



# docker

Linux Container  
Docker

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# Container гэж юу вэ?

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Container

# Linux Container гэж юу вэ?

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- Тодорхой бэлдсэн орчинд ажиллах процессийг linux container гэнэ.
- Container = Process, Network, File system isolation
- Container = CGroups, Namespaces, SELinux
- <https://www.youtube.com/watch?v=Utf-A4rODH8>

# Container technologies

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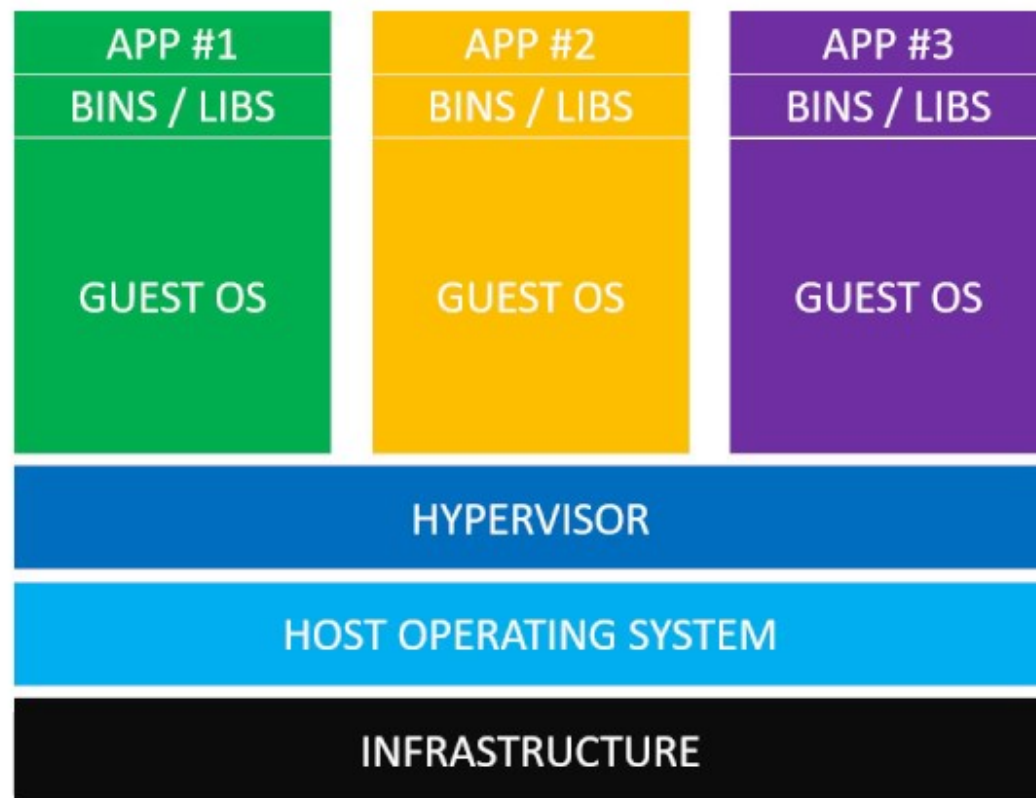
- FreeBSD Jails
- Rkt from CoreOS
- LXD
- Linux VServer
- Window Containers & Hyper-V Container
- Docker

# Docker гэж юу вэ?

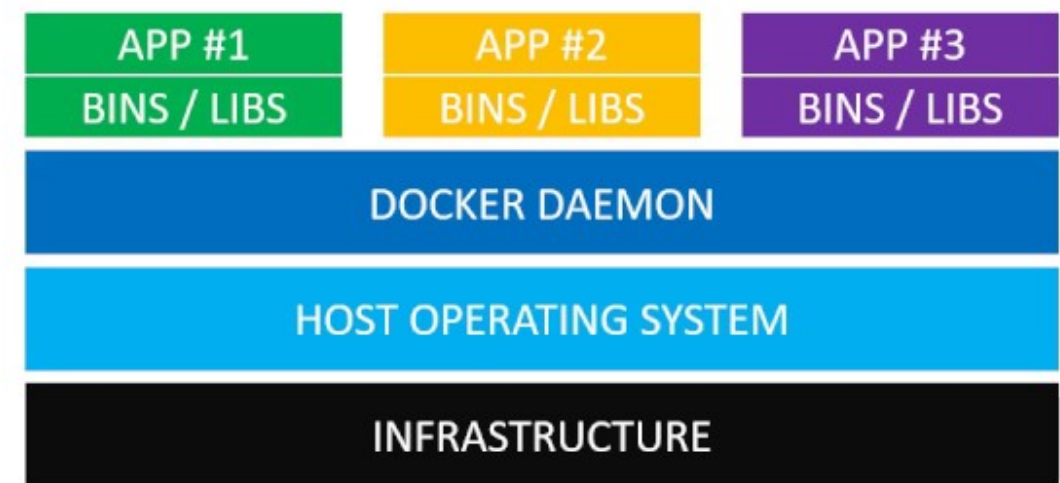
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- Developer friendly Linux Container Engine
- Image based container engine
- Modular
- Rapid deployment
- CI/CD friendly

