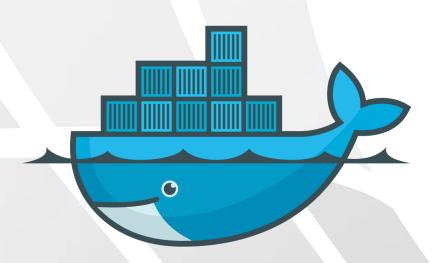


Module 04: Docker Architecture

Docker Workshop



Agenda

- Docker Components Overview
- ★ The Docker Engine (Deamon)
- Docker Images
- Docker Containers
- Docker Registries
- ★ Lab 02: Understanding the Docker components

Docker Components Overview



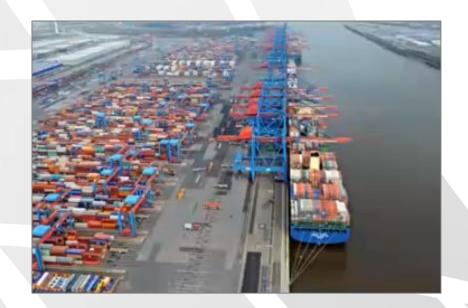
- **Shipping Yard:** The infrastructure that's needed to import and export goods
- Manifests: List of the container content plus instructions on how to build it
- **Containers:** A package with all the goods ready to be imported/exported

The Docker Engine (Deamon)

t's our Docker program that we install on each Docker host to provide us with a Docker environment and access to all Docker services.

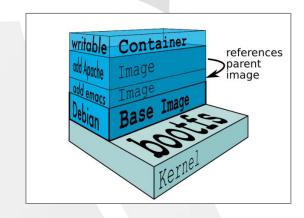
★ Contains the application infrastructure and runtime dependencies (Standardized).

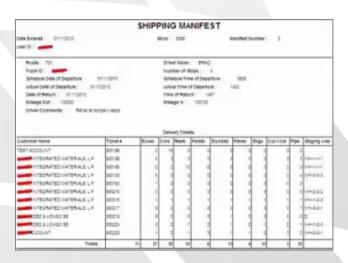
Run in the same way in your laptop, datacenter or in the cloud.



Docker Images

- ★ Are read only templates used to create containers
- Images are comprised of multiple layers
- ★ The first image is called the "Base Image"
- ★ Intermediate layers increases reusability, decrease disk usage, and speed up the build
- ★ The higher layers win where there are conflicts





Docker Containers

- We can think of them as running instances of an image.
- ★ Containers are created from images. Inside a container, it has all the binaries and dependencies needed to run the application.
- ★ Under the hood containers are Linux processes running in the Docker host



Docker Registries

- ★ Is a stateless, highly scalable server side application that stores and lets you distribute Docker images.
- ★ A docker registry contains multiple repositories (can be private or public)
- You can pull/push images from repositories
- Docker Hub is the default Docker Registry



Questions

Demo 02: Understanding the Docker Components





https://gitlab.com/sela-docker-workshop/demo-02