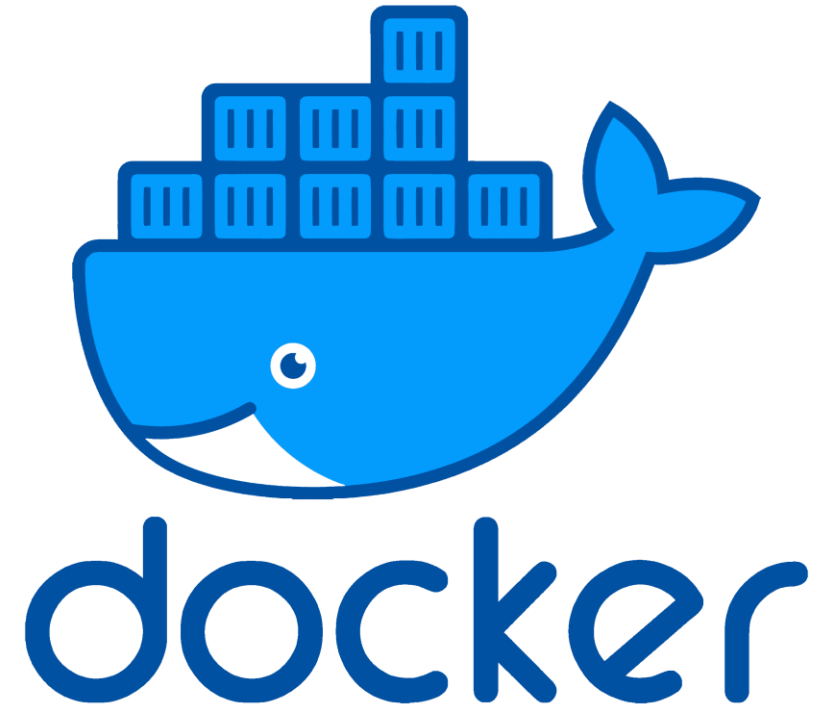


Docker

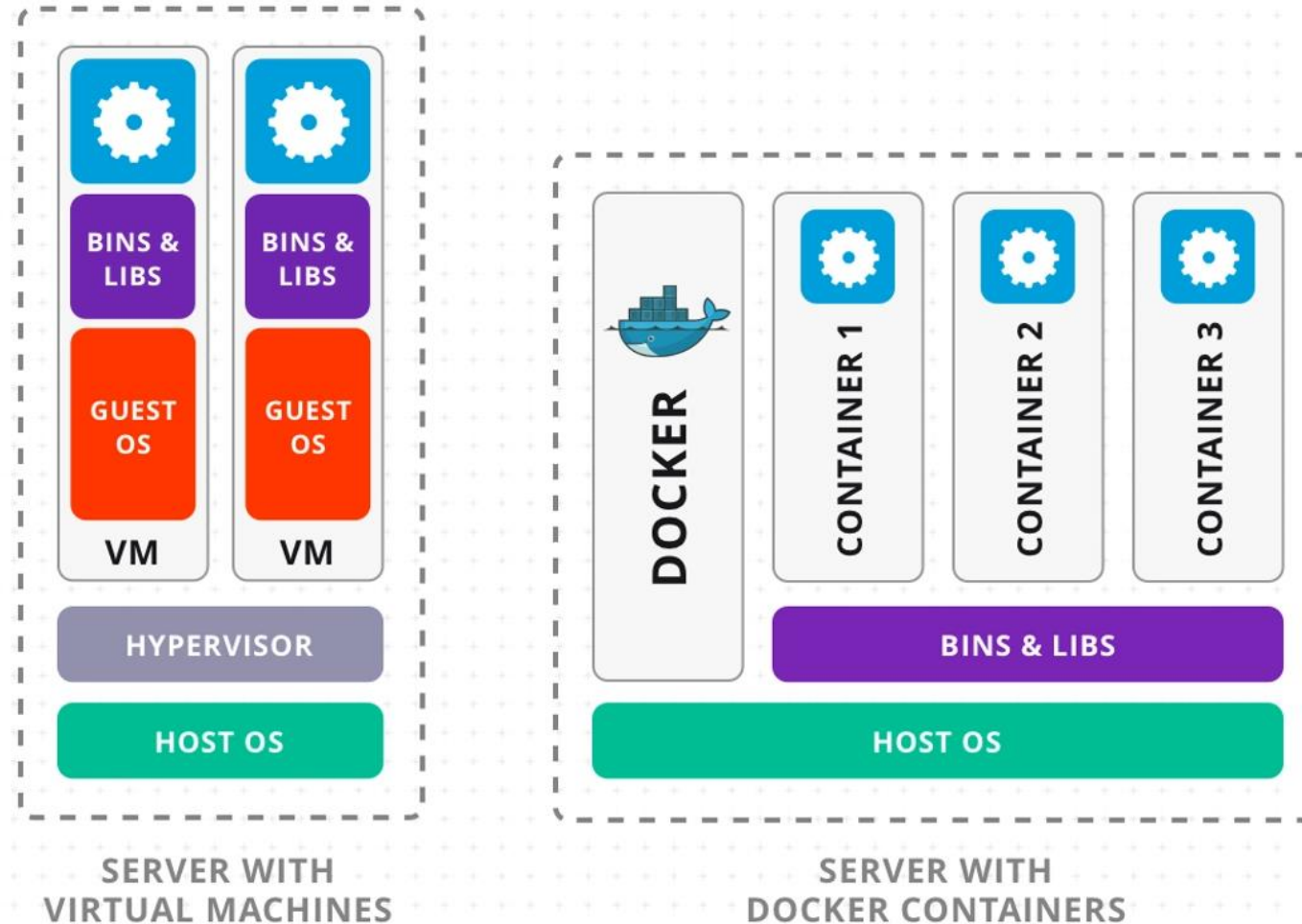
Лекция №5

Что такое docker?

Docker — программное обеспечение для автоматизации развёртывания и управления