



[How many knows about: Vagrant, Puppet, Chef, ansible](#)

Cargo Transport Pre-1960

Multiplicity
of Goods



Do I worry
about how
goods
interact
(e.g. coffee)

Multiplicity
of methods
for
transporting
/ storing

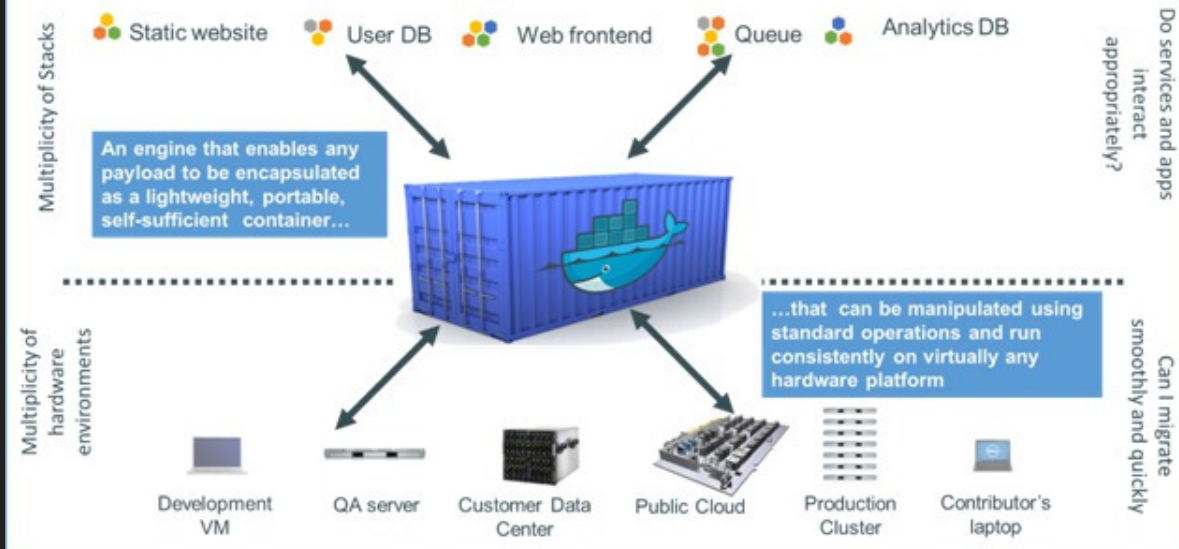


Can I
transport
quickly and
smoothly
(e.g. from)

Source: Docker



Docker is a shipping container system for code





- [Developer makes sure its code runs as it expected](#)
- [DevOps be sure, it is in the correct place and meets its requirements](#)

So what is in it for us?

- Content & Hardware agnostic
- Automation
- Highly efficient
- Separation of duties
- Build once, run anywhere
- Fast deployment, testing, debugging
- Cost efficient
- Perfect for microservice and integrations (API)
- Open source
- Simplify DevOps
- Version control capabilities

What are the risks?

- The containers share the same kernel and are therefore less isolated than real VMs. A bug in the kernel affects every container.
- Limited tools
- Cannot replace VMs 100% as not every system is suitable to run in docker

Let's learn about terms

- Dockerfile
- Image
- Container
- Docker Hub

Dockerfile

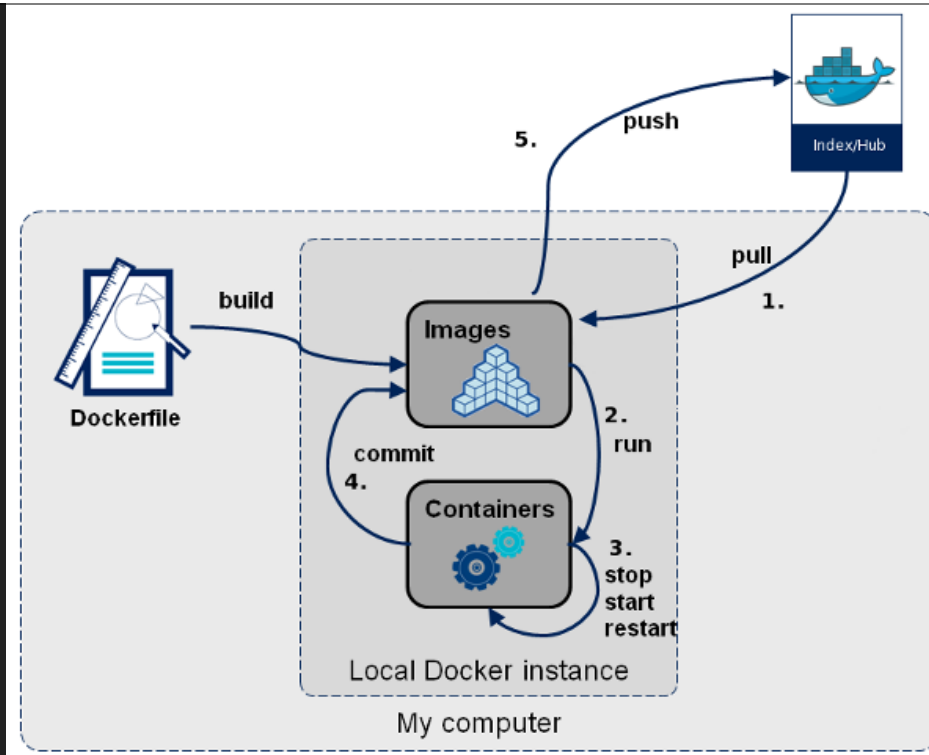
Docker can build images automatically by reading the instructions from a Dockerfile. A Dockerfile is a text document that contains all the commands a user could call on the command line to assemble an image.

