



DockerCon 2016 Recap

Docker Ottawa Meetup

Dave Henderson

dockercon 16



WASHINGTON STATE CONVENTION CENTER

7th Ave

PIKE
PINE

WASHINGTON STATE CONVENTION CE

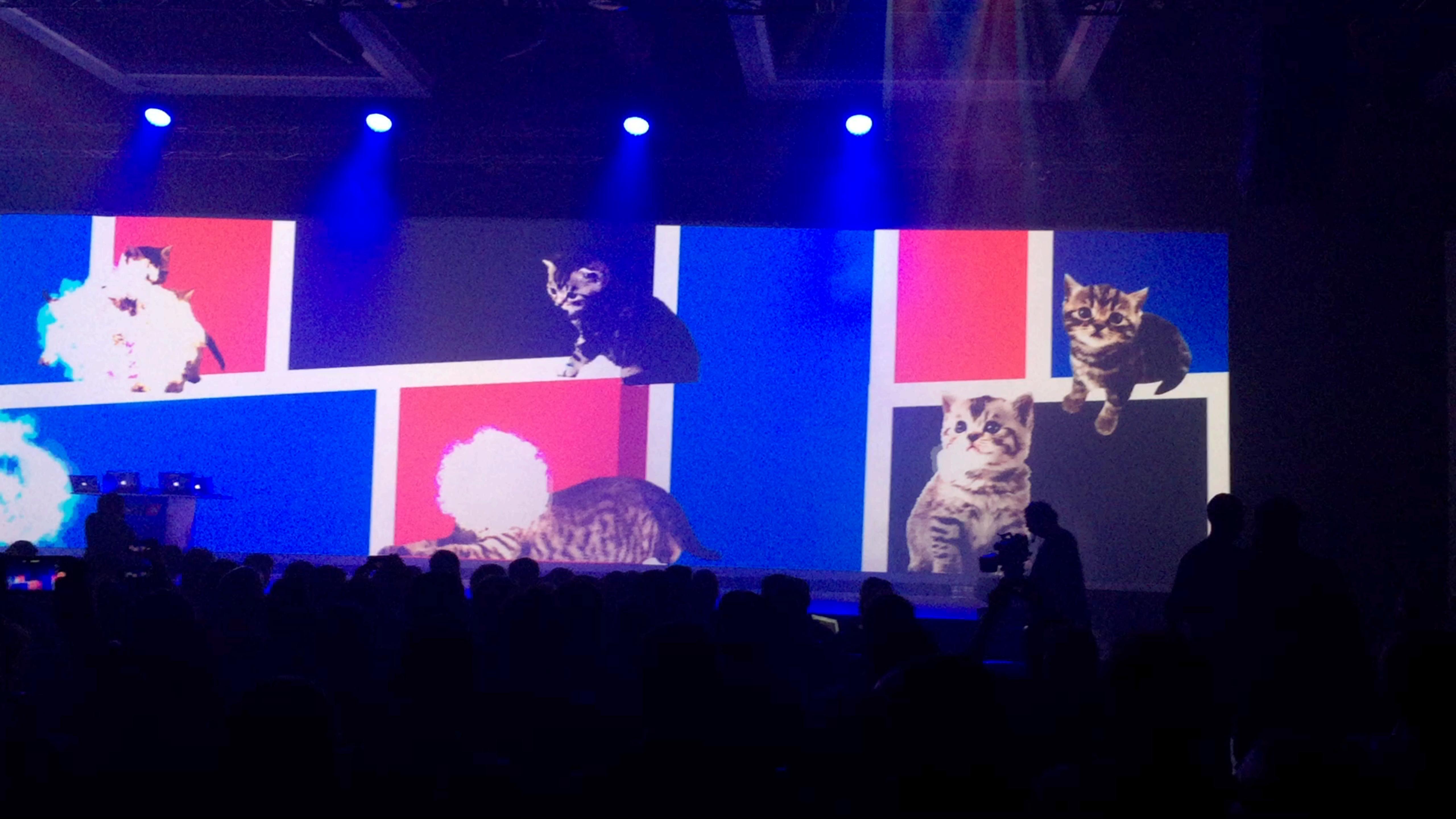
BUSES
ONLY

RIGHT TURN
PERMITTED



A man in a purple shirt and khaki shorts walks across the street in front of the convention center.

