

Back 2 Basics : Docker

January 2020

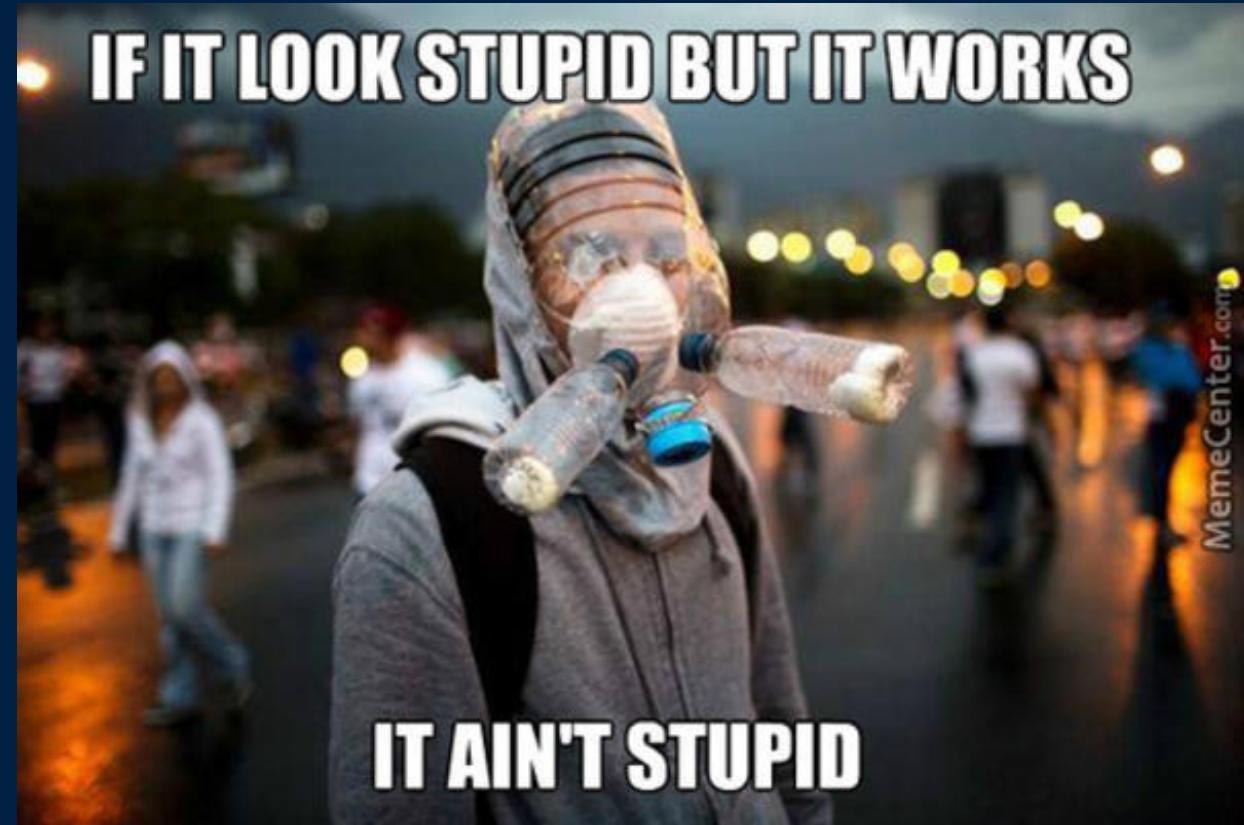
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Disclaimer