Docker Image vs Docker Container

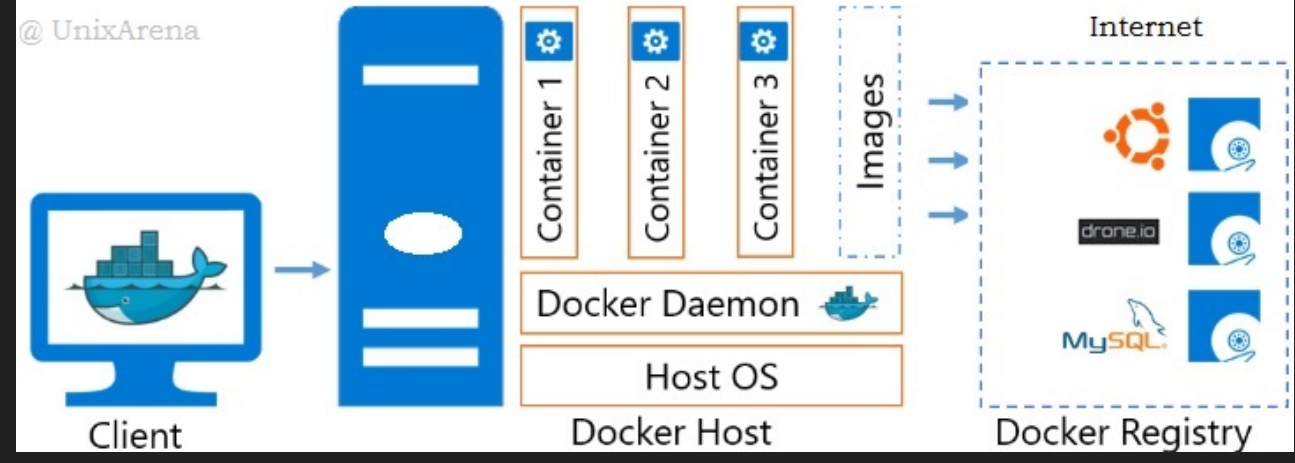
An image is an inert, immutable, file that's essentially a snapshot of a container. Images are created with the build command, and they'll produce a container when started with run.

Docker hub

Docker Hub is a cloud-based registry service which allows you to link to code repositories, build your images and test them, stores manually pushed images. It provides a centralized resource for container image discovery, distribution and change management, user and team collaboration, and workflow automation throughout the development pipeline.



@ UnixArena



Let's make something

- Installing docker
- Installing docker captain
- Clone repo: <https://github.com/dijam/docker-example>

<https://github.com/dijam/docker-example>
Docker installation: <https://docs.docker.com/docker-for-mac/install/>
Docker Captain: <https://getcaptain.co>

WHAT DO WE WANT?



TO DELIVER BETTER SOFTWARE!



WHEN DO WE WANT IT?

