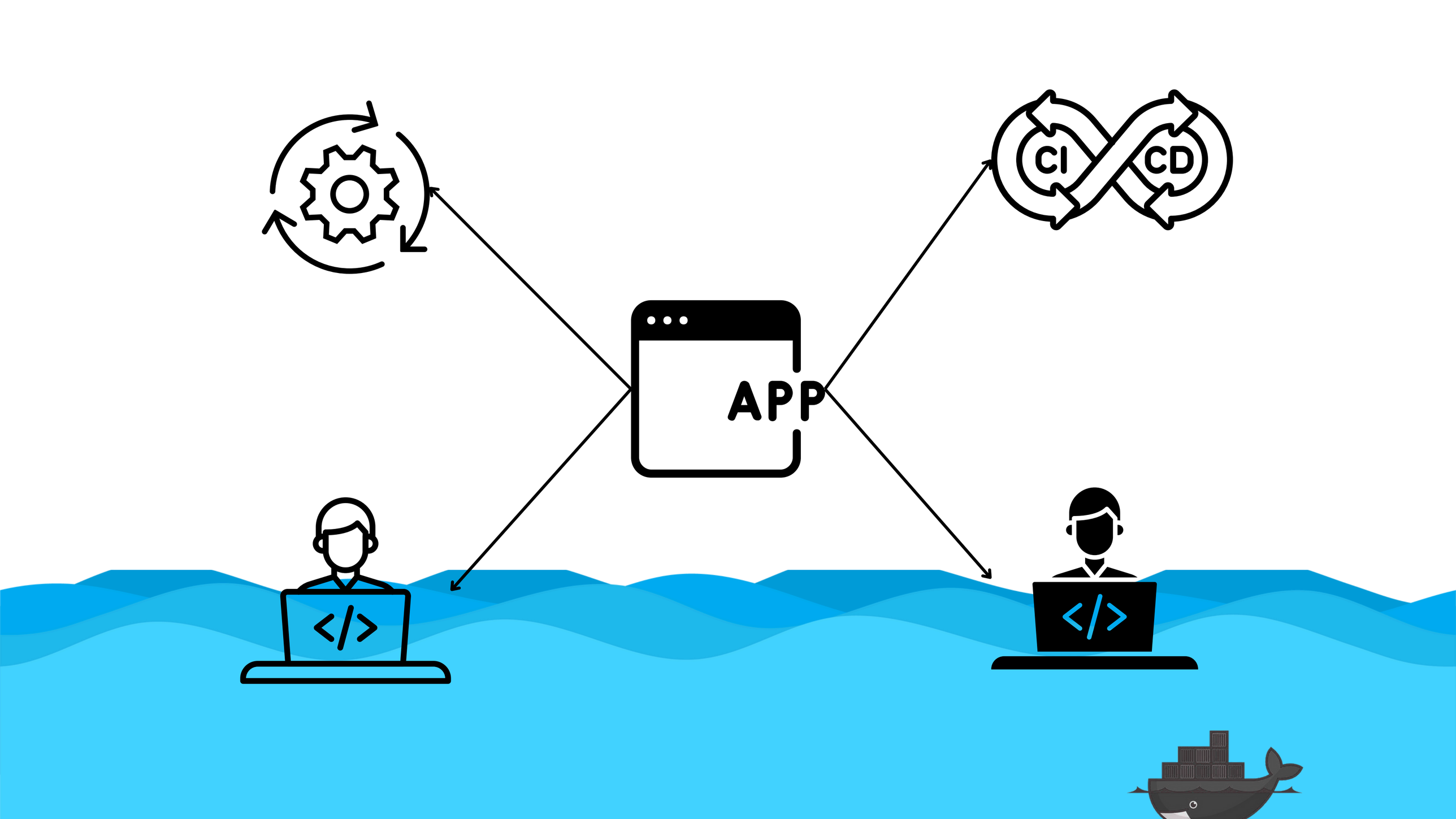
Studium HSR

DEV OPS



Codespaces.

Gründer von Codespaces GmbH


CI
CD
APP

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.