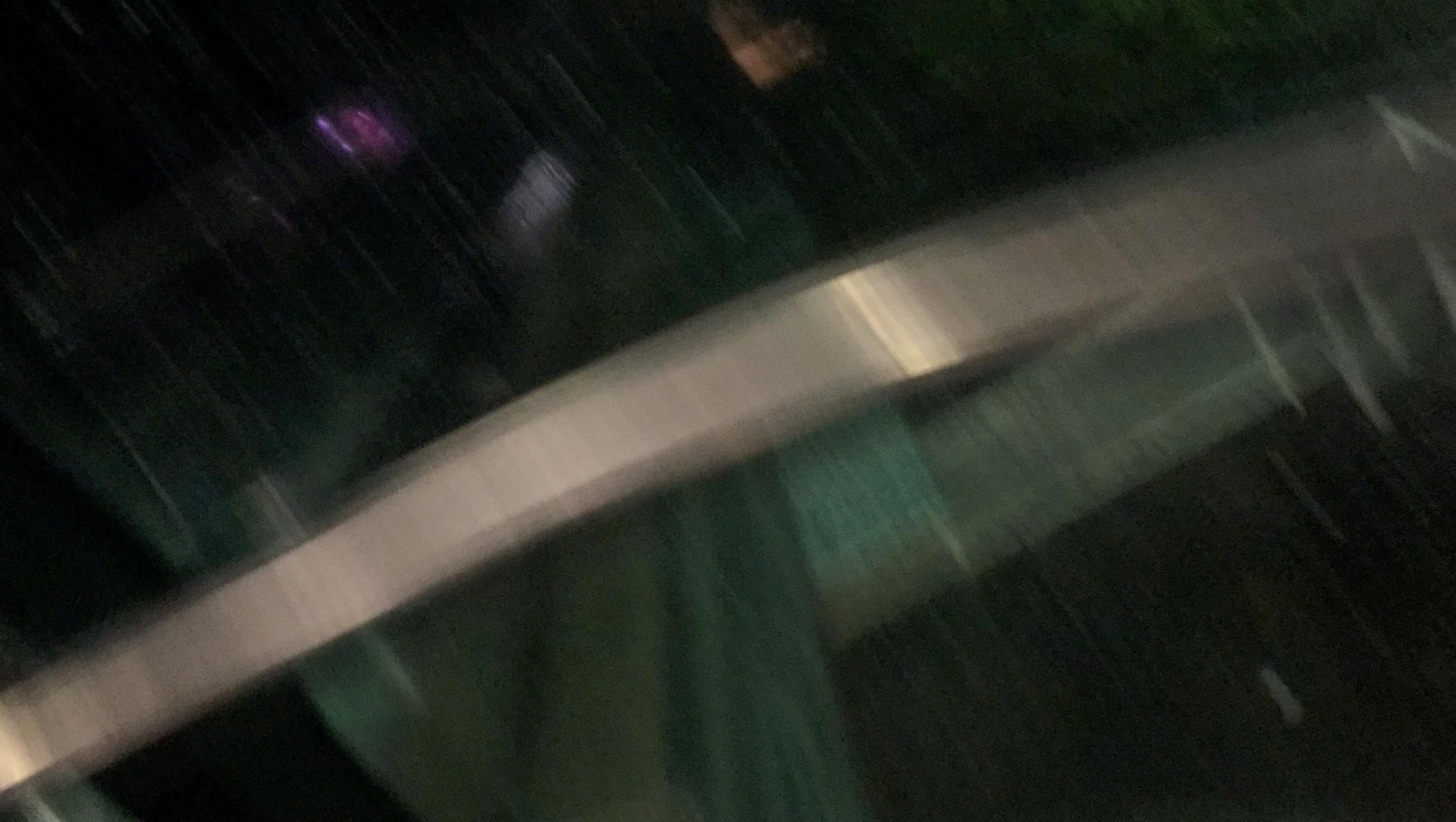








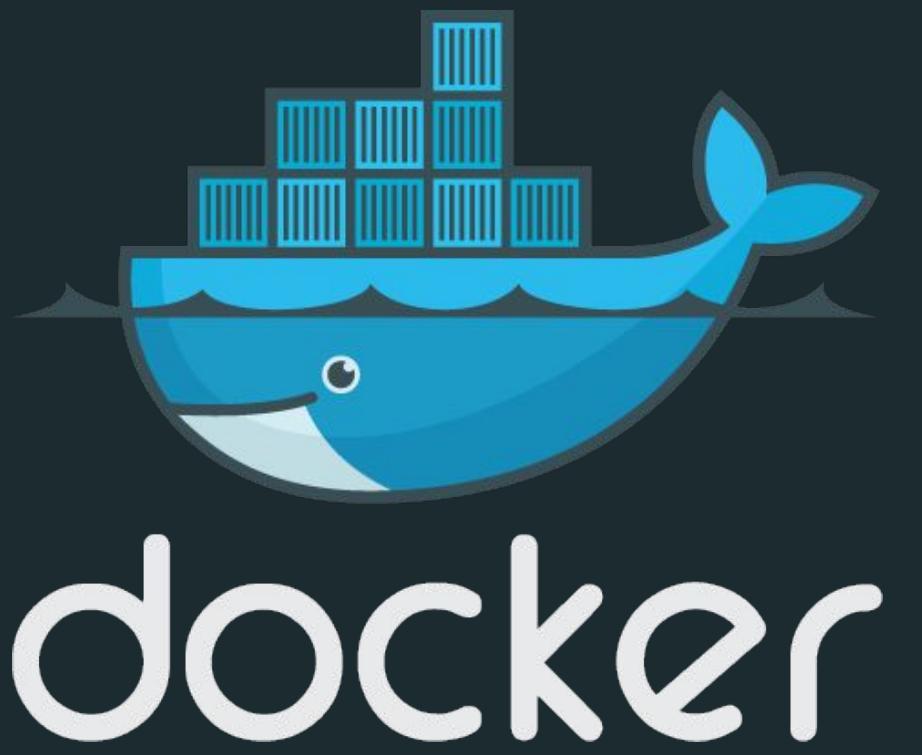




What's New in Docker 1.12

(Spoiler alert: a lot!)