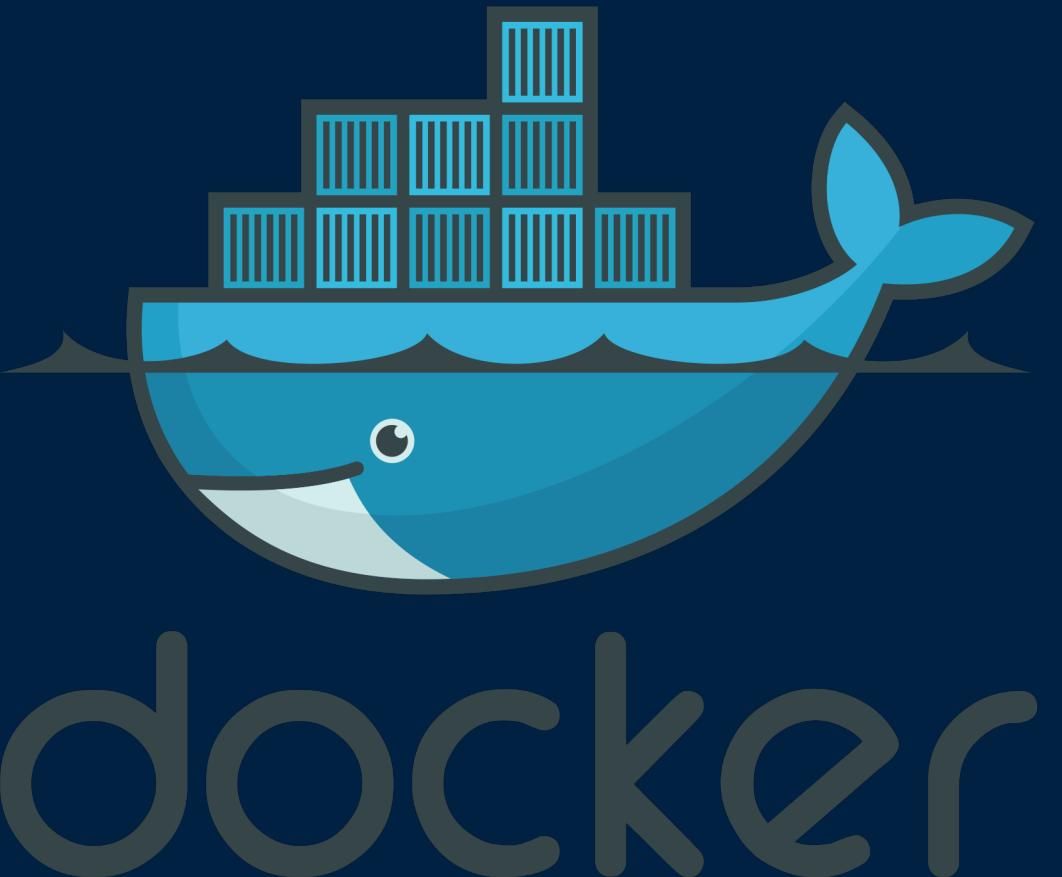
An infrastructur guys view on Docker

- My view on Docker
- My way of working with Docker
- Pretty sure it's not best practice.....but it works.....for me 😊