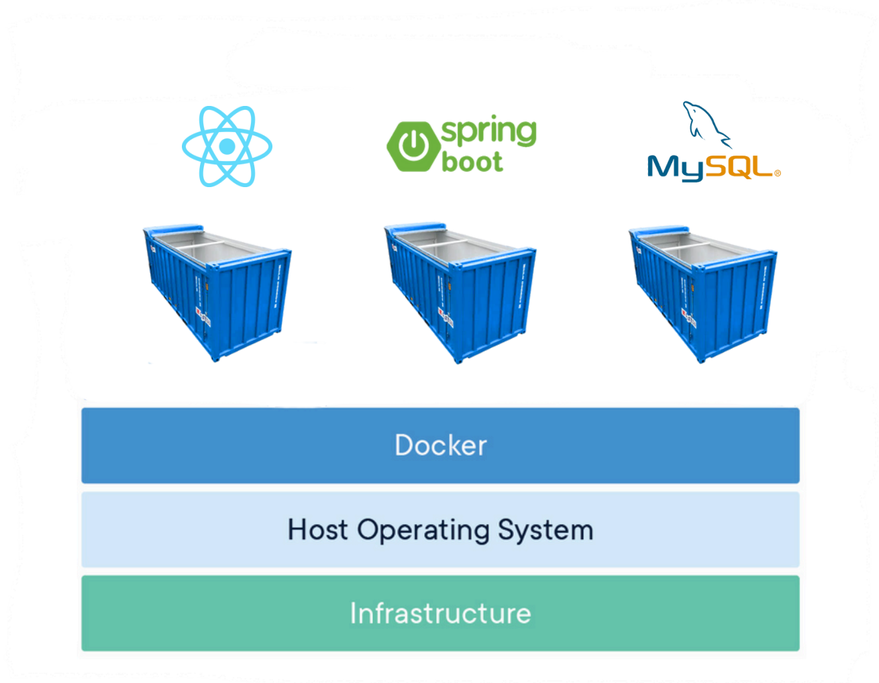
Docker (Software)

Docker ist eine freie Software zur Isolierung von Anwendungen mit Hilfe von Containervirtualisierung.

