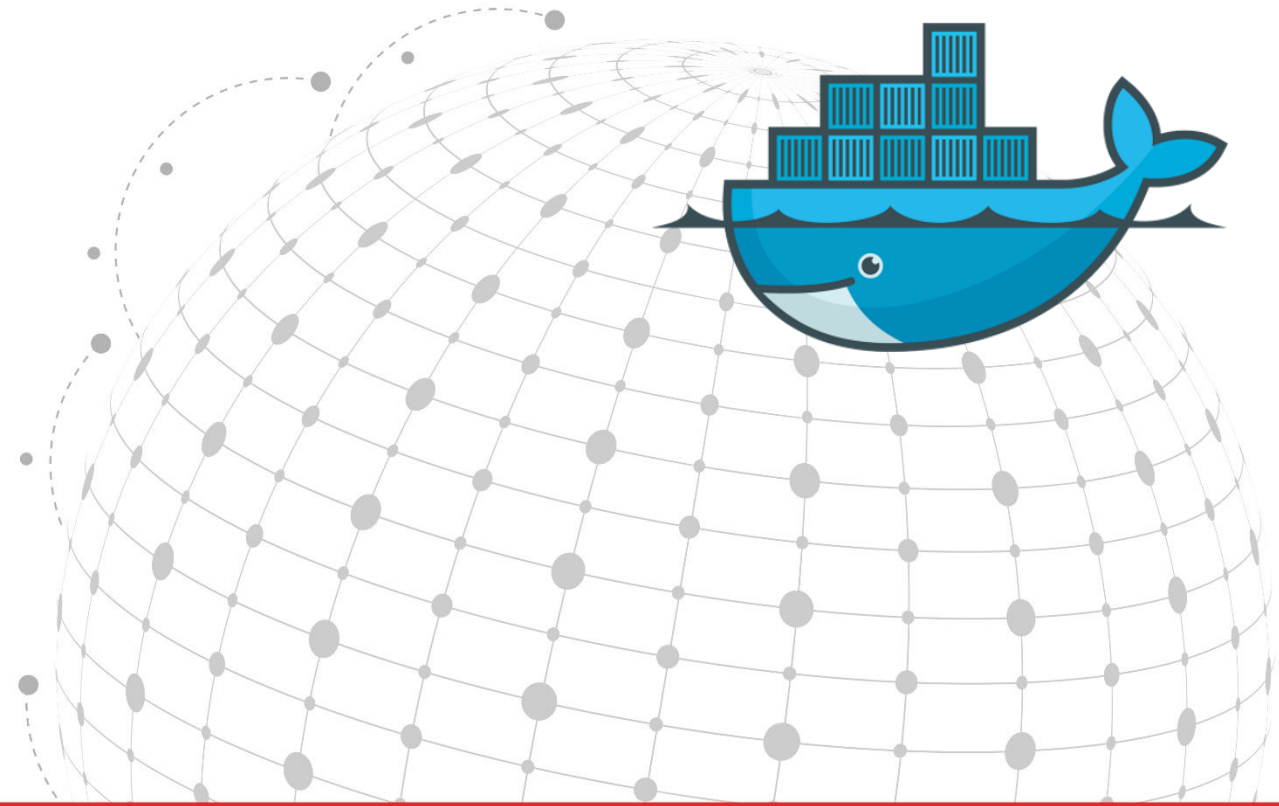




Creative Software



Introduction To Docker










Presenter Name: Kanishka Dilshan

Designation: Associate Software Architect

- › The Challenge
- › Docker Aproach
- › Docker vs VMs
- › Docker Architecture
- › Docker Basics
- › Demo
- › Q&A