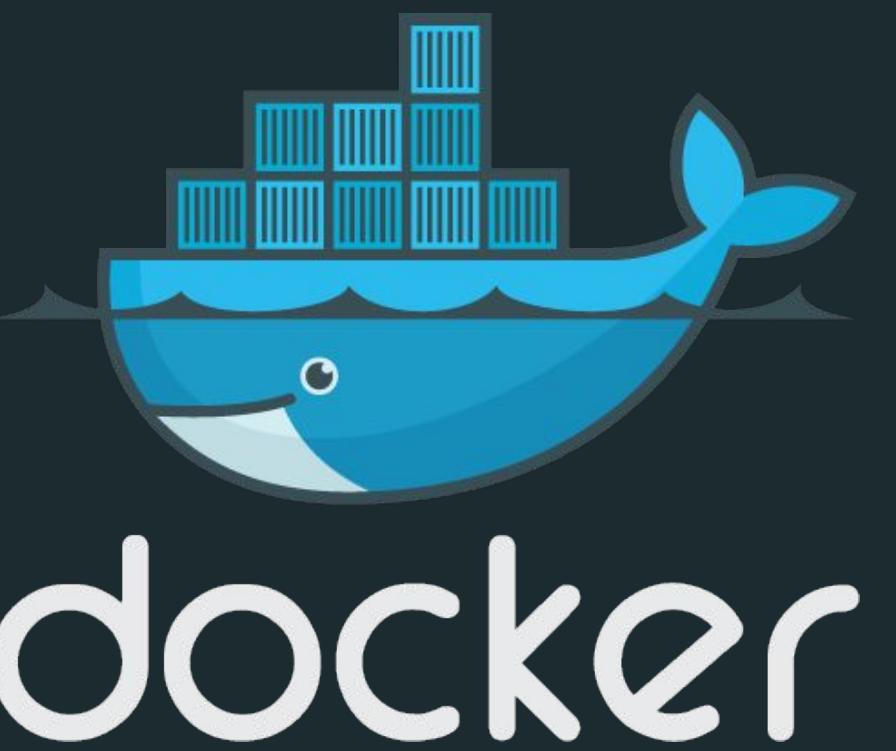
Mike Goelzer



Orchestration Deep Dive

DockerCon 2016

Andrea Luzzardi





Cloning Running Servers

Ross Boucher

@boucher



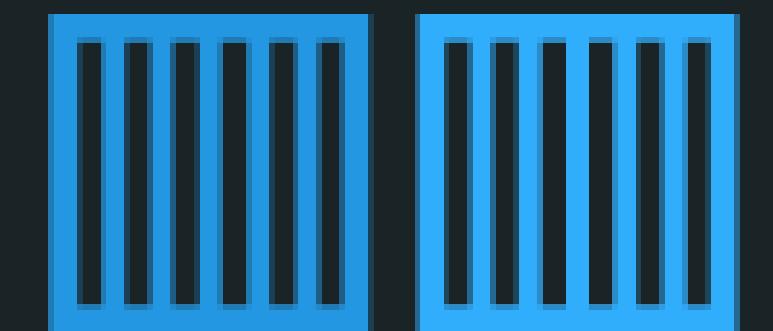
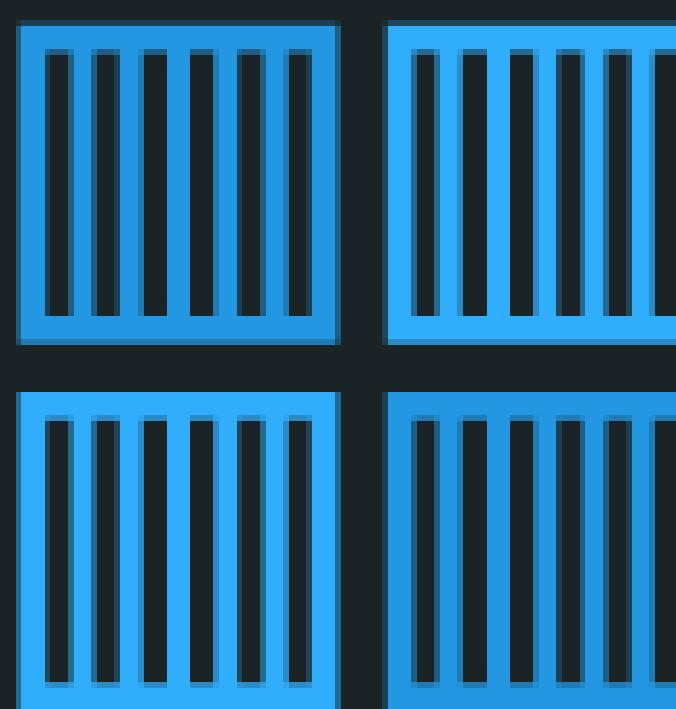
June 19-21, Seattle

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Docker for Mac and Windows: The Insider's Guide Justin Cormack

Engineer, Docker

@justincormack





Building a Container Supervisor

Michael

Crosby



Windows Server and Docker

The Internals Behind Bringing Docker and Containers to Windows

**John Starks &
Taylor Brown
Principal Leads in Windows**



Getting Deep on Orchestration

Jeff Nickoloff

Engineer, Author, and
Consultant

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runC: The little engine that could
(run Docker containers)