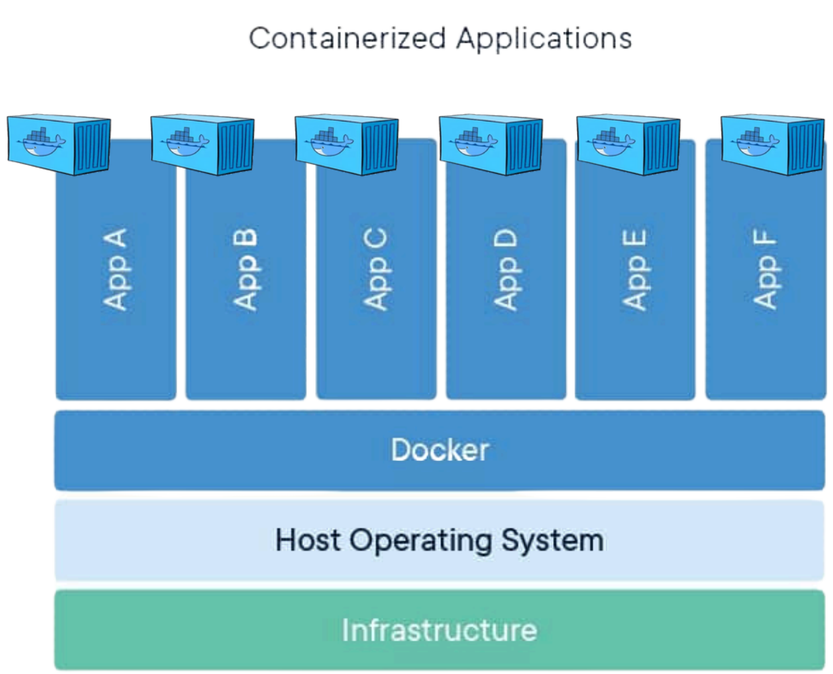
Wikipedia

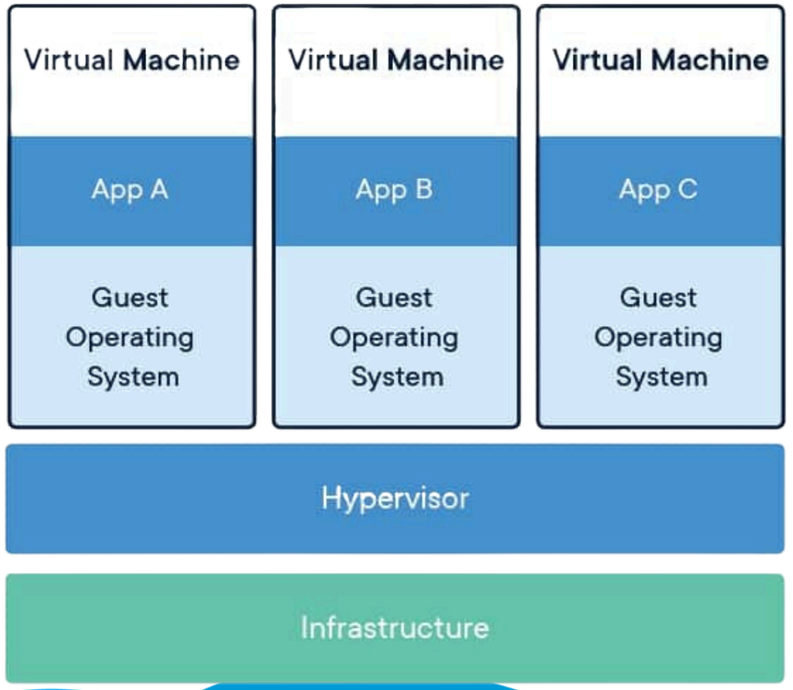
Was ist ein Container?

Anwendungen und Abhängigkeiten werden in Container verpackt



Unterschied Virtualisierung & Containerisierung





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

Containerisierung

Ressourcen

Startzeit

Portabilität

Skalierung

VS

Virtualisierung

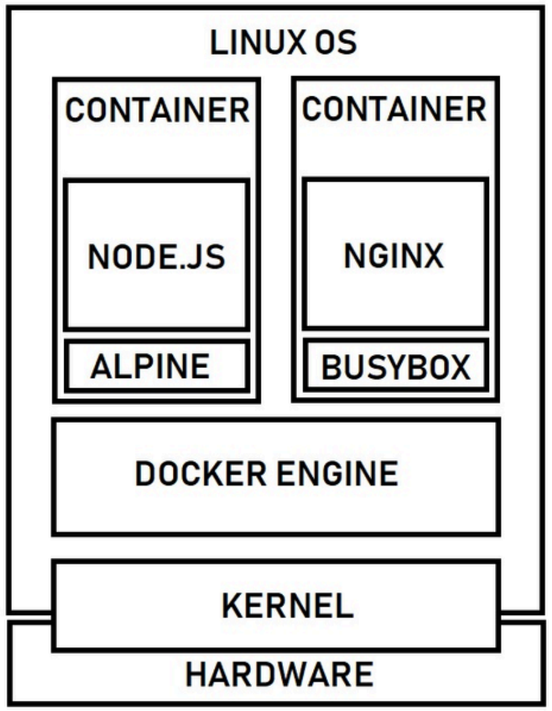
Isolation

Sicherheit

Verwaltung

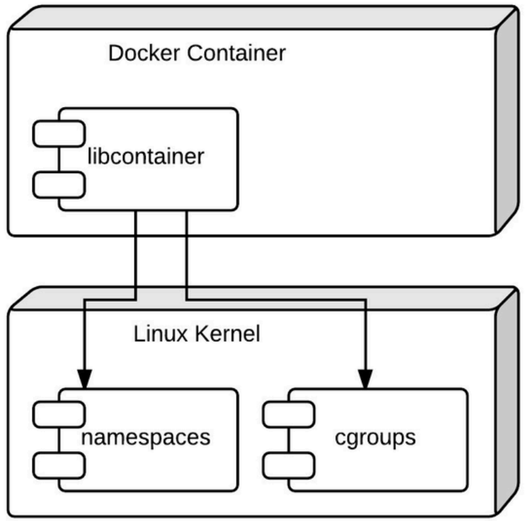
Stabilität

Wie funktioniert Container (Docker)?