приложениями в средах с поддержкой контейнеризации, контейнеризатор приложений.



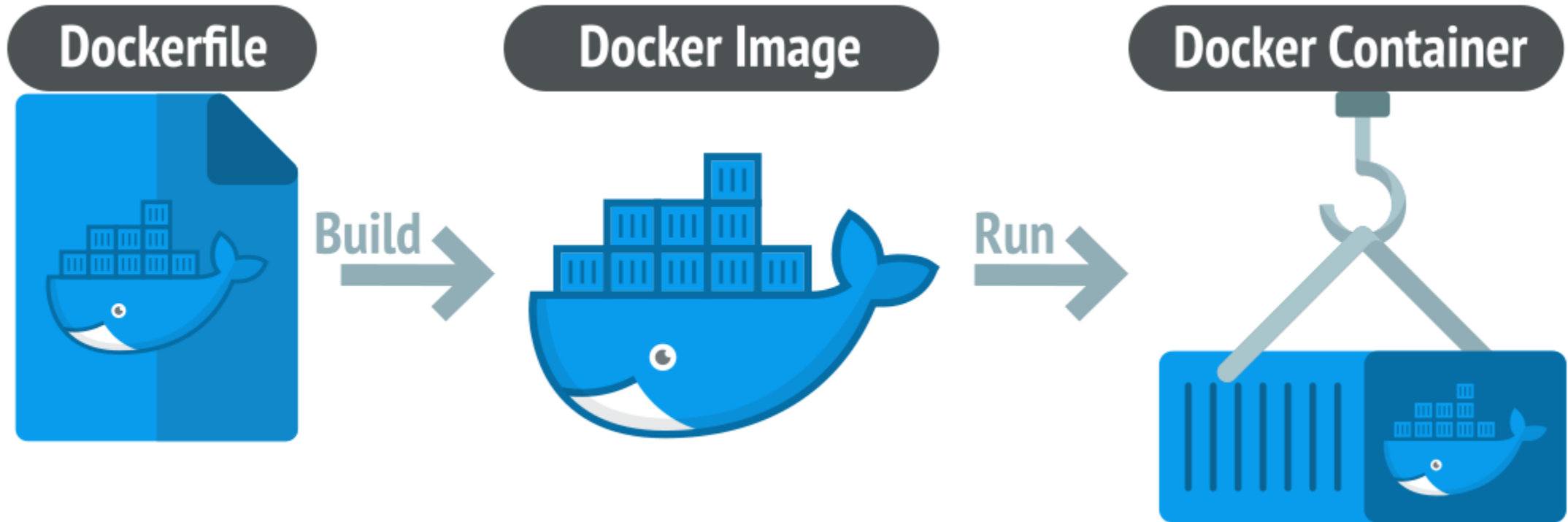
Отличия от виртуальных машин



Что нам дает использование docker?