Phil Estes

IBM Cloud, Open Technology

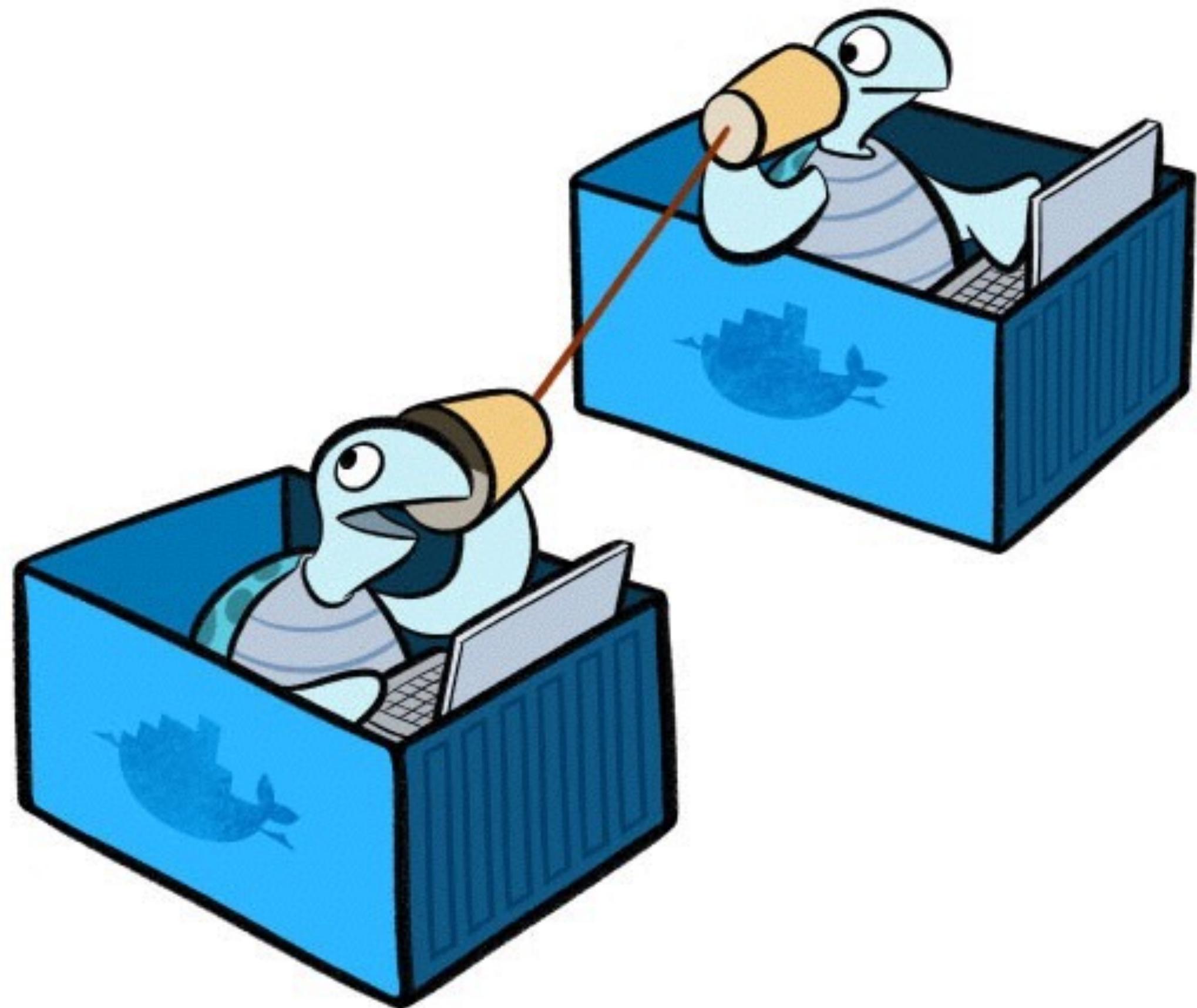


Storage-y things

Brian Goff

Core Engineer

@cpuguy83



Docker for Ops: Docker Networking Deep Dive

Madhu Venugopal

Jana Radhakrishnan



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Announcements...

- Docker for Mac/Windows now in public beta
- Built-in orchestration
- Secure swarm by default
- Health Check built in to images
- Stacks & DAB (Distributed Application Bundle)
- Docker for AWS/Azure (private beta)
- Docker Store (private beta)



Announcing the Docker Store

The marketplace for validated software and tools available in Docker format for businesses and publishers

- **Easy search and deploy**
- **Trusted and compliant**
- <https://store.docker.com>

The Docker Store is a marketplace for validated software and tools available in Docker format for businesses and publishers. It features a search bar at the top to find trusted and enterprise-ready containers. Below the search bar, there's a section for "Featured Software by Docker" which includes "Container Management for Enterprises with Docker Datacenter" and "Docker Trusted Registry". There are also sections for "Universal Control Plane", "Databases", "Storage", "Programming Languages", "Application Servers", "Messaging Services", and "Operating Systems". A "dockercon 16" banner is visible at the bottom right.

DOCKER STORE

Explore Log In

Search The Docker Store

Find Trusted and Enterprise Ready Containers

Featured Software by Docker

Container Management for Enterprises with Docker Datacenter

Docker Trusted Registry

Universal Control Plane

Docker Universal Control Plane provides an on-premises, or virtual private cloud (VPC) container management solution for Docker apps and infrastructure regardless of where your applications are running.

Everything you need for your app

Databases

All you need to build this, this and that for your awesome application.

Storage

All you need to build this, this and that for your awesome app.

Programming Languages

All you need to build this, this and that for your awesome app.

Application Servers

All you need to build this, this and that for your awesome app.