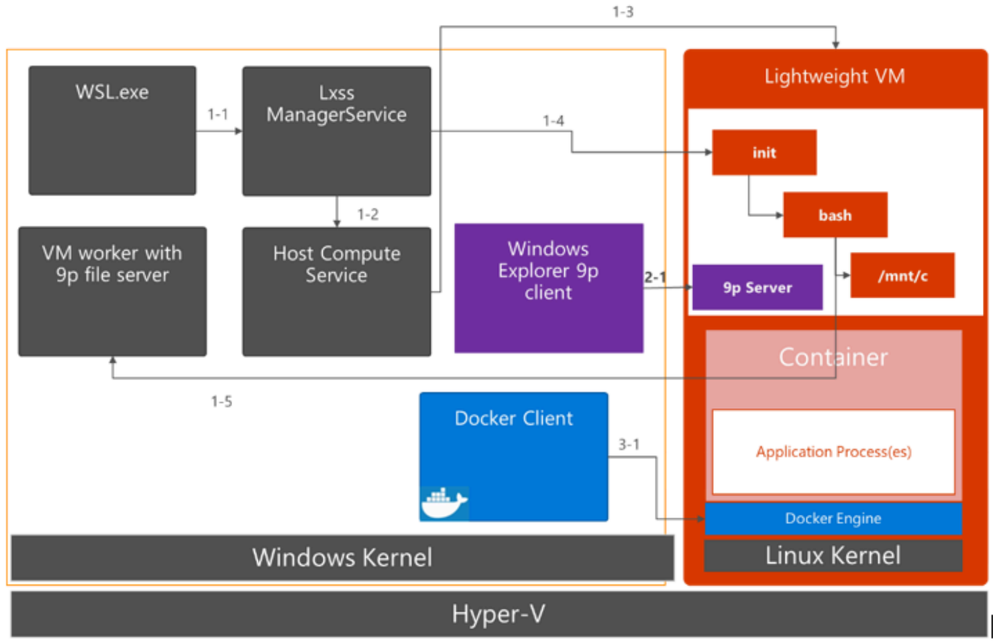


Alpine ca. 5MB
installiert ca. 130MB
vs
Ubunut Server ohne GUI ca. 2GB

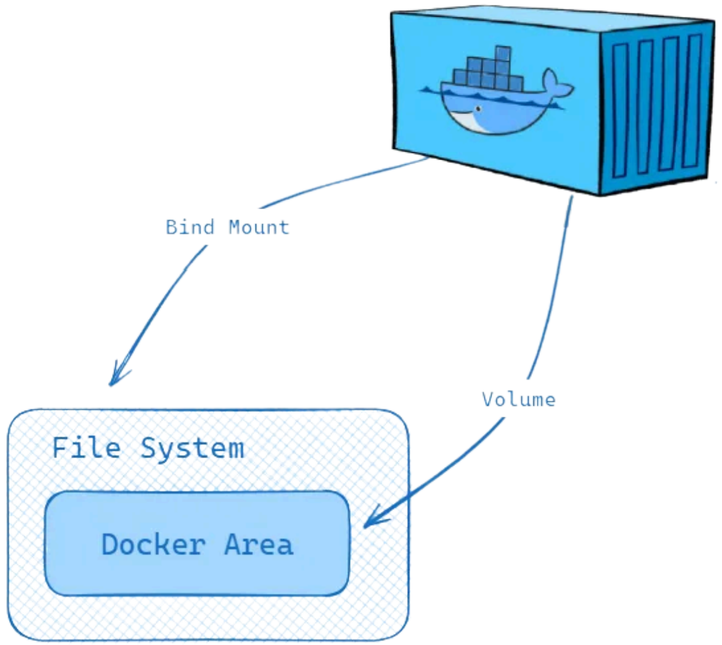
Proxy Library



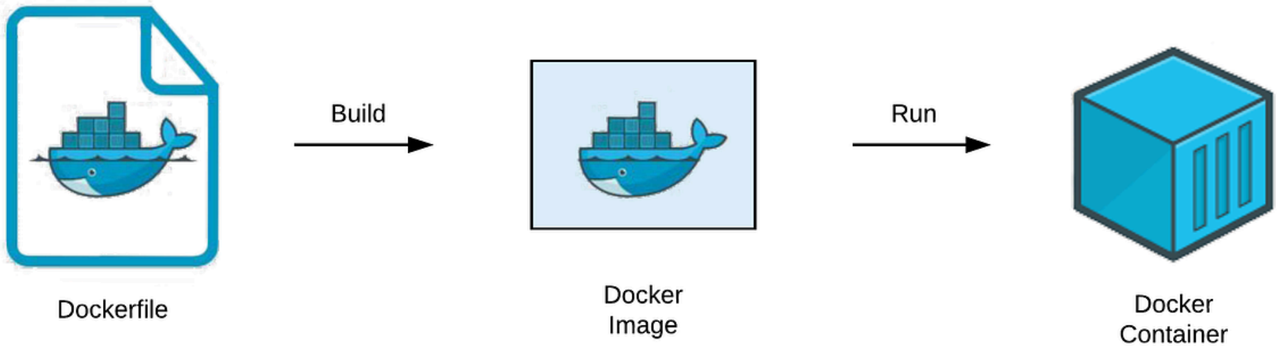
Wie funktioniert Docker unter Windows?



