

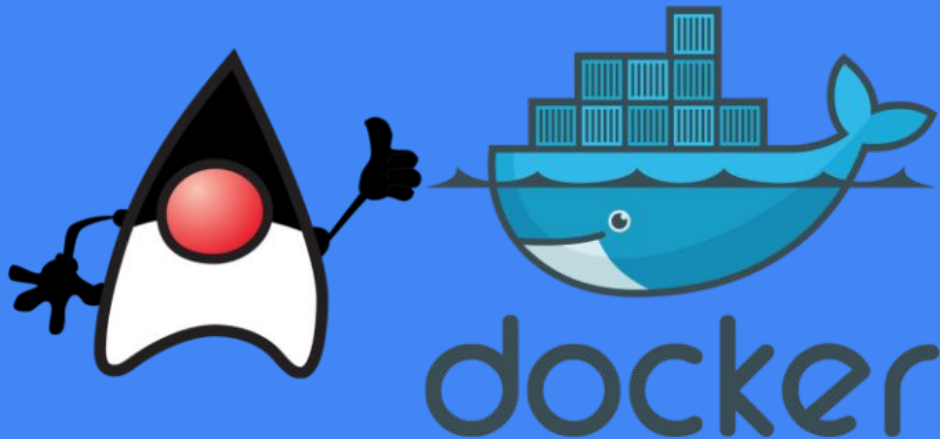
Efficiently Develop Highly-Scalable Applications using Docker Containers

Live Demo

Thiemo Morth

<https://github.com/mortht/t3c-demo>

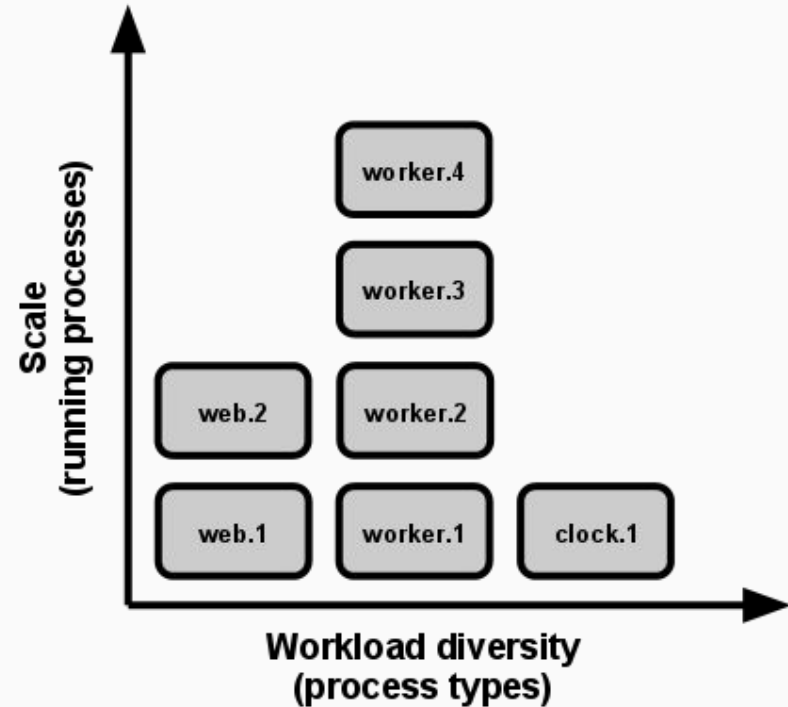
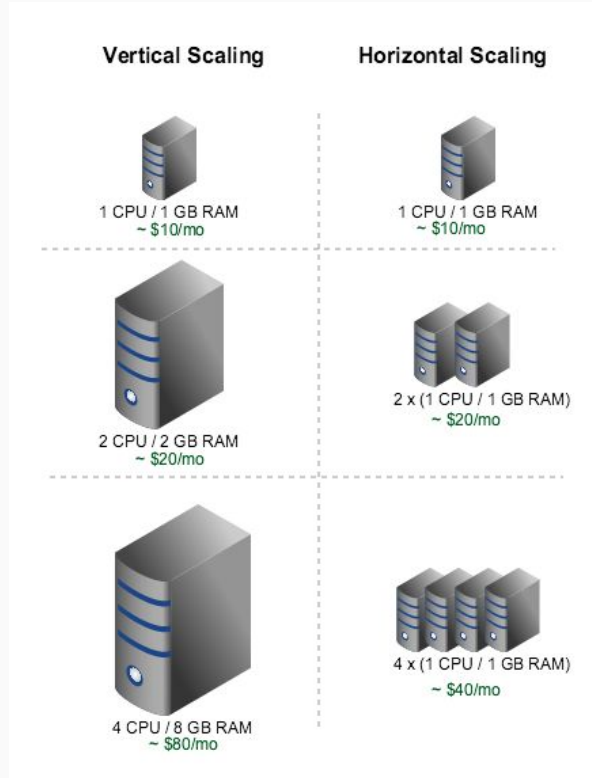
thiemo.morth@arhs-developments.com