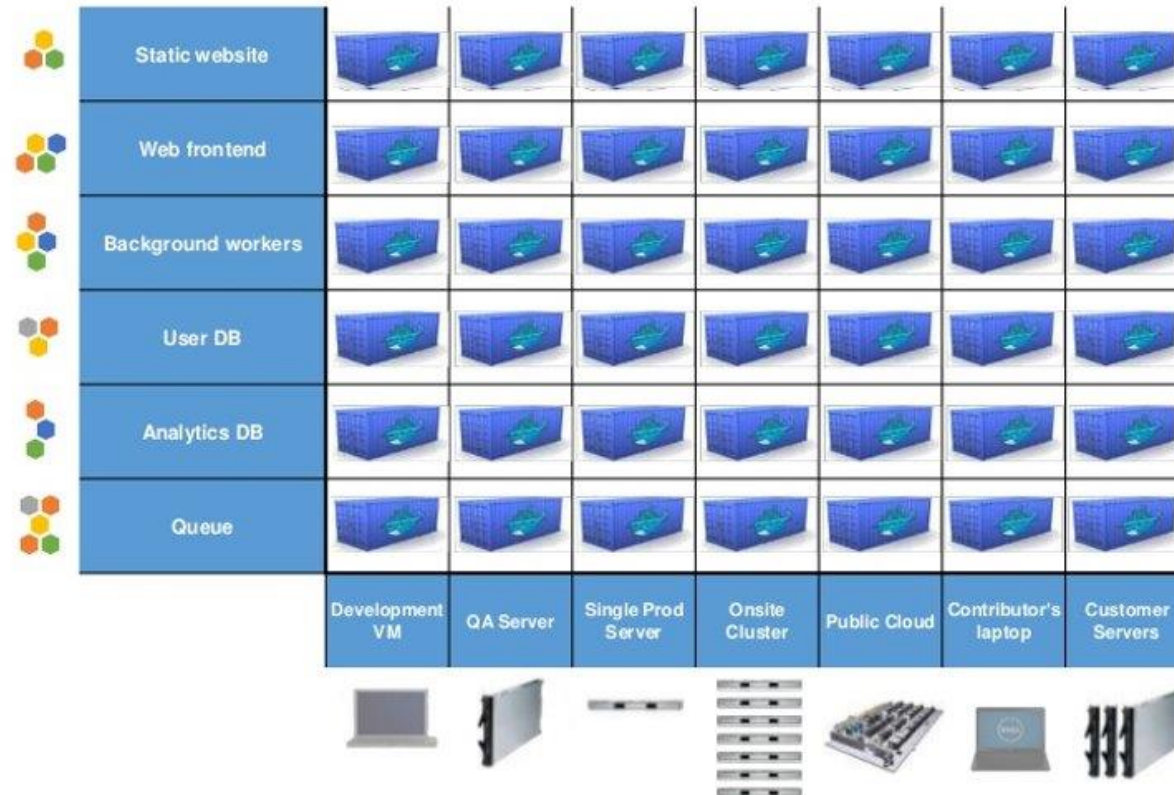
THE CHALLENGE

The Matrix From Hell

	Static website	?	?	?	?	?	?	?
	Web frontend	?	?	?	?	?	?	?
	Background workers	?	?	?	?	?	?	?
	User DB	?	?	?	?	?	?	?
	Analytics DB	?	?	?	?	?	?	?
	Queue	?	?	?	?	?	?	?
		Development VM	QA Server	Single Prod Server	Onsite Cluster	Public Cloud	Contributor's laptop	Customer Servers
								