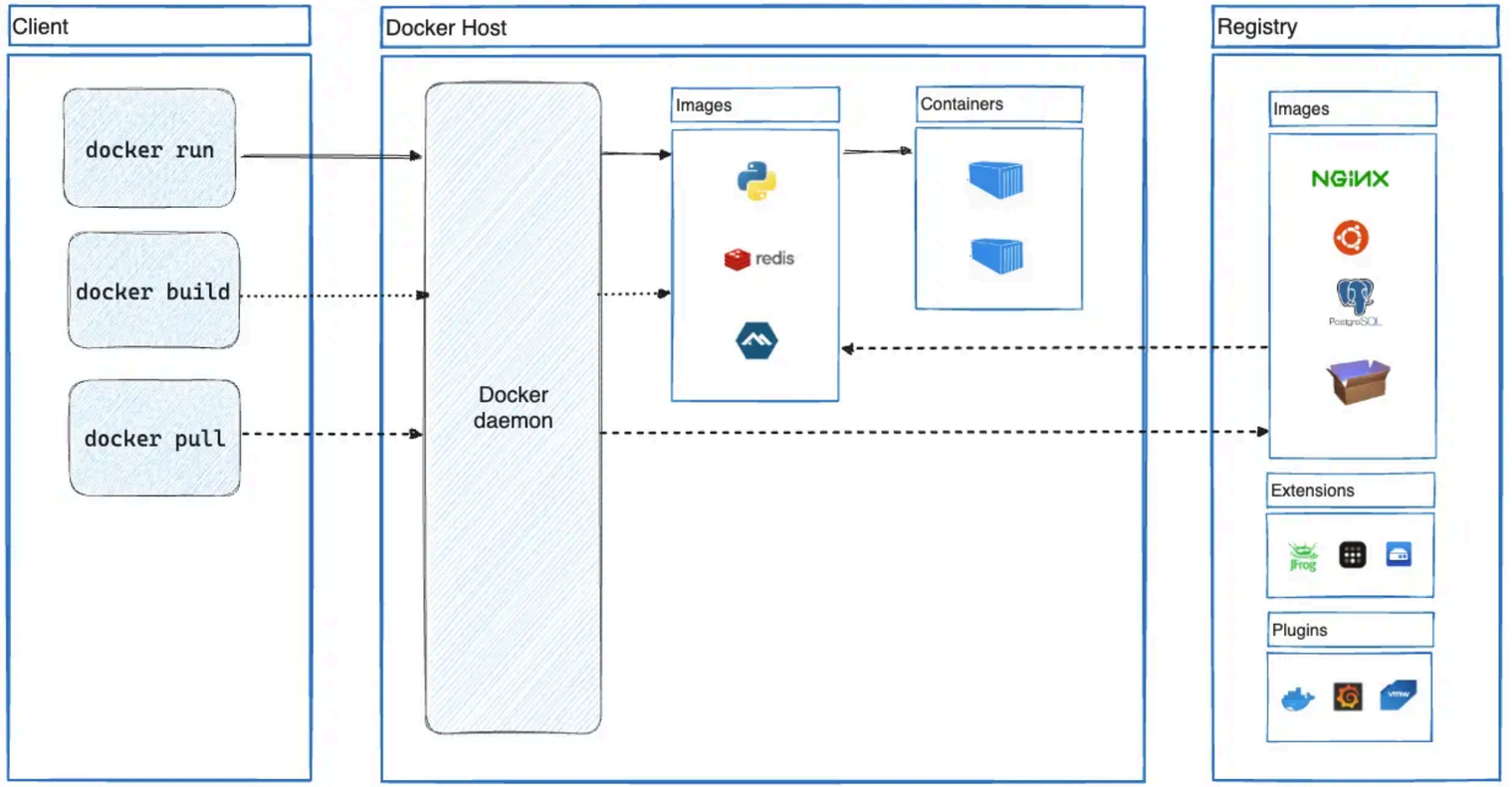
Data Persistieren



Die Welt von Docker



Docker Architektur



Was macht die Container so grossartig?

unabhängig

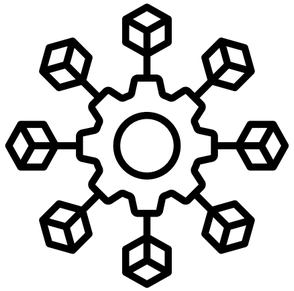
portabel

leichtgewicht

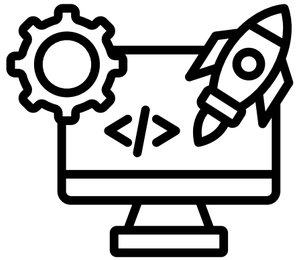
teilbar

Use Case

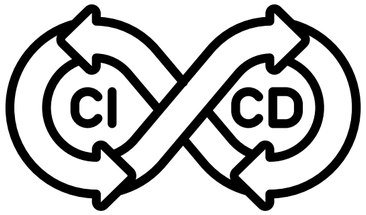
Microservices



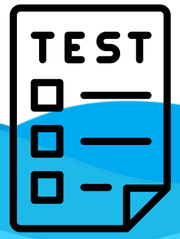
Deployment (+Versionierung)



CI/CD



Testumgebung

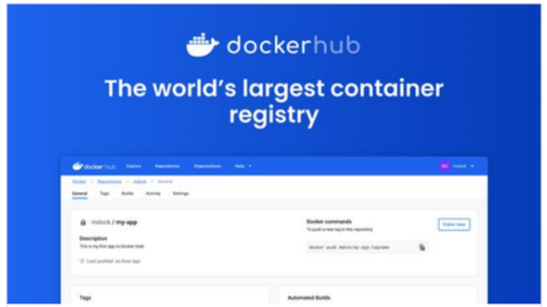


Legacy-Applikation

Entwicklung

Hnands On 1.0

Run OwnCloud



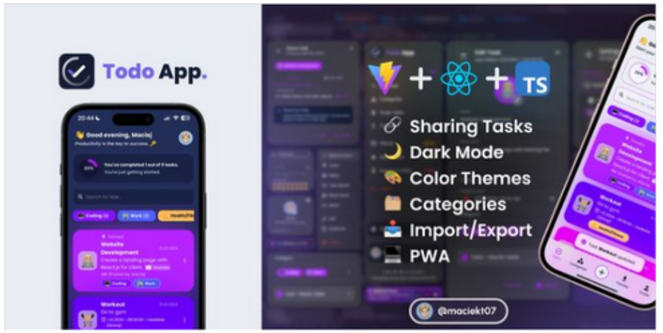
Docker Hub Container Image Library | App Containerization

Welcome to the world's largest container registry built for developers and open source contributors to find, use, and share their container images. Build, push and pull.

docker.com

Hnands On 2.0

Create a Dockerfile



maciekt07/TodoApp: 📝 React.js todo app with many features, including sharing tasks via link, theme...