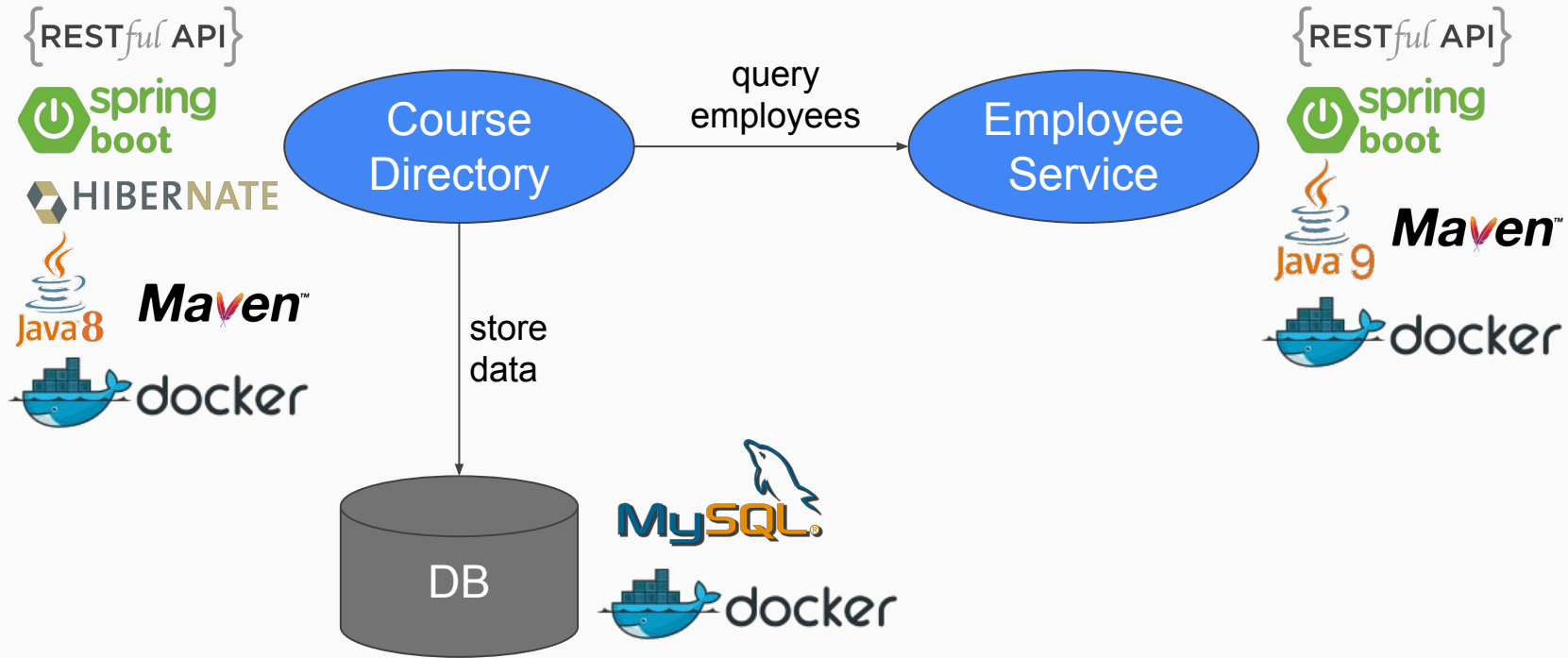
1. [...]
2. **Dependencies** - Explicitly declare and isolate dependencies
3. **Config** - Store config in the environment
4. **Backing services** - Treat backing services as attached resources
5. [...]
6. **Processes** - Execute the app as one or more stateless processes
7. **Port binding** - Export services via port binding
8. **Concurrency** - Scale out via the process model
9. [...]
10. **Dev/prod parity** - Keep dev, staging, and production as similar as possible
11. [...]
12. [...]