Docker eliminates the matrix from Hell



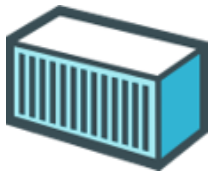
DOCKER APPROACH



- Build



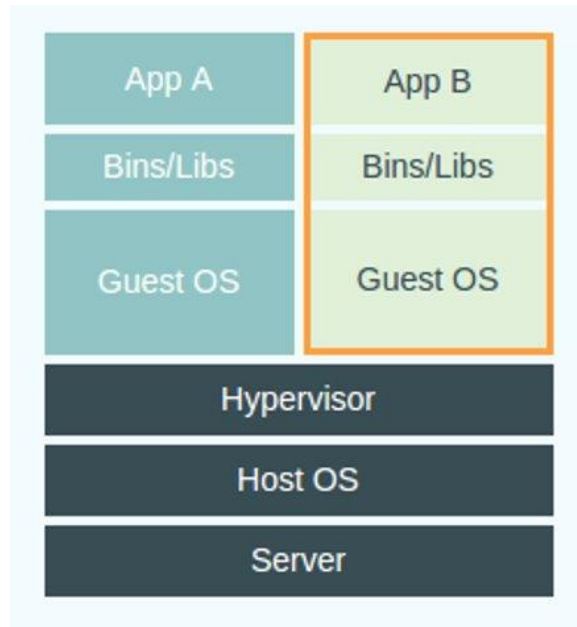
- Ship



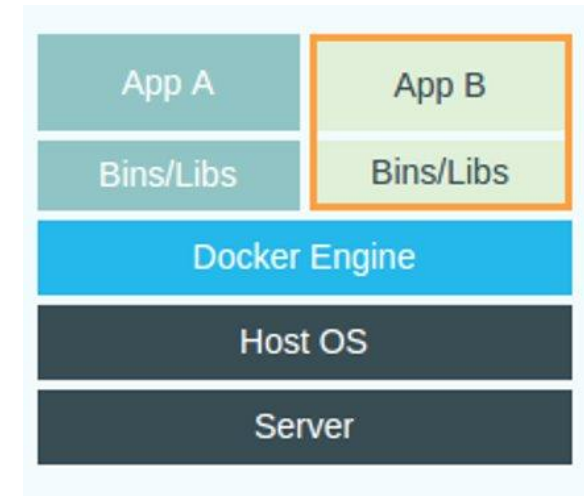
- Run

DOCKER vs VMs

Docker vs VMs



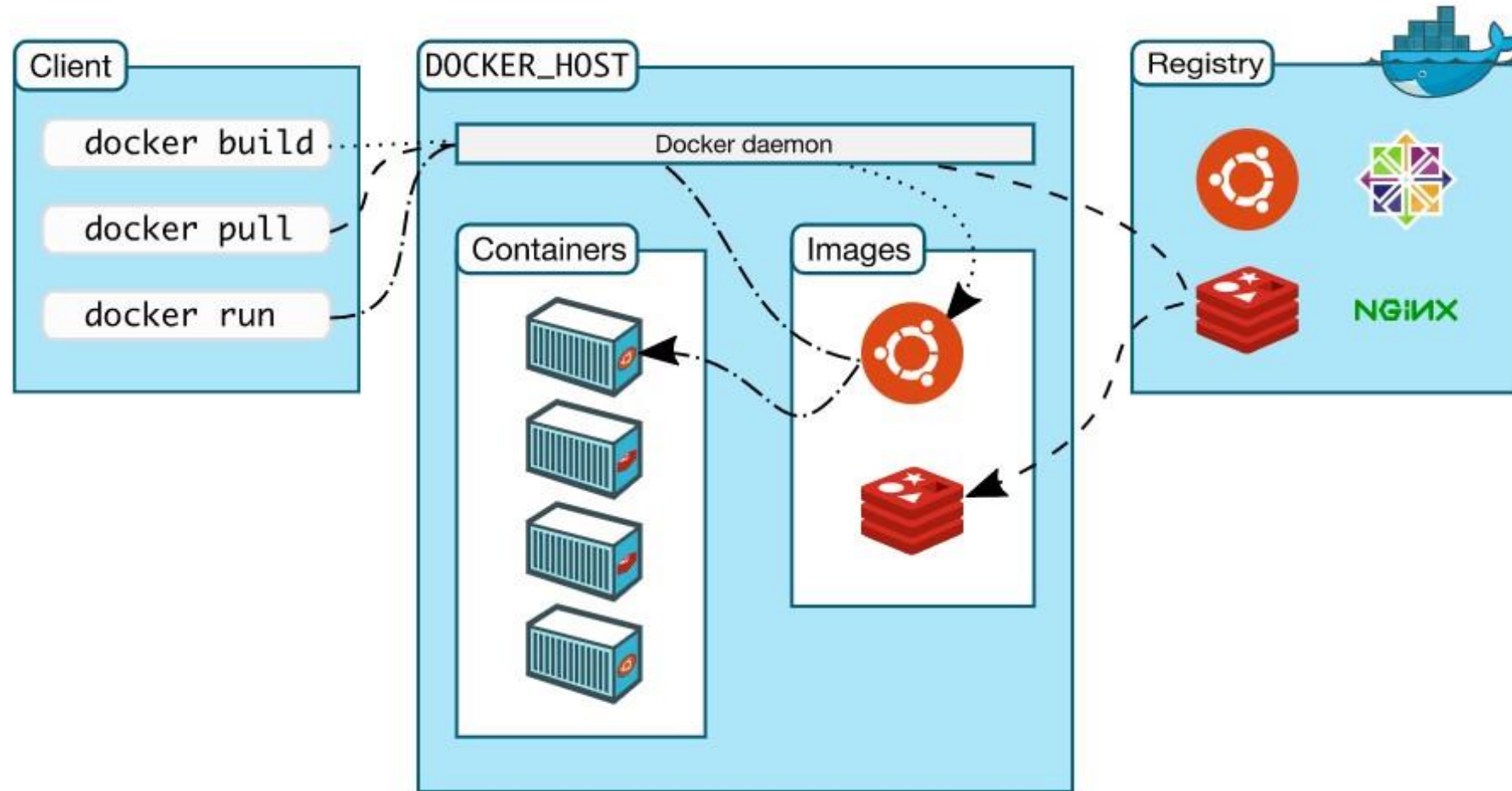
Virtual Machine