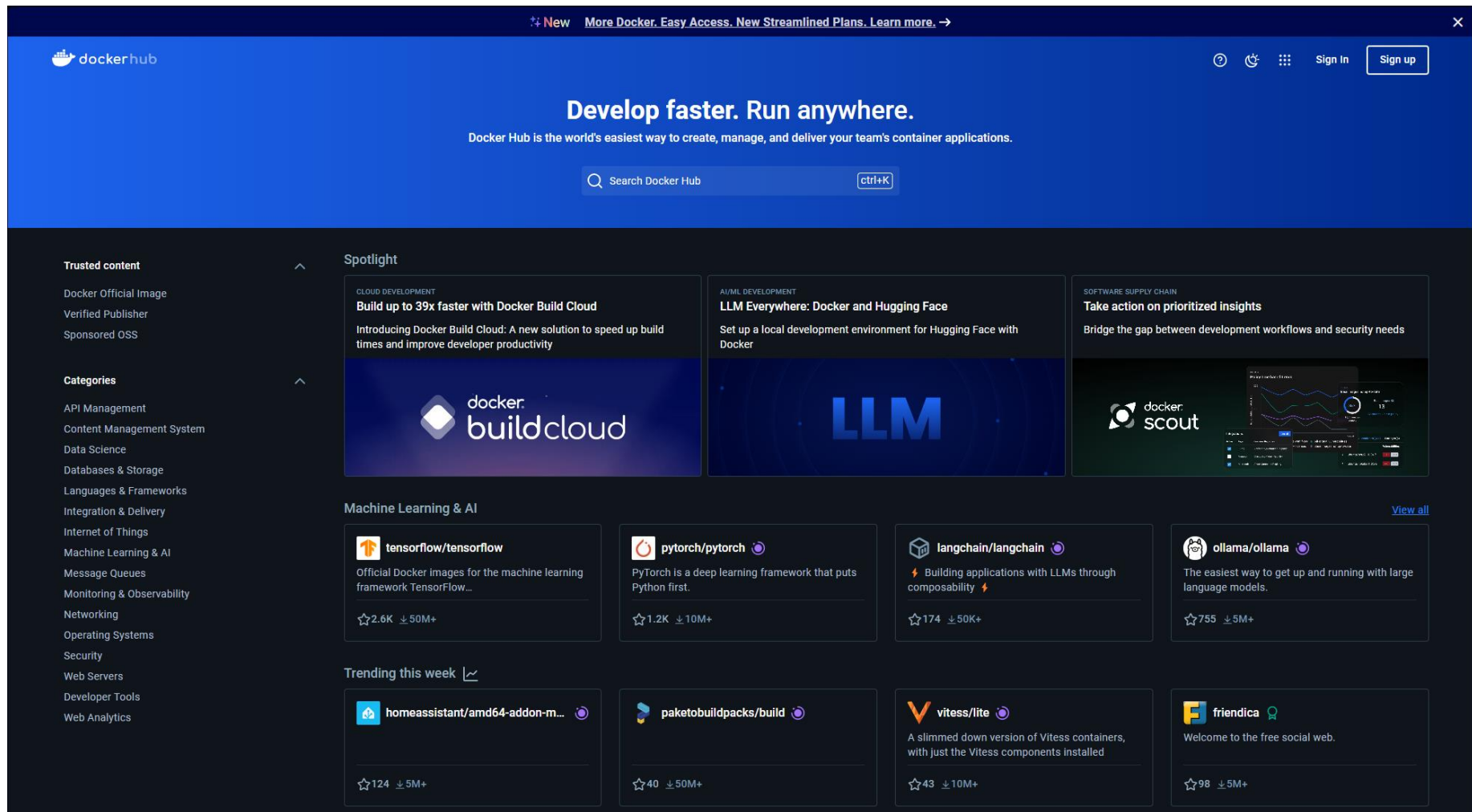
1. Абстракция от host-системы
2. Легковесное и изолированное окружение
3. Просто управление зависимостями
4. Стандартизация описания окружения, сборки, деплоймента

Dockerfile, Image, Container



Demo Hello World

Docker Registry (hub.docker.com)



The screenshot shows the Docker Hub homepage with a dark blue header and a dark sidebar. The main content area features a 'Spotlight' section with three featured items: 'docker buildcloud', 'LLM Everywhere: Docker and Hugging Face', and 'docker scout'. Below this is a 'Machine Learning & AI' section with four featured items: 'tensorflow/tensorflow', 'pytorch/pytorch', 'langchain/langchain', and 'ollama/ollama'. At the bottom is a 'Trending this week' section with four featured items: 'homeassistant/amd64-addon-m...', 'paketobuildpacks/build', 'vitess/lite', and 'friendica'.