<https://12factor.net>

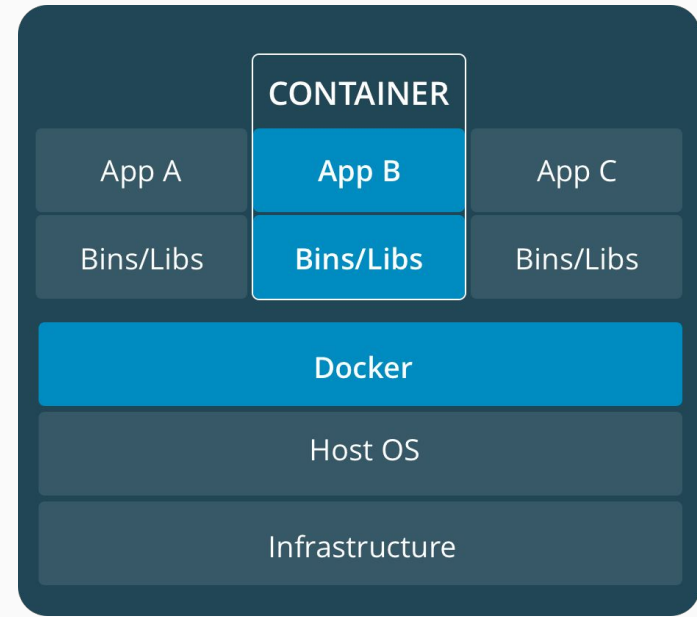
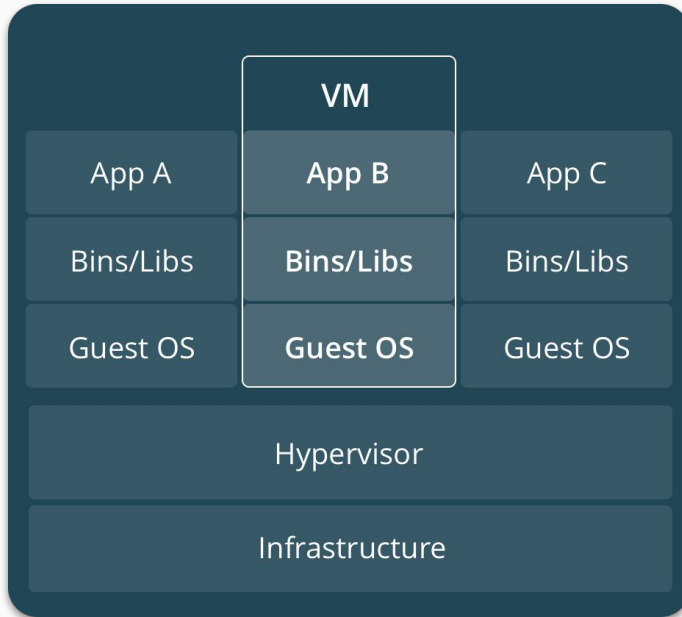
The Twelve-Factor App - Scaling