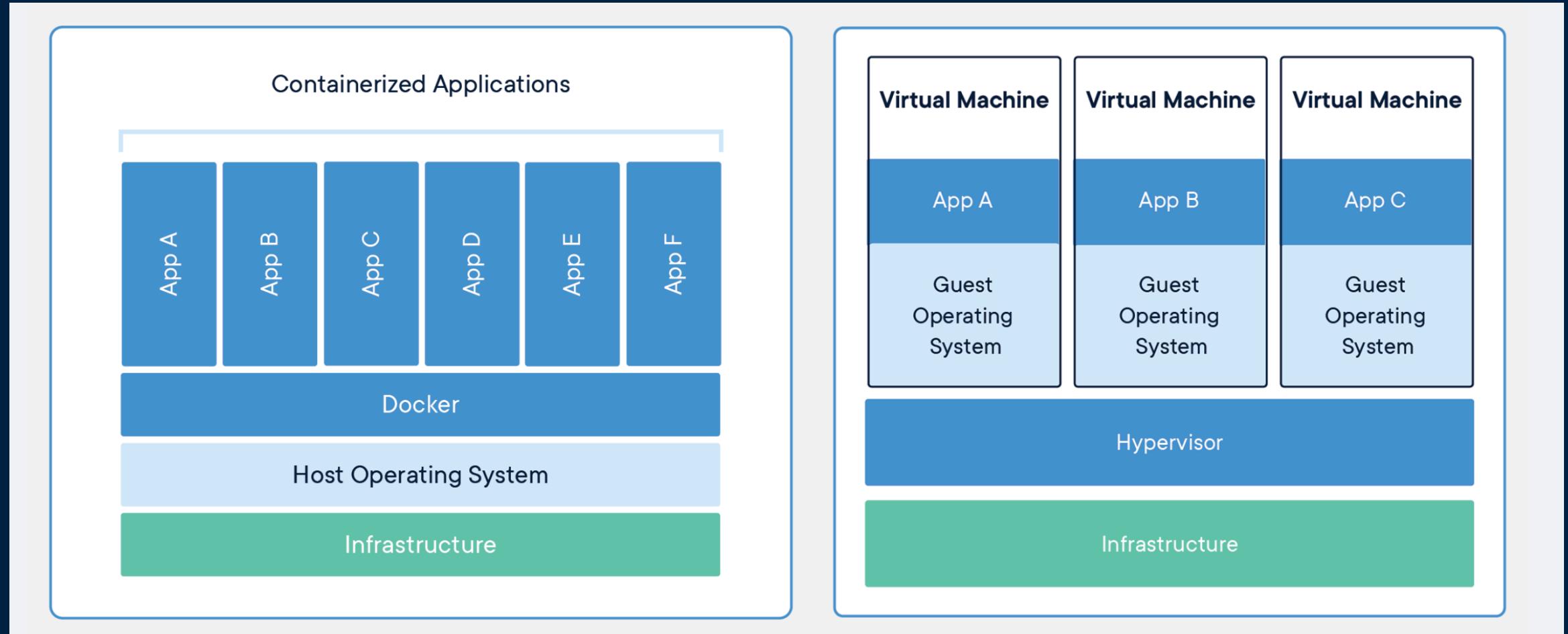


Agenda

- What is Docker
- Docker Hub (And others)
- Dockerfile
- Docker Compose



Docker vs VM's



Definition of a Docker container

 Joe Beda and Anderson Duboc アンダーソン liked
 cpuguy83 @cpuguy83 · 21h ...
Docker containers are designed to encapsulate a unit of work.
How you define that is up to you.
Since forever people have been saying it is for a single process, and
this is not true.

Docker starts a single process. What that process does is up to you
and your needs.

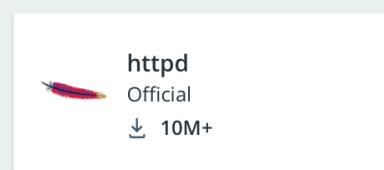
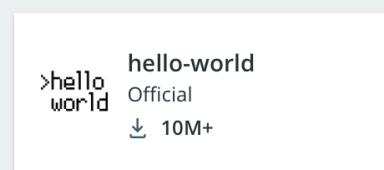
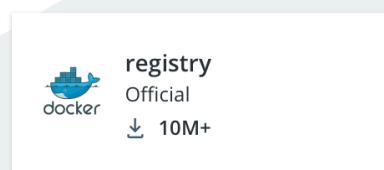
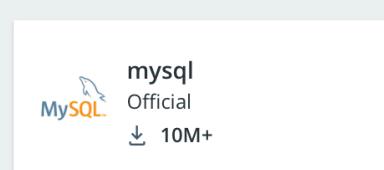
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Docker HUB (hub.docker.com)

Docker Hub is the world's largest library and community for container images

Browse over 100,000 container images from software vendors, open-source projects, and the community.

Official Images



Docker HUB – Rate limit

The rate limits of 100 container image **requests** per six hours for anonymous usage, and 200 container image **requests** per six hours for free Docker accounts are now in effect. Image **requests** exceeding these limits will be denied until the six hour window elapses.

Dockerfile

Docker can build images automatically by reading the instructions from a Dockerfile.

A Dockerfile is a text document that contains all the commands a user could call on the command line to assemble an image

“Demo 1”

- Create a Dockerfile
- Run thru (some of) the commands
- Run it
- Push it to Docker Hub

Docker Compose

Compose is a tool for defining and running multi-container Docker applications.

With Compose, you use a YAML file to configure your application's services.

Then, with a single command, you create and start all the services from your configuration

“Demo 2”

- Create a Docker-Compose file
- Run thru the config
- Run/Build it

“Demo 3”

- Deploy Hugo Static website
- Build in Dockerfile
- Defined and run in Docker-Compose
- With Let's Encrypt certificate
- Behind Traefic reverse proxy
- With a custom url

An aerial photograph of a large railway yard. Numerous shipping containers in various colors, including blue, red, yellow, and white, are stacked in long rows on flatcars. Several tank cars with different colored tops (yellow, red, orange) are also visible. The tracks are arranged in a complex grid pattern, and the surrounding area shows some greenery and industrial structures.

“Questions ?