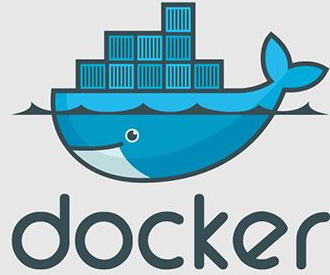


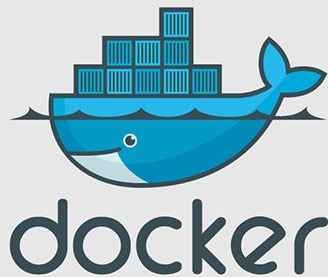
BUILD, SHIP, RUN



CHECHTALK #8

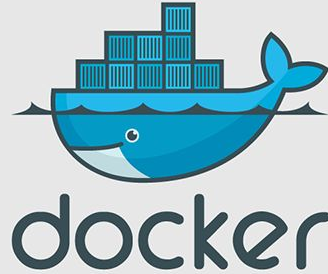
CONTENTS

- WHAT IS IT?
- HOW IT WORKS
- TERMINOLOGY
- COMMANDS
- DEMO



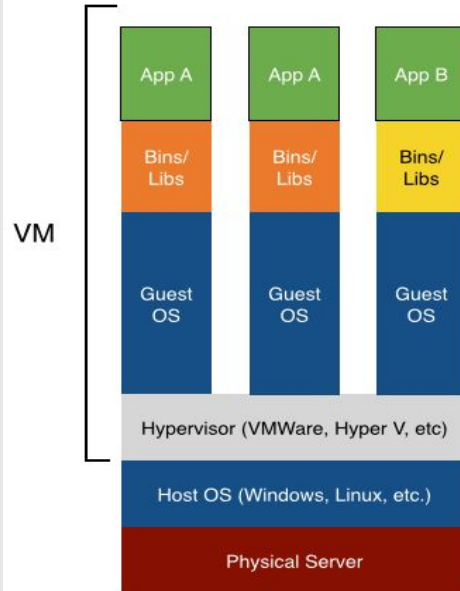
WHAT IS IT?

- DOCKER CONTAINER
 - LINUX CGROUPS
 - KERNEL NAMESPACES
 - DOCKER IMAGE
 - LIFECYCLE
- DOCKER IMAGE
- DOCKER REGISTRY
- DOCKERFILE



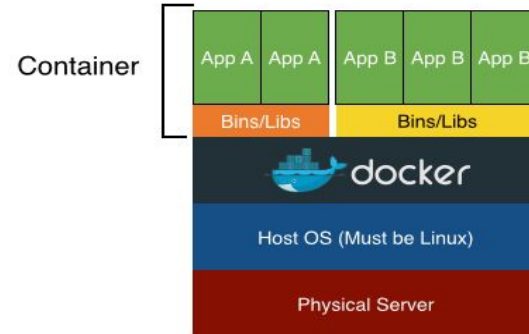
DOCKER CONTAINER

Container vs. VMs



Virtual Machine

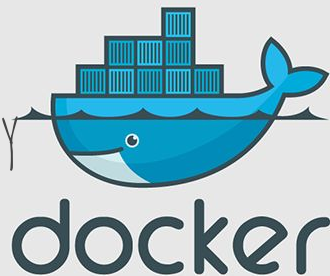
Containers are isolated and share the Operating System



Container

DOCKER IMAGE

- NOT A FILESYSTEM
- NOT A VHD
- TAR FILE
- FITS INTO THE DOCKER REGISTRY
 - GIT REPO SEMANTICS
 - PULL
 - PUSH
 - COMMIT
- HAS A HIERARCHY



Base Image

Child Image

Grandchild Image





DOCKER REGISTRY

← → ↻ <https://hub.docker.com/explore/> ☆ ⚙️ 🔍 📄 📱

Docker Store is the new place to discover public Docker content. [Try out the beta now →](#)

Dashboard Explore Organizations 🔍 Search Create 👤 vezzmax ▾

Explore Official Repositories

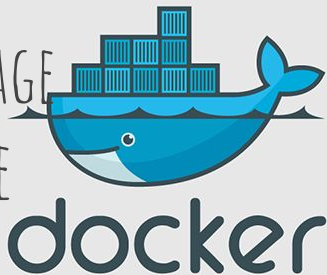
 nginx official	4.4K STARS	10M+ PULLS	> DETAILS
 busybox official	832 STARS	10M+ PULLS	> DETAILS
 redis official	2.8K STARS	10M+ PULLS	> DETAILS
 ubuntu official	4.9K STARS	10M+ PULLS	> DETAILS

\$ docker search IS ANOTHER OPTION

CHECTALK #8

DOCKERFILE

- LIKE A MAKEFILE
- EXTENDS FROM A BASE IMAGE
- RESULTS IN A NEW DOCKER IMAGE
- IMPERATIVE, NOT DECLARATIVE



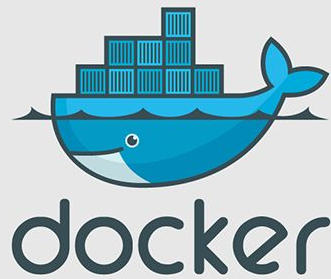
```
FROM centos:centos6
MAINTAINER Maximo Vezzosi
RUN yum -y install httpd
EXPOSE 80
ADD start.sh /start.sh
CMD /start.sh
```

DOCKER CLI COMMANDS

Commands:

attach	Attach to a running container	node	Manage Docker Swarm nodes
build	Build an image from a Dockerfile	pause	Pause all processes within one or more containers
commit	Create a new image from a container's changes	port	List port mappings or a specific mapping for the container
cp	Copy files/folders between a container and the local filesystem	ps	List containers
create	Create a new container	pull	Pull an image or a repository from a registry
diff	Inspect changes on a container's filesystem	push	Push an image or a repository to a registry
events	Get real time events from the server	rename	Rename a container
exec	Run a command in a running container	restart	Restart a container
export	Export a container's filesystem as a tar archive	rm	Remove one or more containers
history	Show the history of an image	rmi	Remove one or more images
images	List images	run	Run a command in a new container
import	Import the contents from a tarball to create a filesystem image	save	Save one or more images to a tar archive (streamed to STDOUT by default)
info	Display system-wide information	search	Search the Docker Hub for images
inspect	Return low-level information on a container, image or task	service	Manage Docker services
kill	Kill one or more running containers	start	Start one or more stopped containers
load	Load an image from a tar archive or STDIN	stats	Display a live stream of container(s) resource usage statistics
login	Log in to a Docker registry.	stop	Stop one or more running containers
logout	Log out from a Docker registry.	swarm	Manage Docker Swarm
logs	Fetch the logs of a container	tag	Tag an image into a repository
network	Manage Docker networks	top	Display the running processes of a container
		unpause	Unpause all processes within one or more containers
		update	Update configuration of one or more containers
		version	Show the Docker version information
		volume	Manage Docker volumes
		wait	Block until a container stops, then print its exit code

DEMO



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QUESTIONS?



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