Trusted content

- Docker Official Image
- Verified Publisher
- Sponsored OSS

Categories

- API Management
- Content Management System
- Data Science
- Databases & Storage
- Languages & Frameworks
- Integration & Delivery
- Internet of Things
- Machine Learning & AI
- Message Queues
- Monitoring & Observability
- Networking
- Operating Systems
- Security
- Web Servers
- Developer Tools
- Web Analytics

Spotlight

CLOUD DEVELOPMENT
Build up to 39x faster with Docker Build Cloud
Introducing Docker Build Cloud: A new solution to speed up build times and improve developer productivity

AI/ML DEVELOPMENT
LLM Everywhere: Docker and Hugging Face
Set up a local development environment for Hugging Face with Docker

SOFTWARE SUPPLY CHAIN
Take action on prioritized insights
Bridge the gap between development workflows and security needs

Machine Learning & AI

tensorflow/tensorflow
Official Docker images for the machine learning framework TensorFlow...
☆2.6K ±50M+

pytorch/pytorch
PyTorch is a deep learning framework that puts Python first.
☆1.2K ±10M+

langchain/langchain
Building applications with LLMs through composability
☆174 ±50K+

ollama/ollama
The easiest way to get up and running with large language models.
☆755 ±5M+

Trending this week

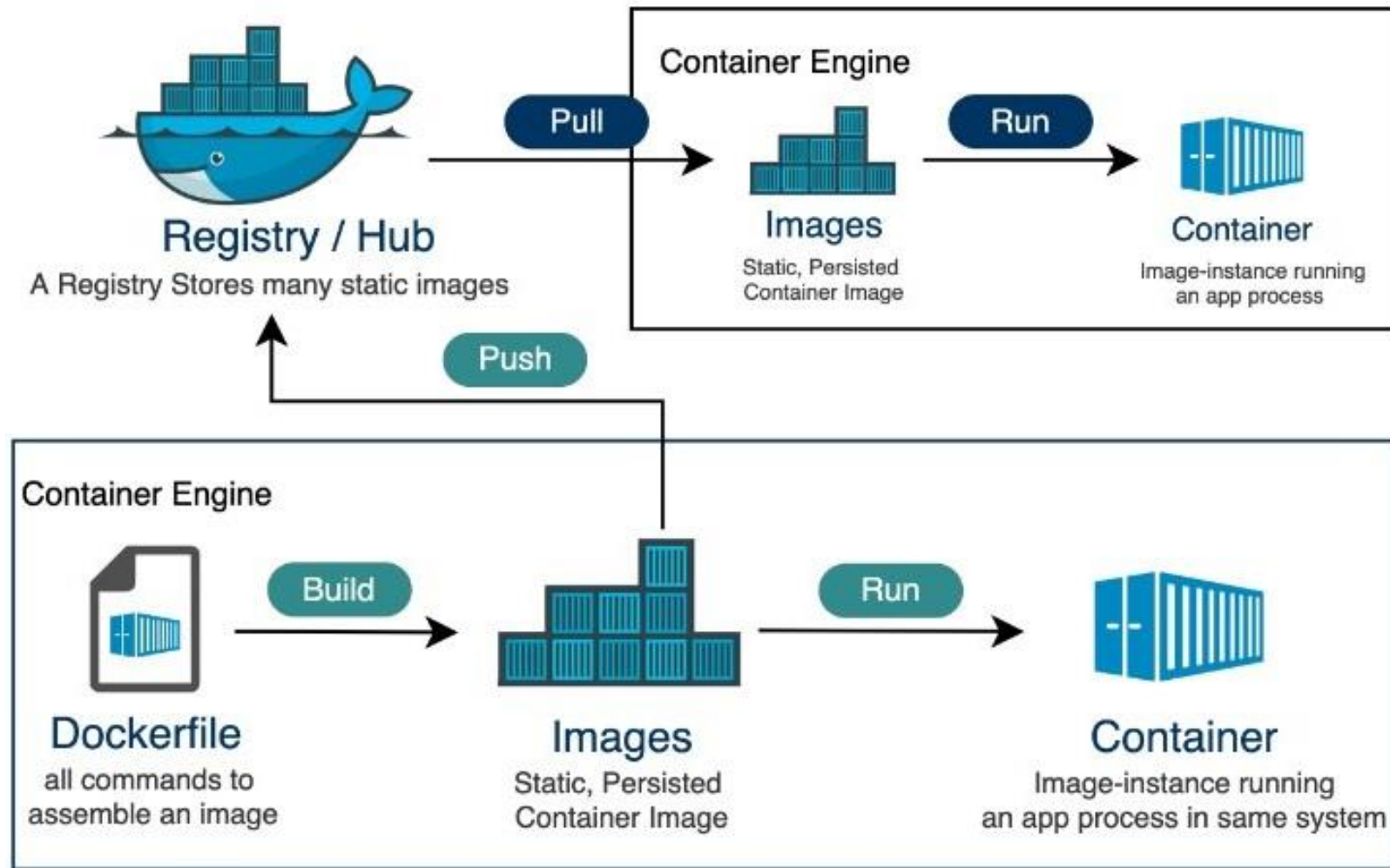
homeassistant/amd64-addon-m...
☆124 ±5M+