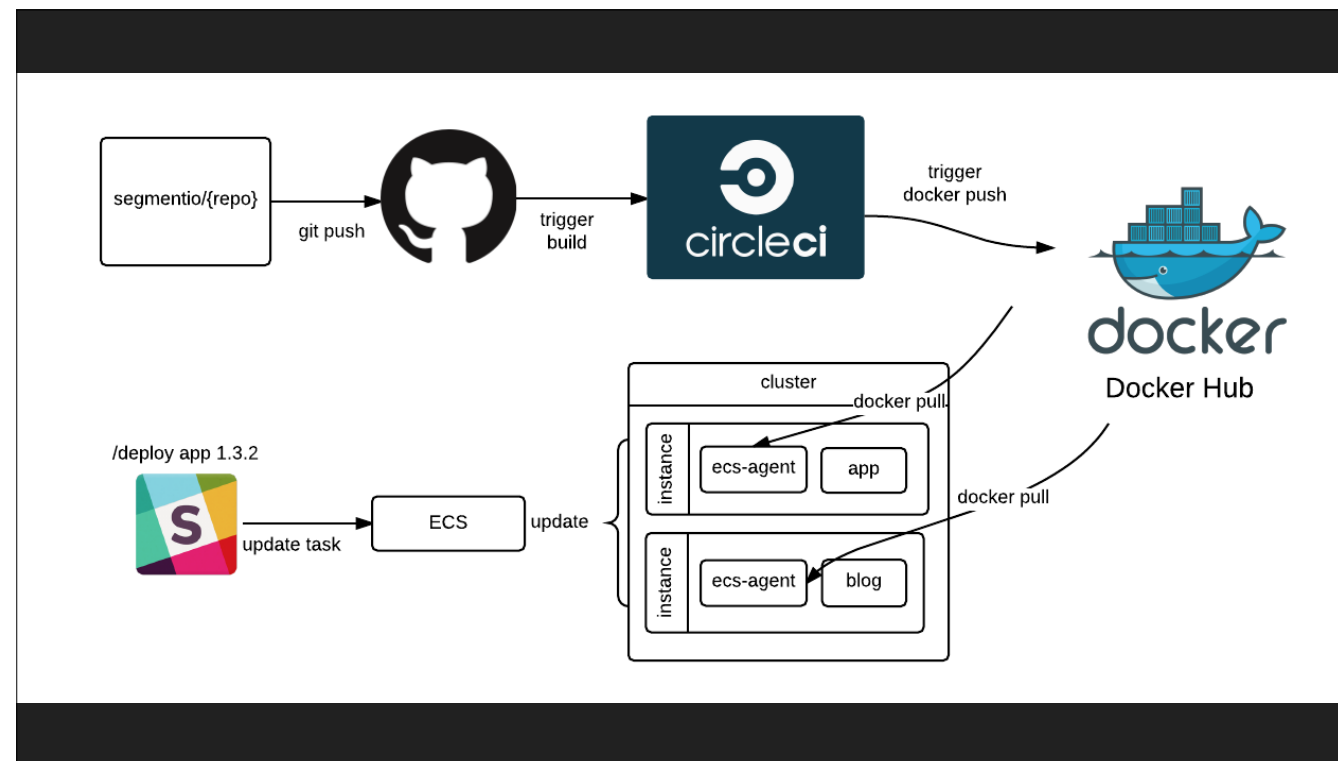


CONTINUOUSLY!!!

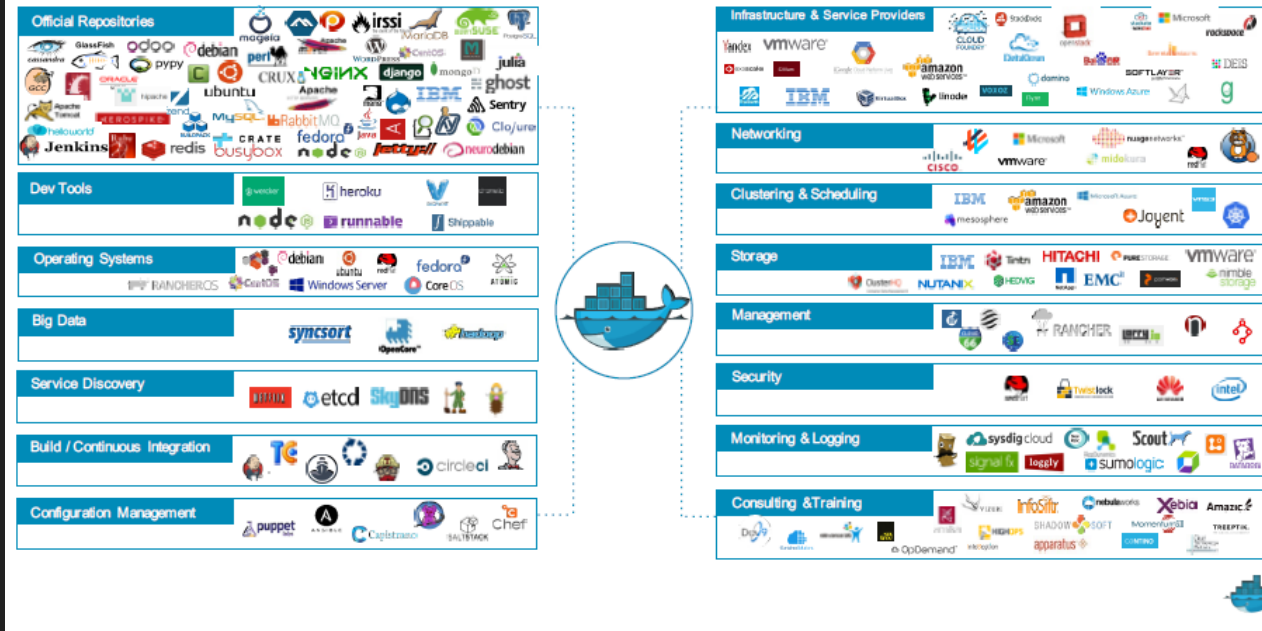


memecenter.com





The Docker ecosystem



Empty slide

95.3% copy-paste