📝 React.js todo app with many features, including sharing tasks via link, theme customization and offline usage as a PWA. - maciekt07/TodoApp

GitHub

Hnands On 3.0

Create a Devcontainer

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

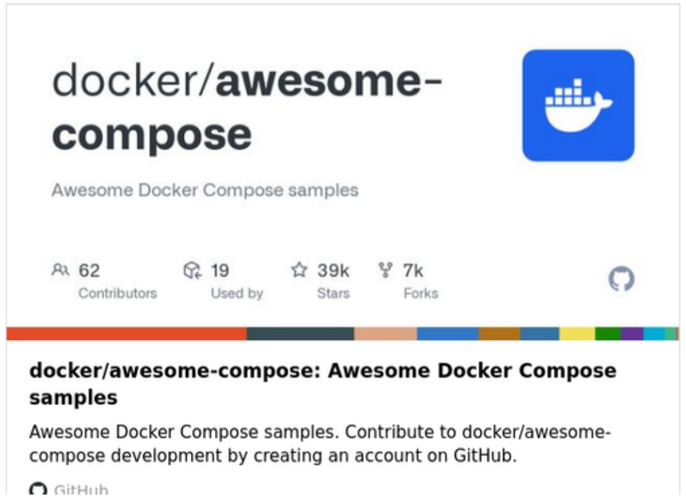
Hnands On 4.0

Push to Registry

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

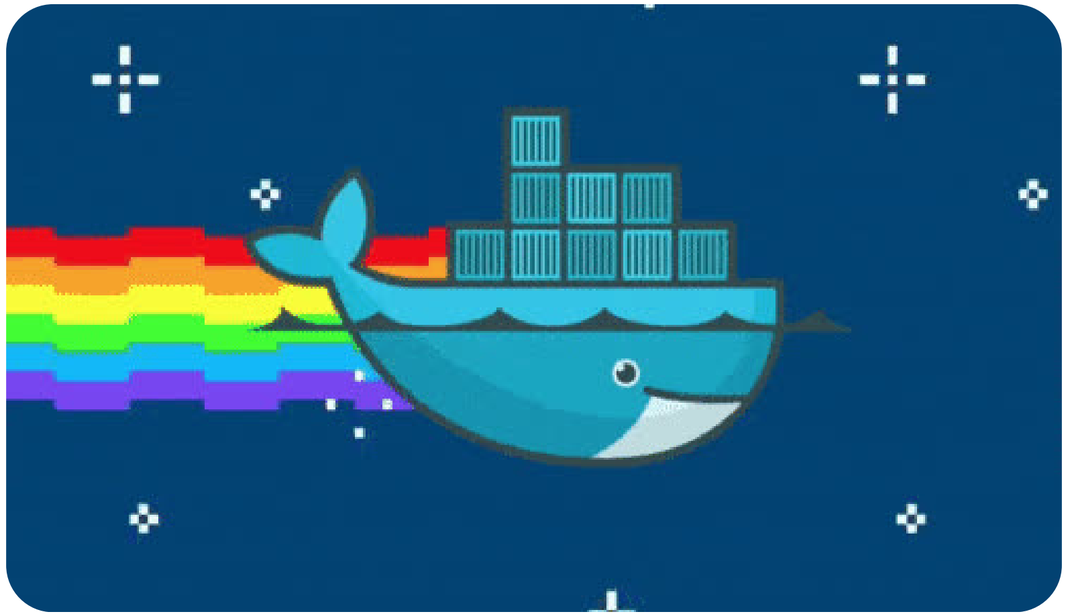
Hnands On 5.0

Create Docker Compose



Danke

Video zu den Uebungen



Scan mich!

GitHub