paketobuildpacks/build
☆40 ±50M+

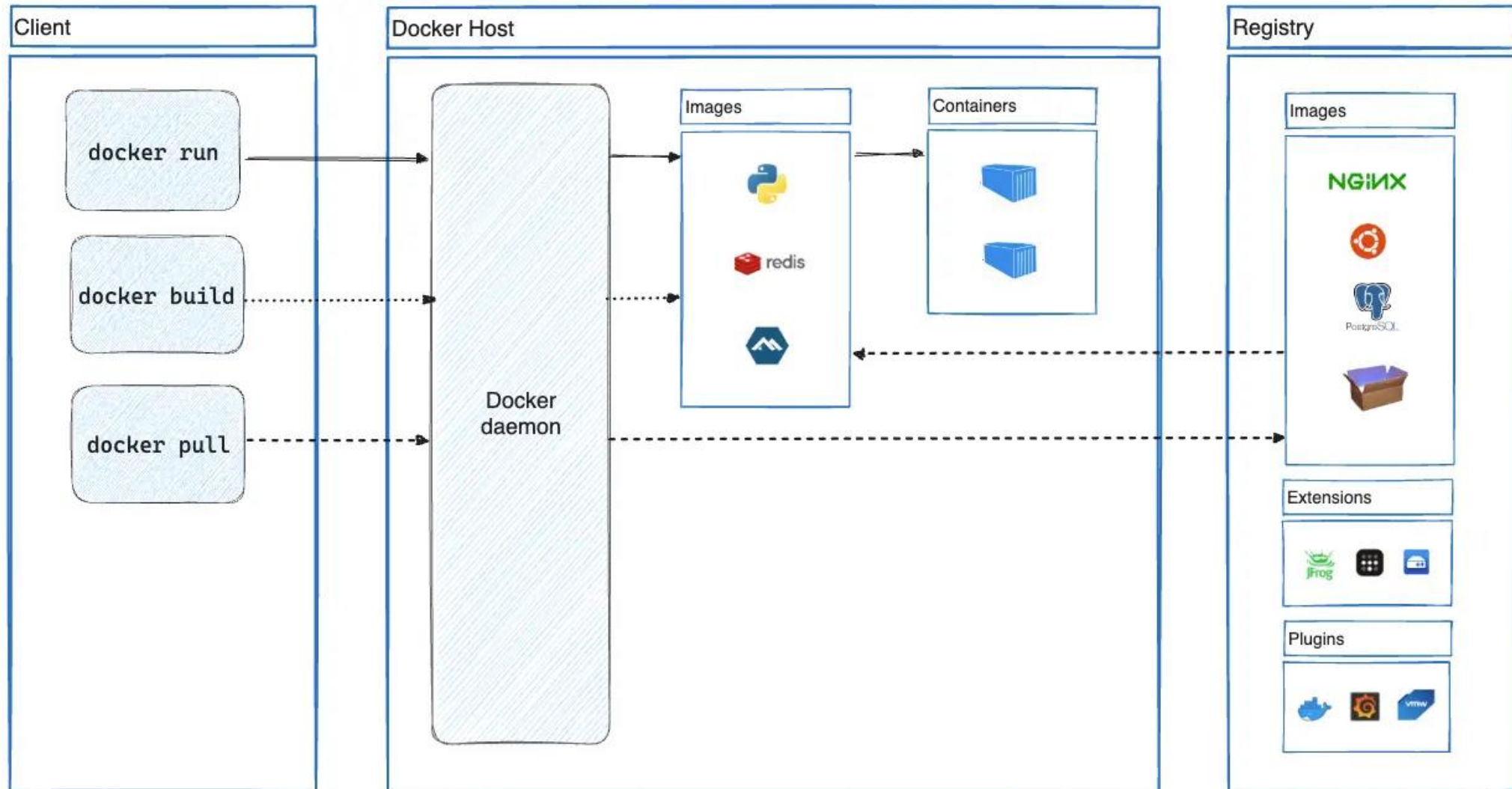
vitess/lite
A slimmed down version of Vitess containers, with just the Vitess components installed
☆43 ±10M+

