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# The State of the Container Ecosystem

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# The State of the Virtual Machine Ecosystem

Virtual machines are to Cloud  
what Containers are to  
Platforms.

# Container Ecosystem **Metrics**

Some % of organizations want to use containers.

Some % of organizations are using containers.

Some % of organizations are waiting to use containers after some % of other organizations start using them first.

# The State of Container Images and Runtimes



Docker is the **defacto standard** container runtime and image format for Linux and Windows.

# Other Container Runtimes

**rkt**   cri-o   **systemd**   runc

mesos   containerizer   **zones**

hyper.sh   **lxc**   jails

# Open Container Initiative

Runtime Spec

Image Spec

<https://www.opencontainers.org>

# Application Requirements

**security**    metrics    **logging**

**API compatibility**    utilization

monitoring    **performance**

# Application Requirements

**data locality**    compliance

**usability**    localization    **cost**

customers    **revenue**

# The State of Application Management Solutions

Containers are the common  
unit of compute across  
Frameworks, CaaS, and PaaS

# Application Management Frameworks

Kubernetes (CNCF)

Mesos (Apache Foundation)

Nomad (HashiCorp)

SwarmKit (Docker)



# Container as a Services (CaaS)

Docker Cloud

Elastic Container Service (ECS)

Google Container Engine (GKE)

Triton (Joyent)

# Application Management Platforms (PaaS)

App Engine

Cloud Foundry

Heroku

OpenShift

# Application Frameworks (Libraries)

GoKit

gRPC

linkerd

Sprint Boot

Containers only solve a small part of the problem, while creating new ones. **Focus on the Application.**



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**Questions?**

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# OPENSIFT COMMONS GATHERING

Co-located with KubeCon  
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in Seattle, Washington

[commons.openshift.org/gathering](https://commons.openshift.org/gathering)

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#OCGathering2016