Messaging Services

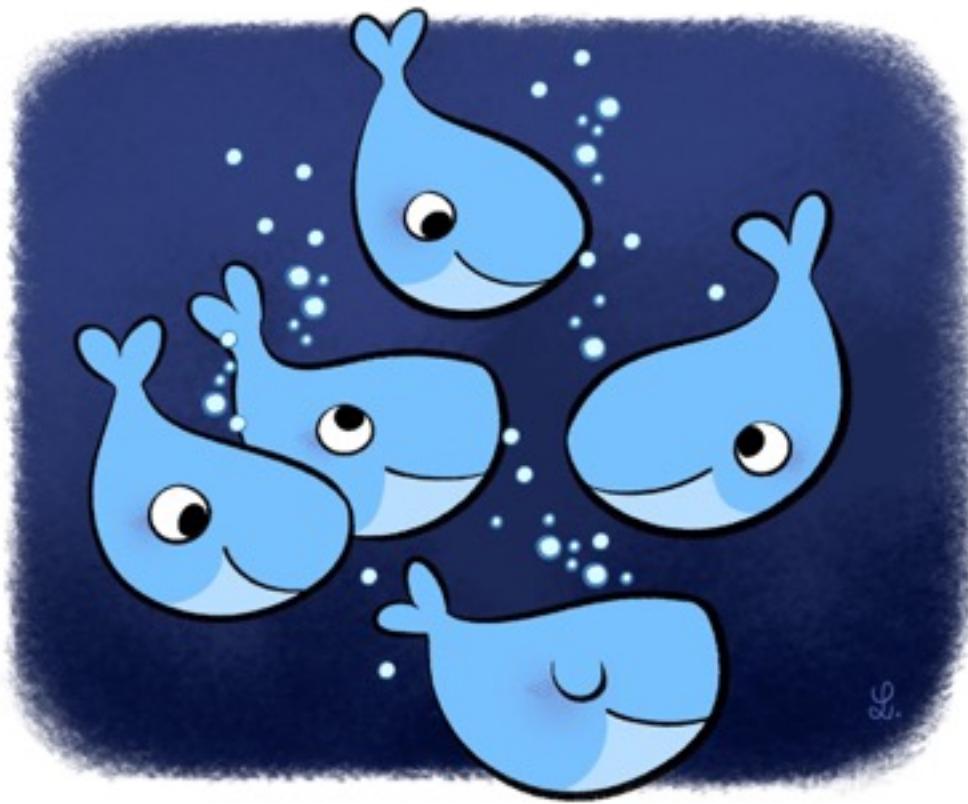
All you need to build this, this and that for your awesome app.

Operating Systems

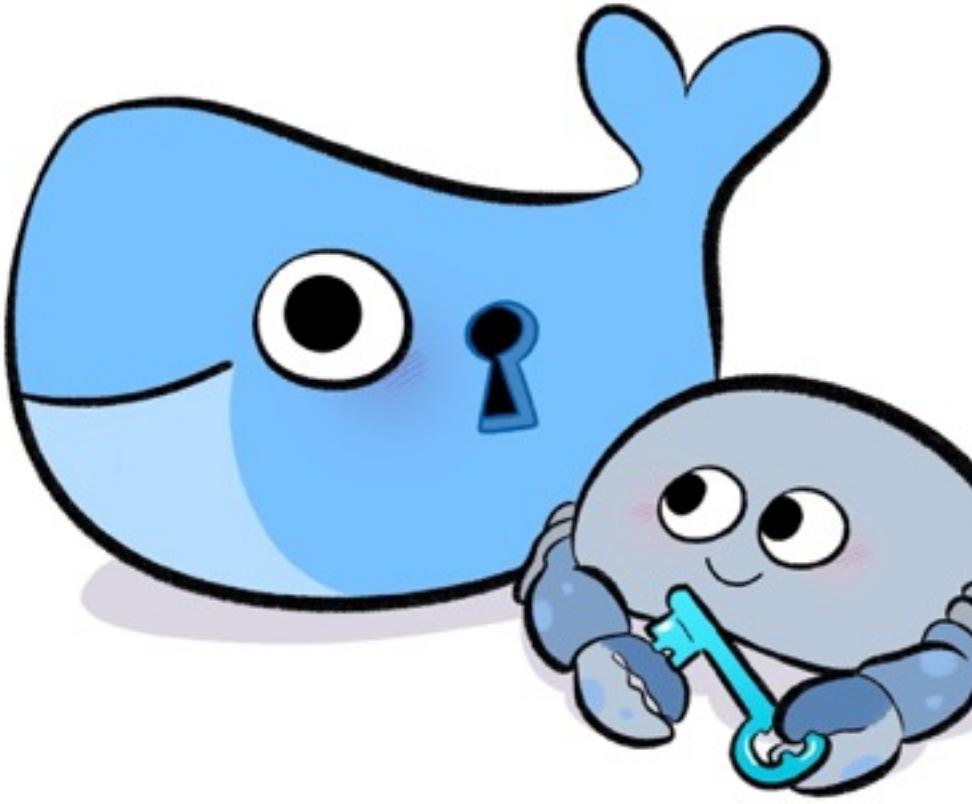
All you need to build this, this and that for your awesome app.

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Docker 1.12: now with orchestration built-in.