Demo Application - Course Directory

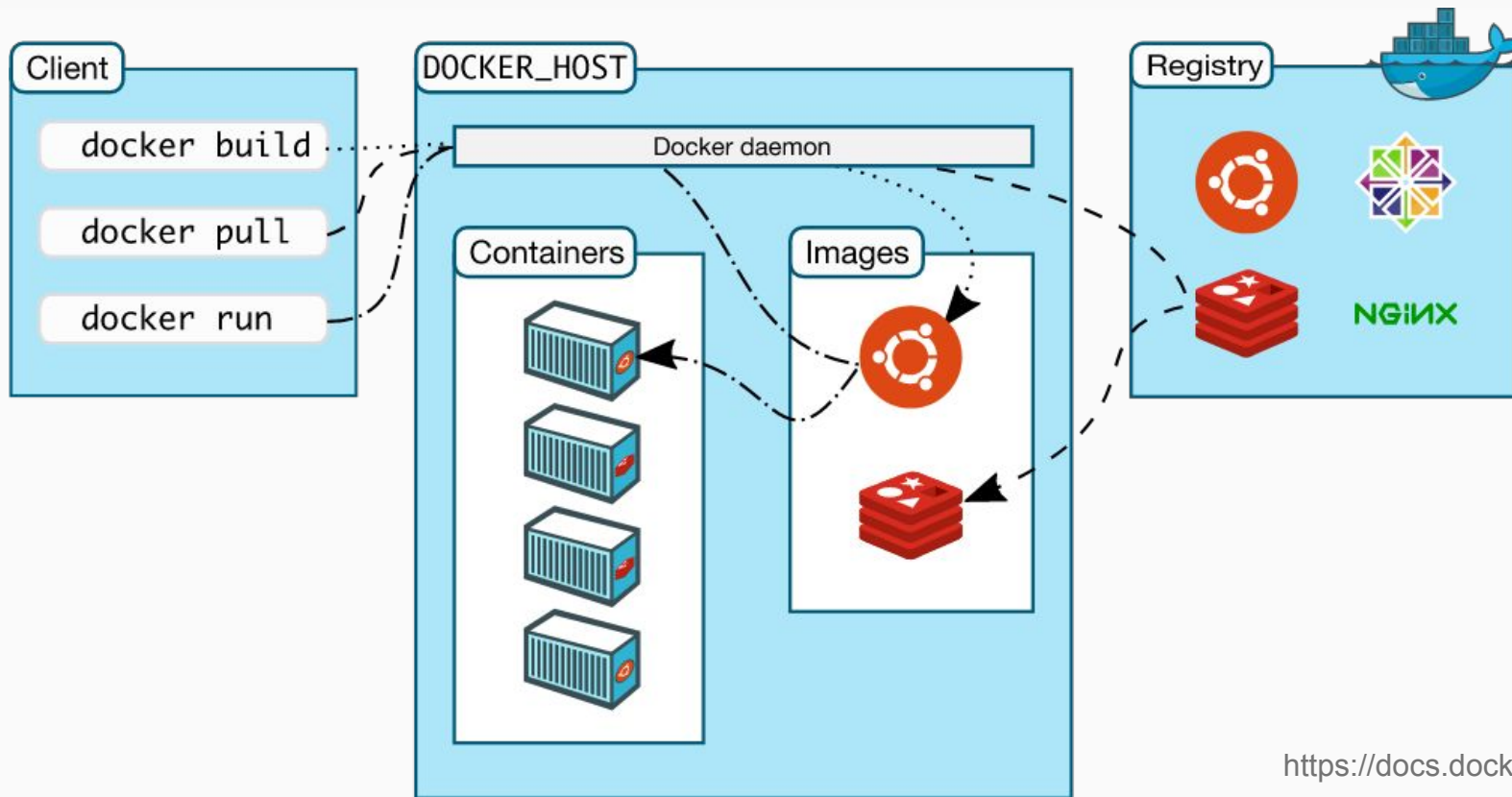


Docker - Container vs. VMs



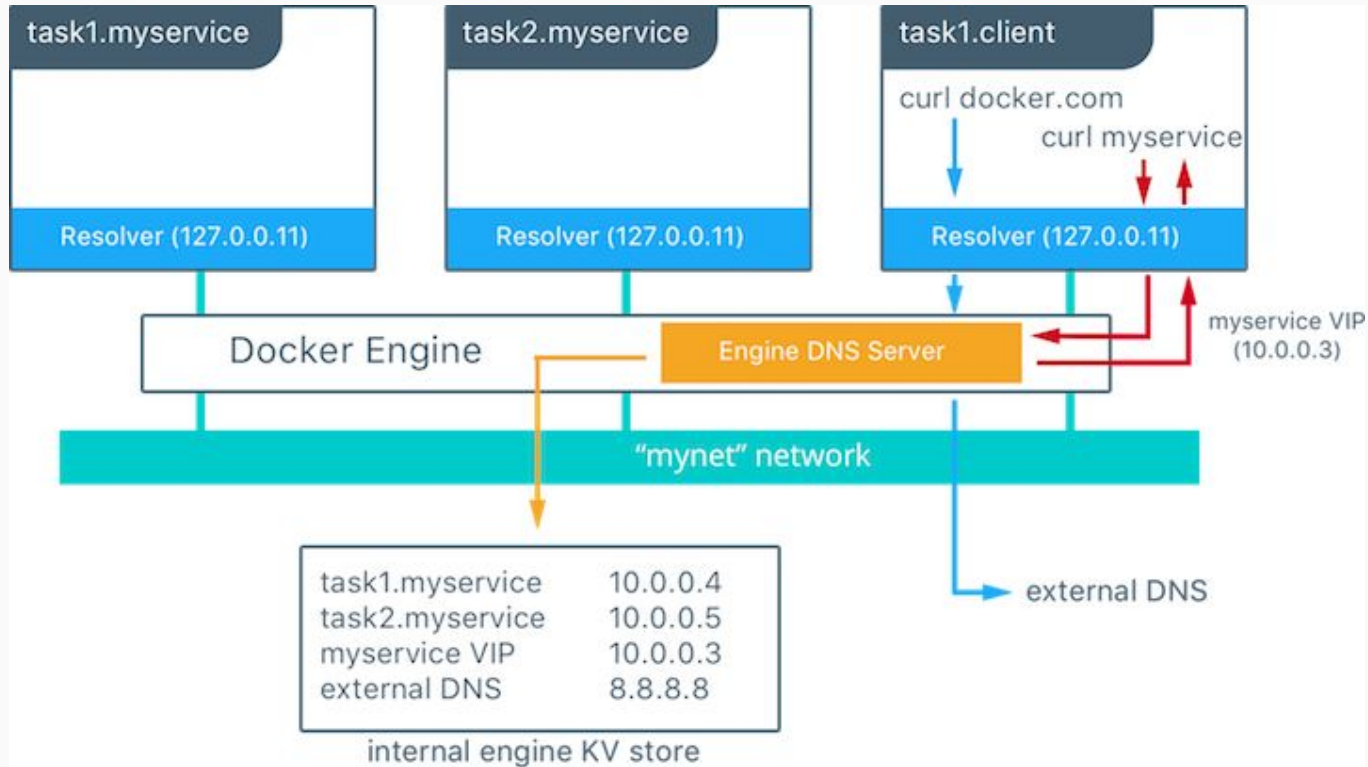
<https://docs.docker.com>

Docker - Architecture



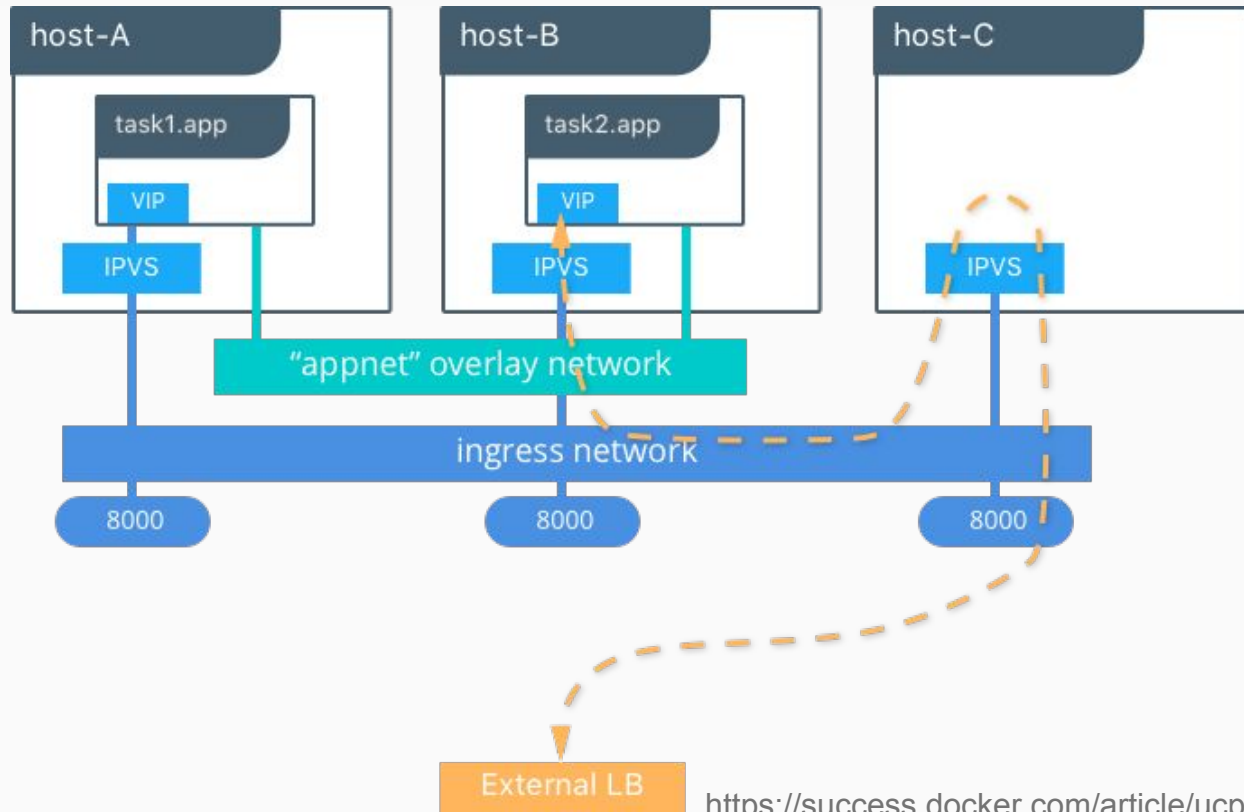
<https://docs.docker.com>

Docker Swarm - Service Discovery and Load-Balancing



<https://success.docker.com/article/ucp-service-discovery>

Docker Swarm - Ingress Load-Balancing



<https://success.docker.com/article/ucp-service-discovery>

Questions ?