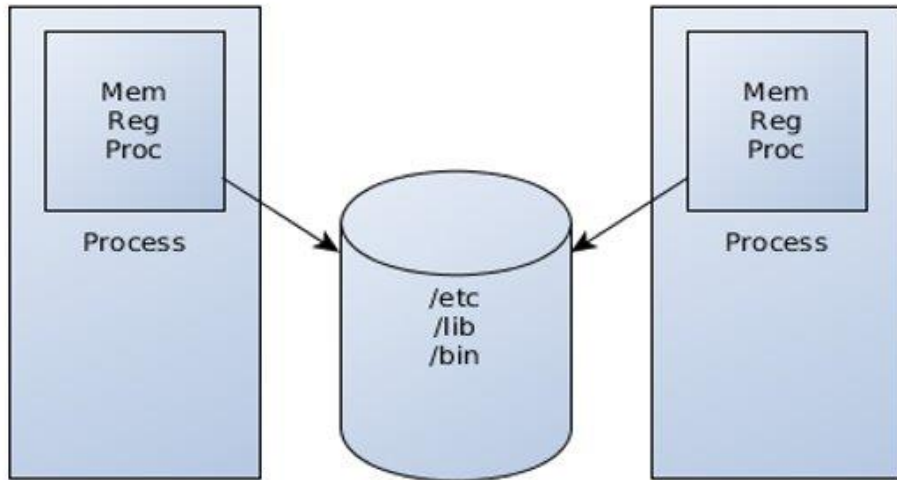
Docker

DOCKER ARCHITECTURE

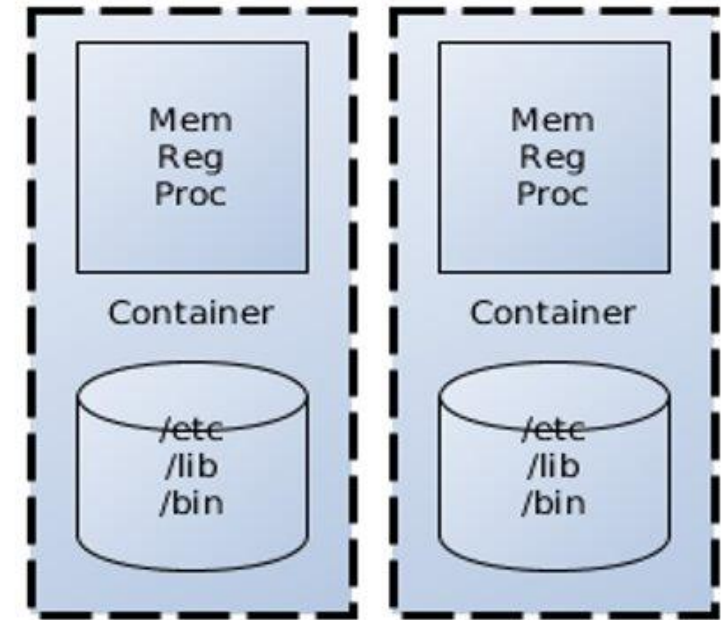
Docker Architecture



Process vs Container



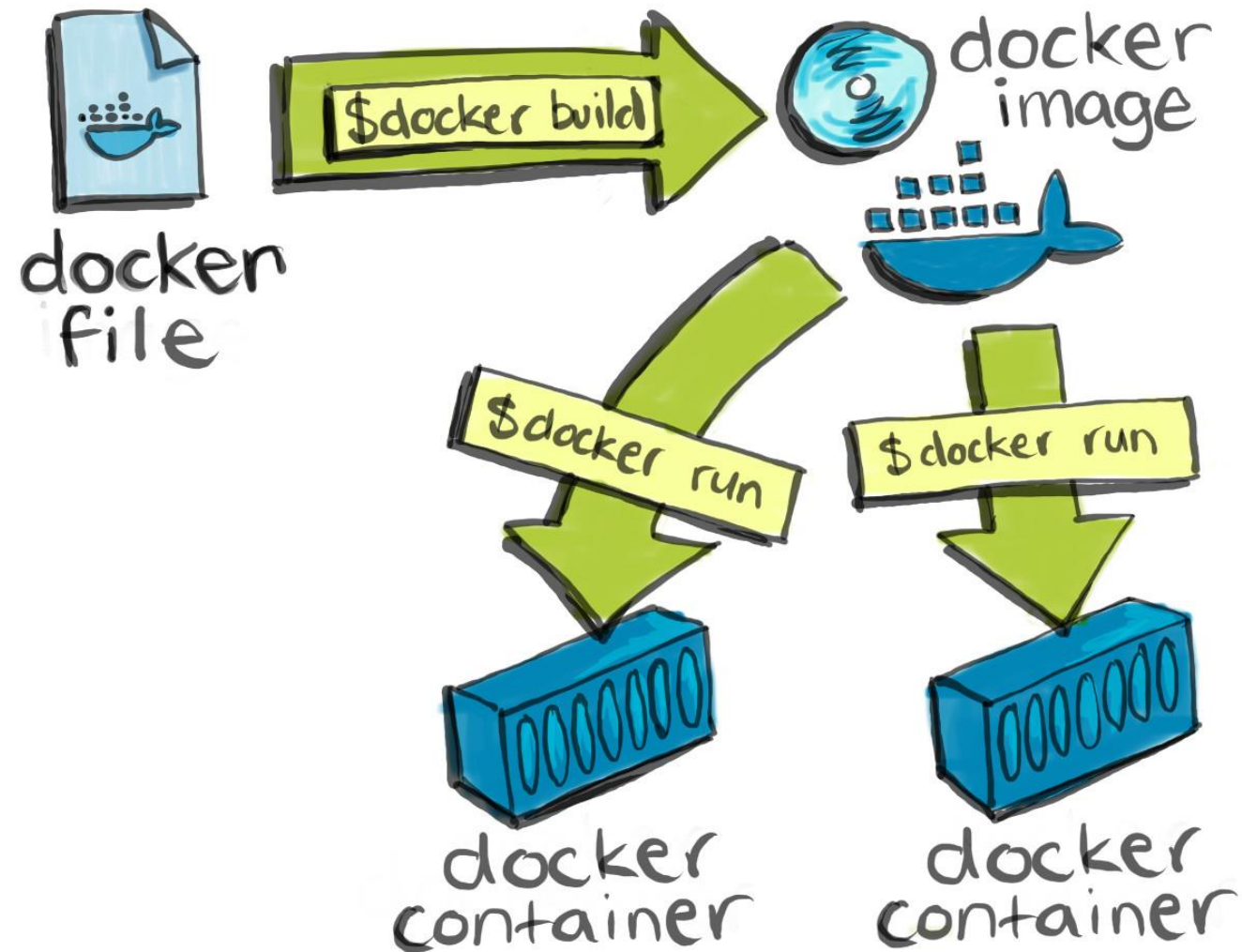
Processes



Containers

- Linux Kernel Features
 - Namespaces
 - Control Groups (CGroups) & chroot

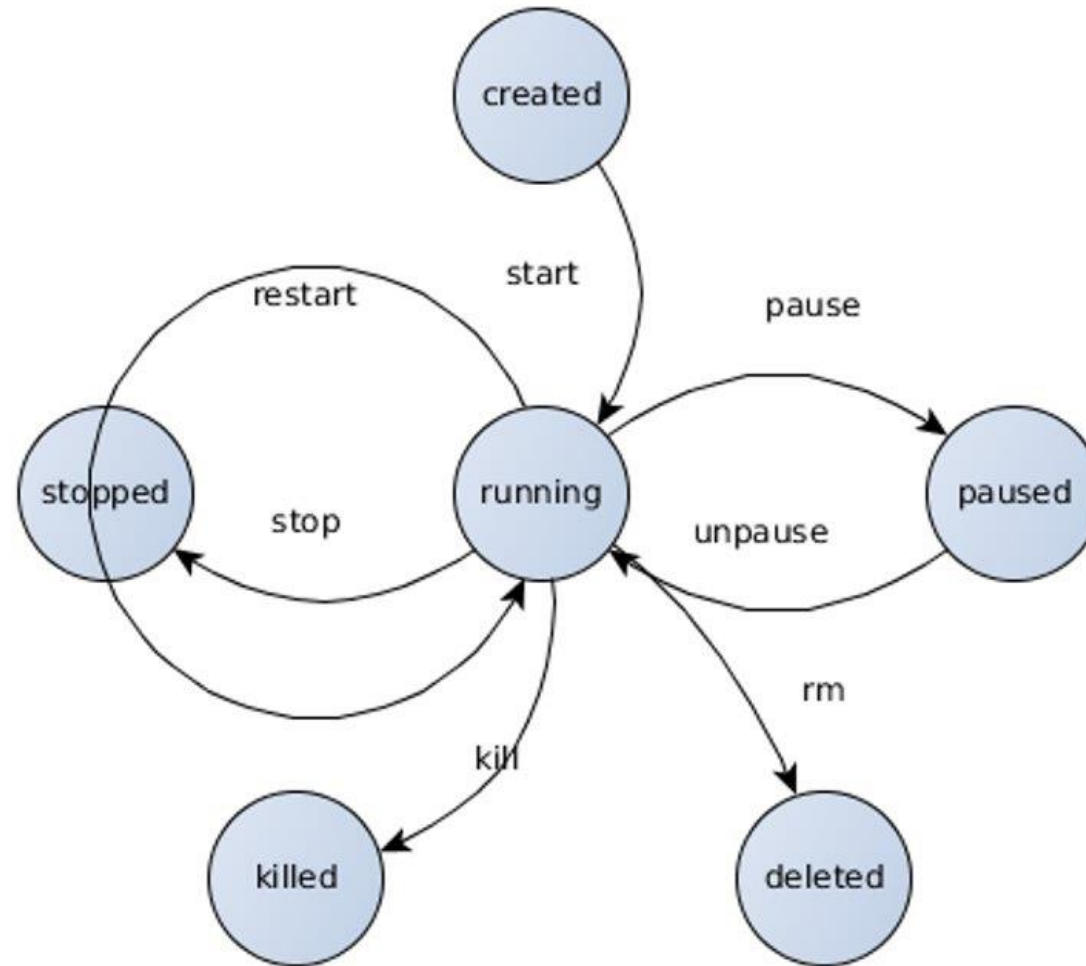
DOCKER BASICS



- › Image
 - › Blueprint of the docker container. No state.
- › Container
 - › Running instance based on image
- › Engine
 - › The process which executes/commands for containers
- › Registry
 - › Where docker images are stored/managed

- › build
 - › Build an image from a Dockerfile
- › run
 - › Create a container and run a command
- › ps
 - › List containers
- › logs
 - › Fetch logs from a container
- › Commit
 - › Create a new image from a container's changes

Container Lifecycle



DEMO

<https://github.com/kdkanishka/DockerTechTalk>

Demo



Q&A

Thank you



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