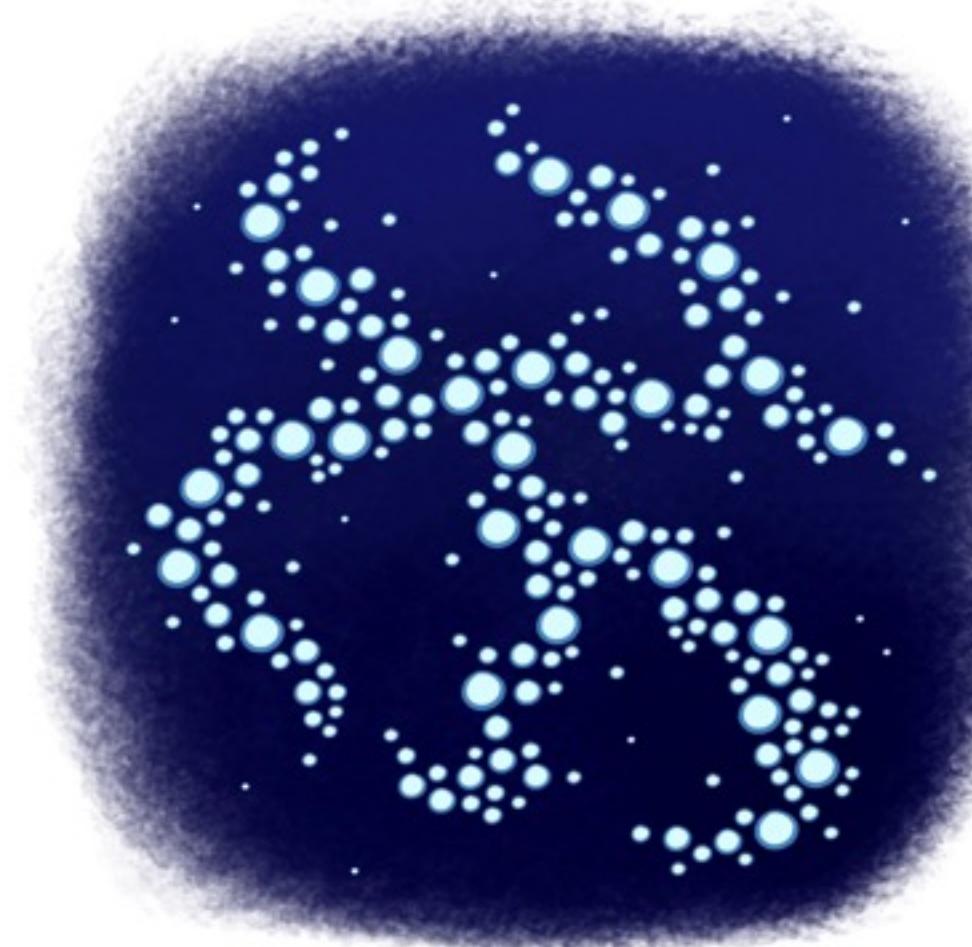
Swarm mode



Cryptographic node identity



Service API



Built-in routing mesh

Swarm mode

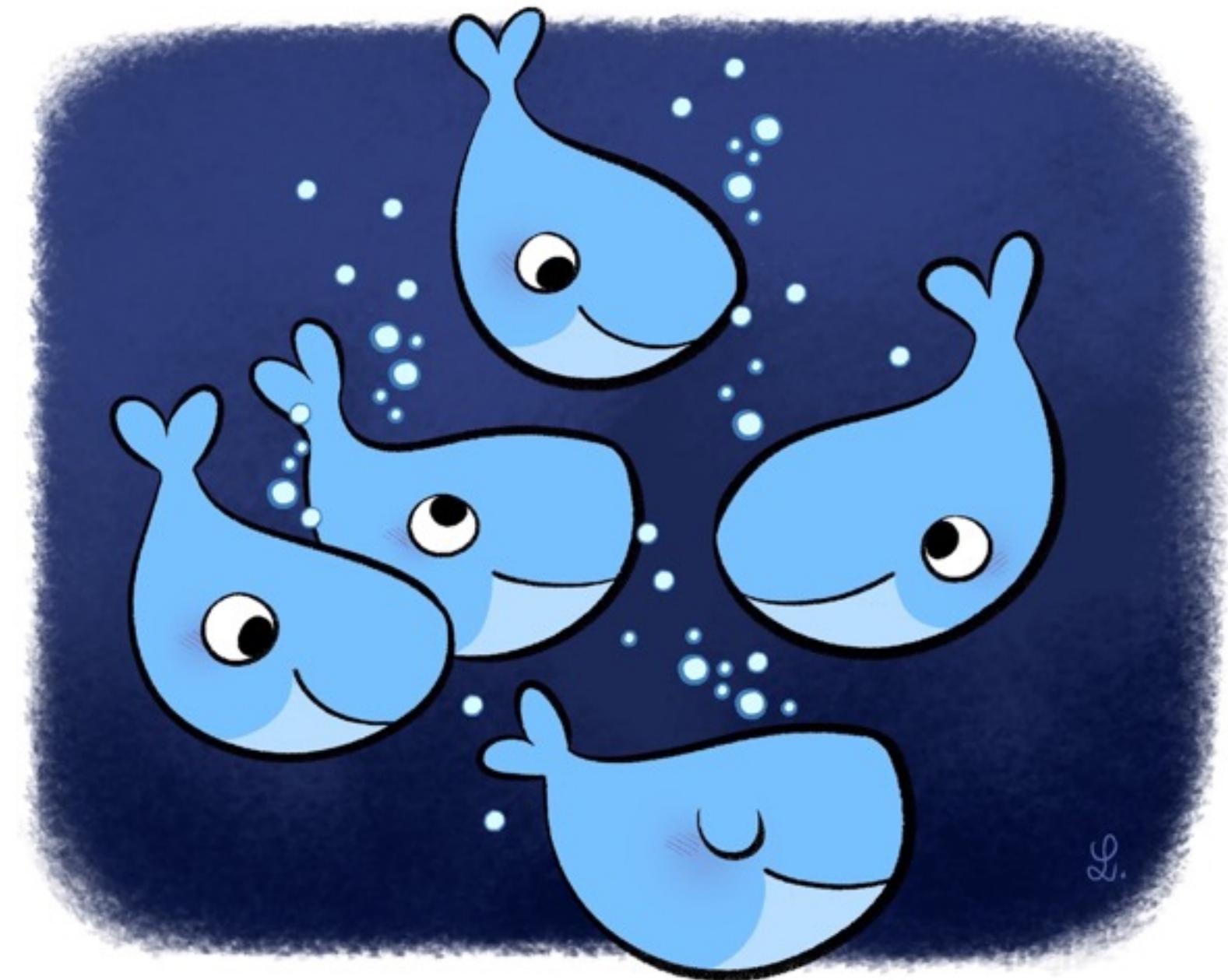
Combine your engines in swarms of any scale