# Hypervisor vs Container



Virtual Machines



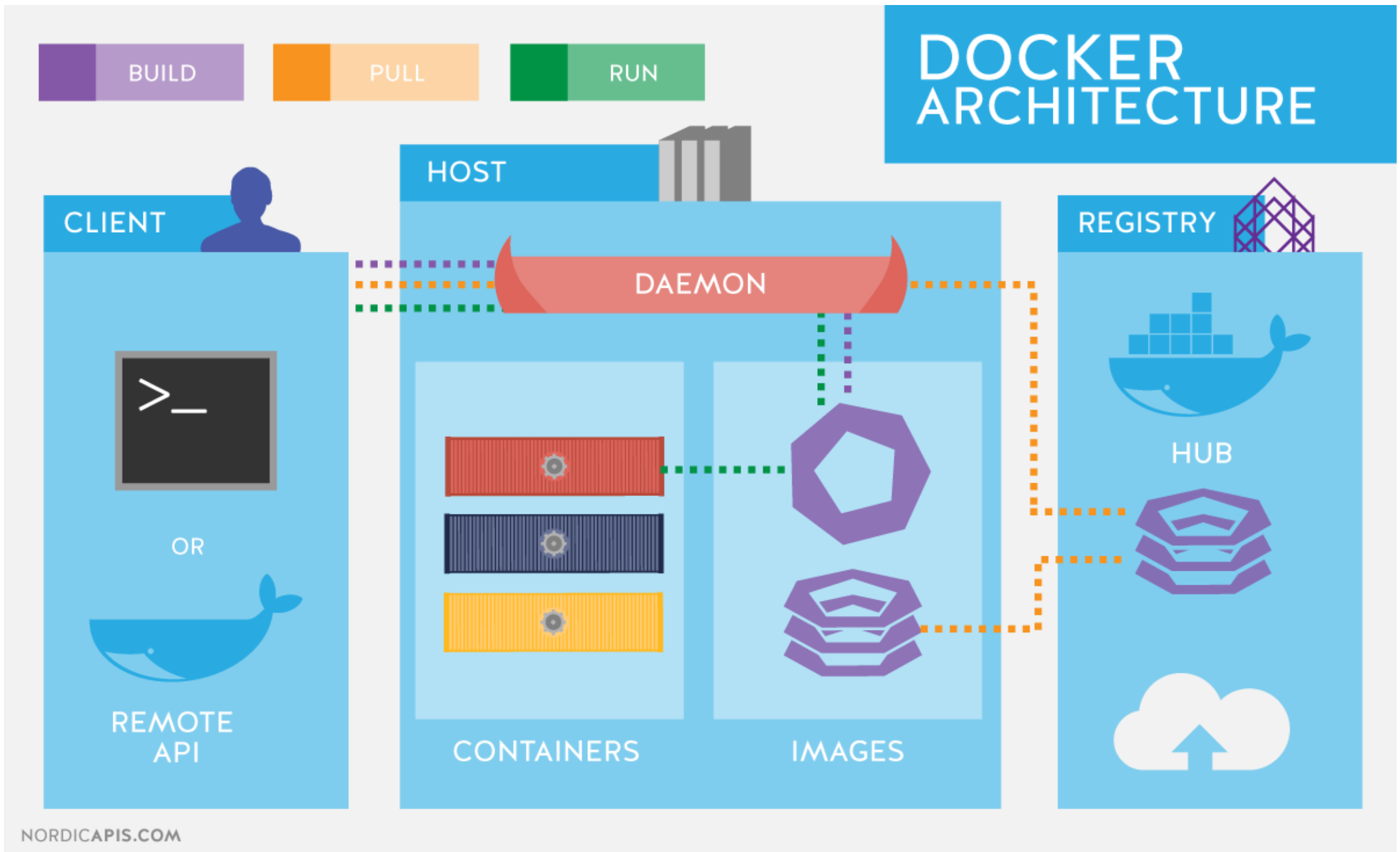
Docker Containers

# Container with Cloud, Microservices, FaaS

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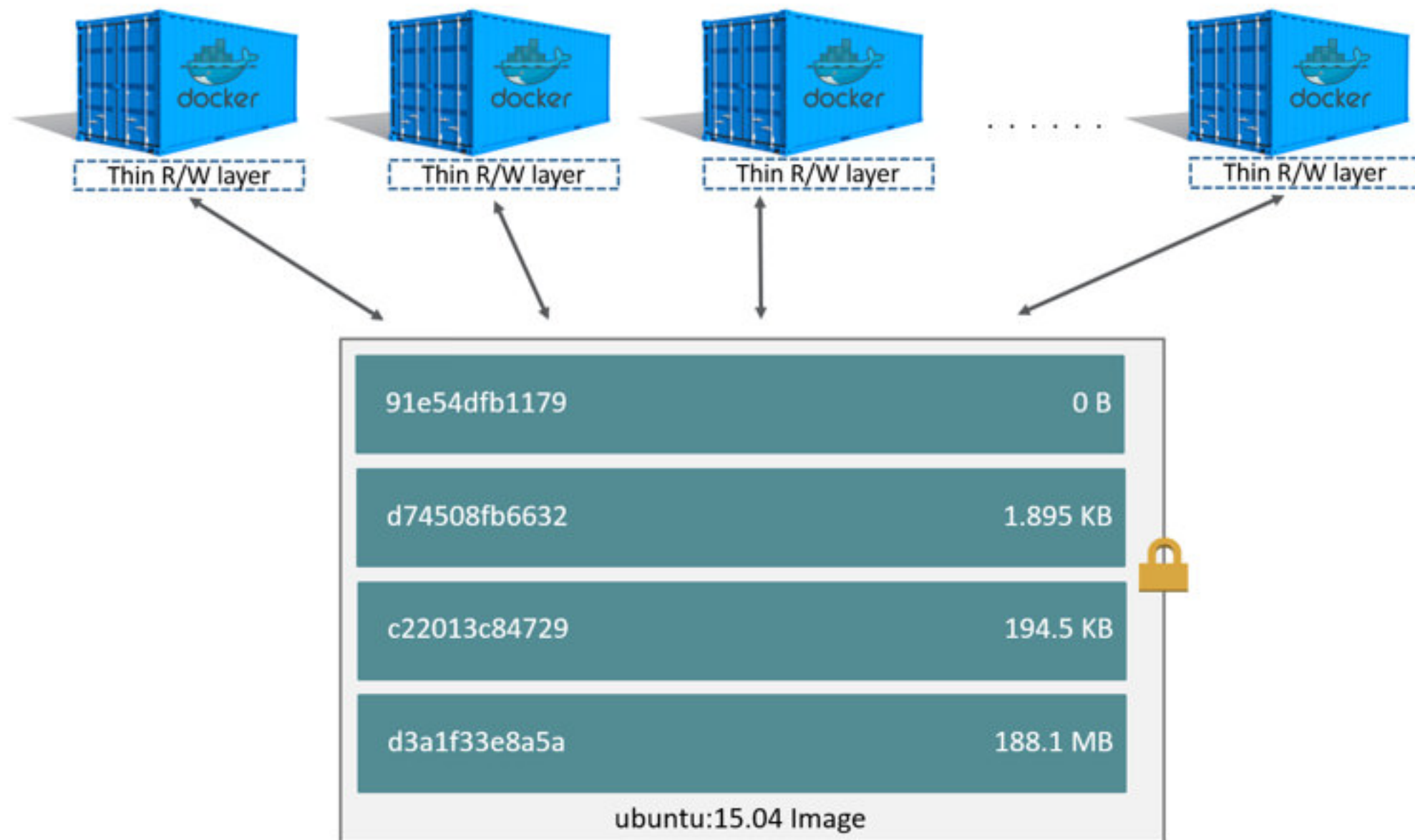
- Layers of abstraction
- Сегмент үүсгэх зарчмаар хүний нөөц болон системийн ажиллагааг тодорхой хуваах
- Stateless & High Availability
- Avoid Vendor Lock-In

# Docker overview





# Docker image - AusFS



# Docker-compose

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- A tool for multi-container application
- `docker-compose.yml`

# Containerize existing web application

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- ToDo app written in Laravel Framework
- <https://github.com/tuvshuud/php7-apache-laravel>
- Run multi-container using docker-compose
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