friendica
Welcome to the free social web.
☆98 ±5M+

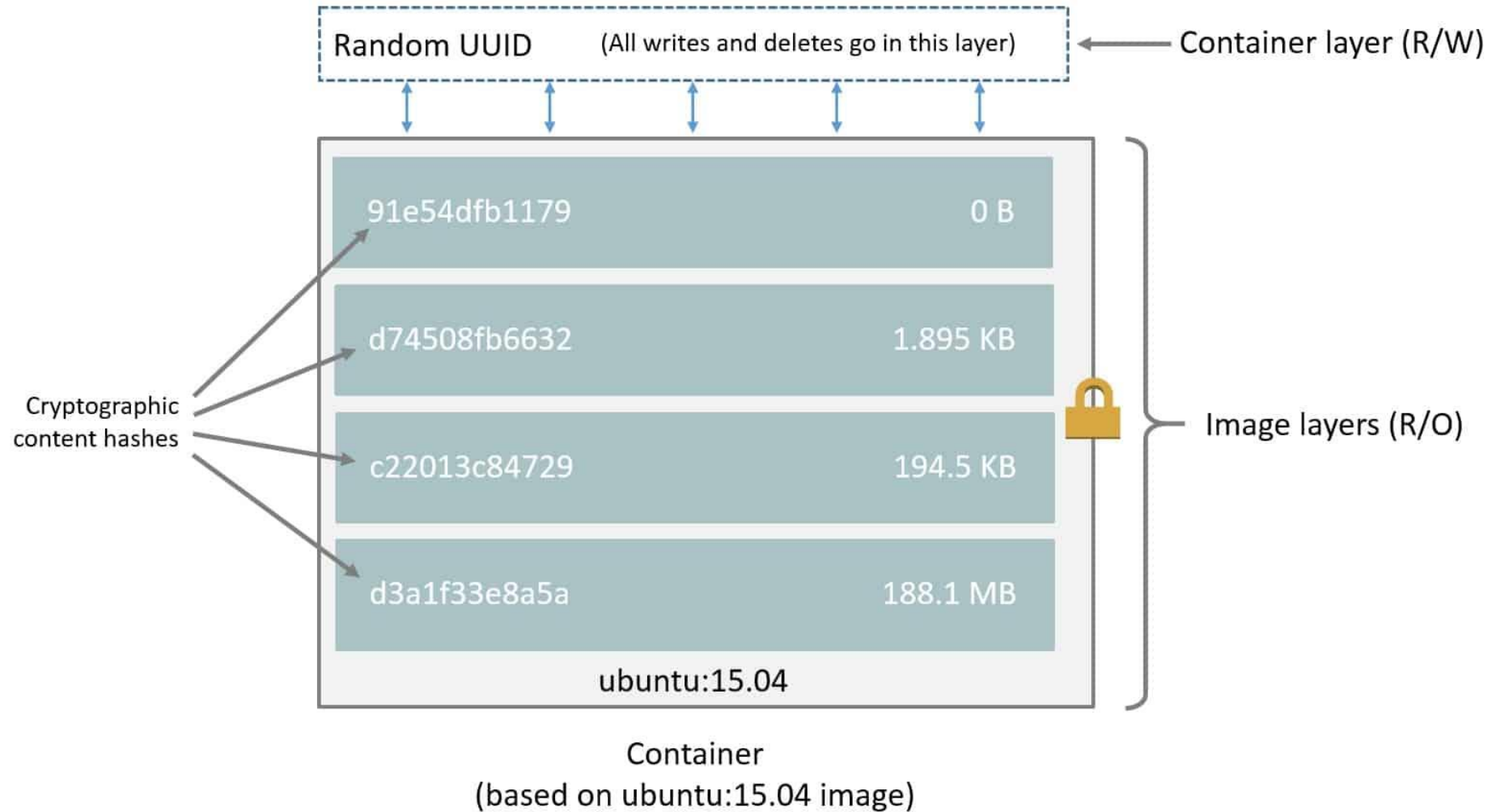
Docker Registry



Инфраструктура



Union FS



Demo Train and Inference Model