Self-organizing, self-healing

No external data store required

No single points of failure

Infrastructure-agnostic topology



Cryptographic node identity

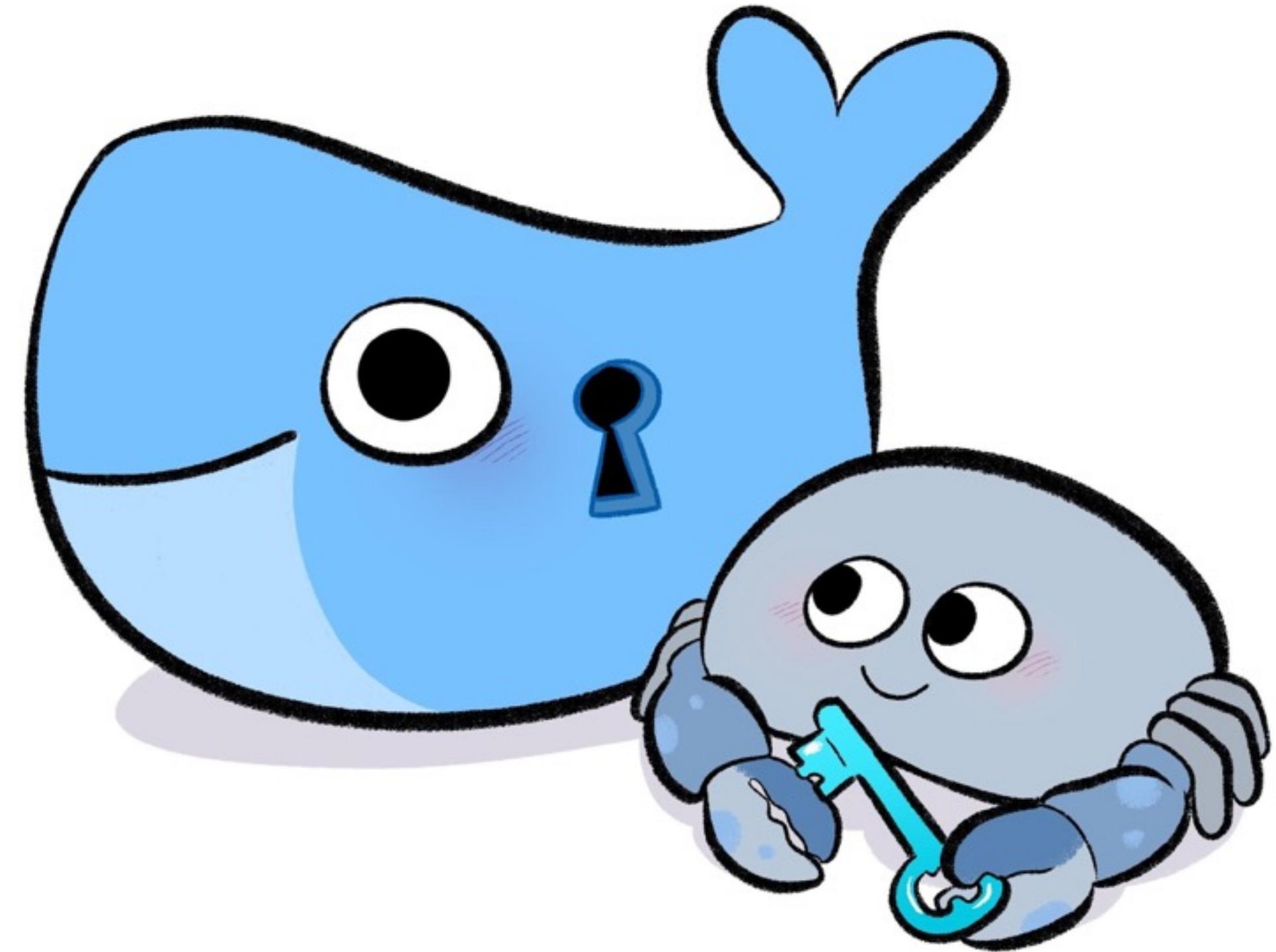
Government-grade security by default

End-to-end TLS

Built-in government-grade PKI

Automated key rotation

Revoke any node at any time



Docker Service API

Desired state reconciliation

Scaling

Rolling updates

Advanced scheduling

Application-specified health checks

Rescheduling on node failure



Built-in Routing Mesh

Swarm-wide overlay networking

Container-native load-balancing

DNS-based service discovery

No separate cluster to setup

Works with your existing load-balancers

Rock-solid kernel-only data path with IPVS



Docker 1.12: now with orchestration built-in.

