



Docker for beginners

Build, Ship, and Run Anywhere

Agenda

- What is Docker
- How to run container
- How to build docker image
- How to ship docker image

What is Docker

- Container platform
- Lightweight virtualization
- Single responsibility
- Layer architecture
- No memory restrictions
- No CPU restrictions

Container vs VM

CONTAINER

App A

App B

App C

Bins/Libs

Bins/Libs

Bins/Libs

Docker

Host OS

Infrastructure

VM

App A

App B

App C

Bins/Libs

Bins/Libs

Bins/Libs

Guest OS

Guest OS

Guest OS

Hypervisor

Infrastructure

Docker

- **Repository** – storage for images
<http://hub.docker.com>
- **Image** – read-only template for container
- **Container** – instance of image write layer

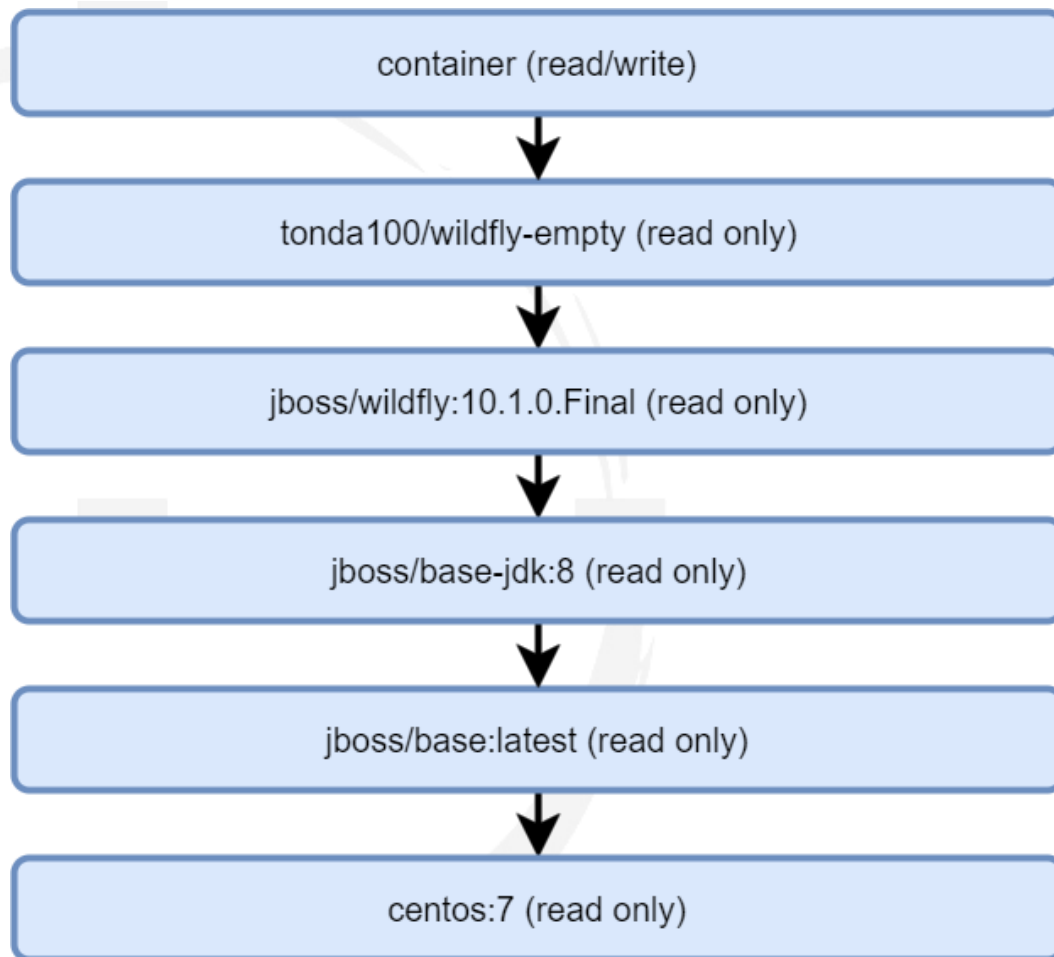


Demo

Docker Hub

docker run ...


Layer architecture



Dockerfile

- Build file for Image
- FROM
- Single command => new layer

Container lifecycle

- Pull docker image
 - Start container from image
 - Stop container
 - Remove container
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Docker features

- Environment variables
 - Volumes
 - Docker network
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Demo

FE image
BE image



Thank you