Docker-native experience

No external dependencies

No single point of failure

Secure by default

Works with your infrastructure

Reverse compatible

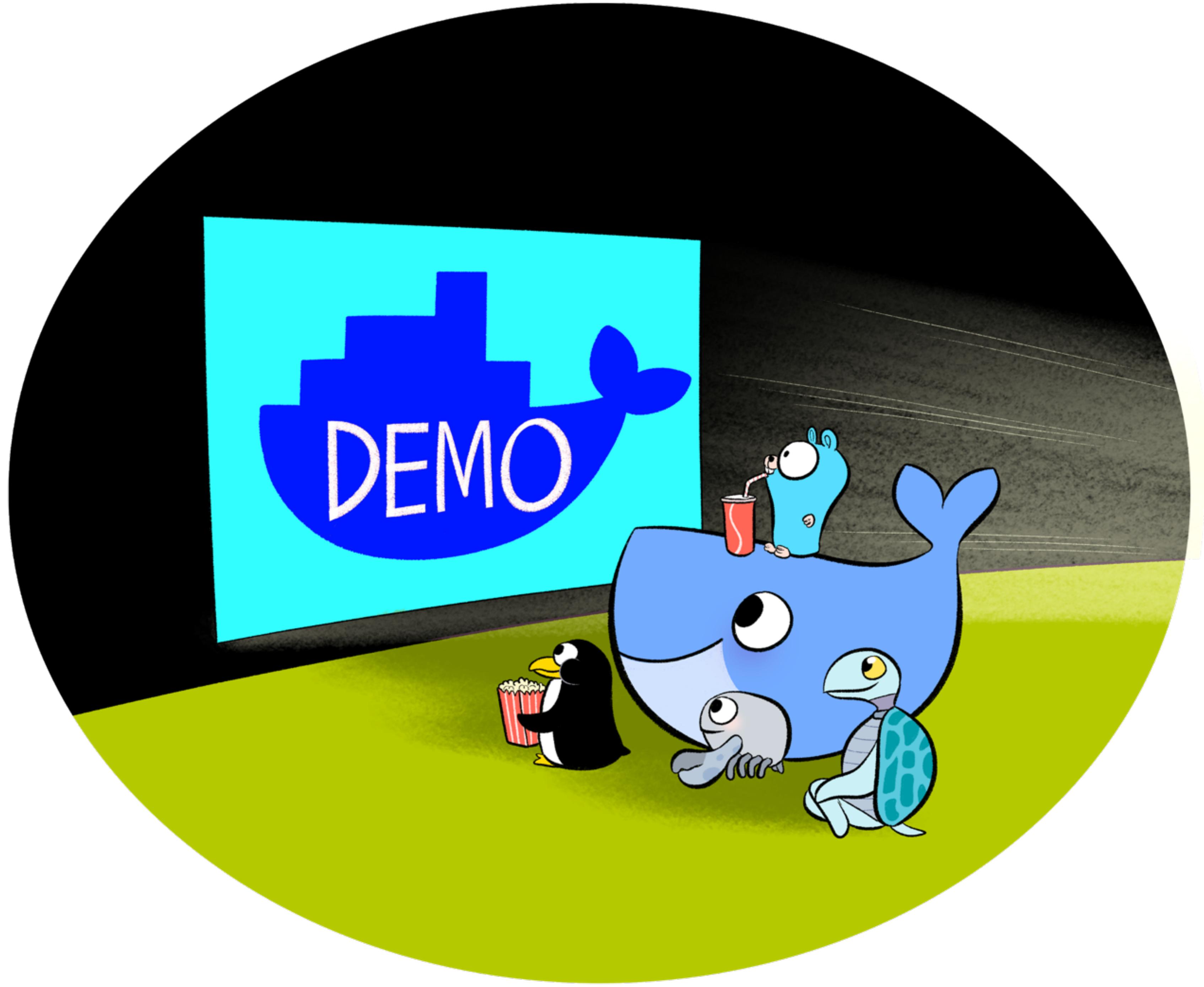


Using the beta? You already have 1.12 installed.



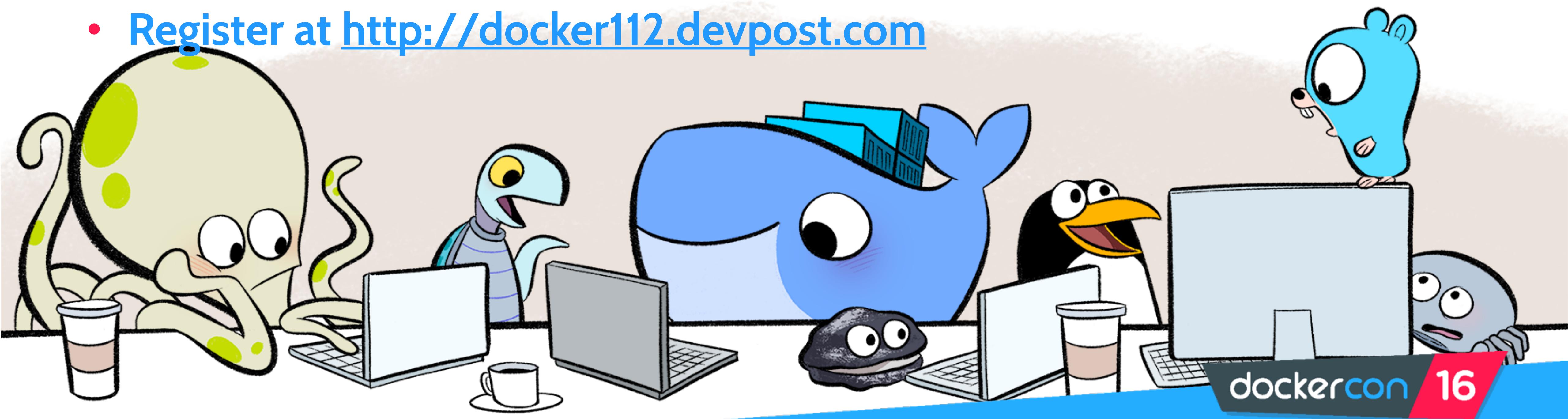
```
> docker swarm init  
> docker service create
```





Docker 1.12 Hackathon

- One-month Hackathon started on June 23, 2016
- Build, ship, and run applications with Docker 1.12
- Bonus points for contributions and bug fixes
- Register at <http://docker112.devpost.com>



Thank you!

