

Kubernetes Crossing the Chasm

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Ian Crosby
@IanDCrosby



info@container-solutions.com
container-solutions.com



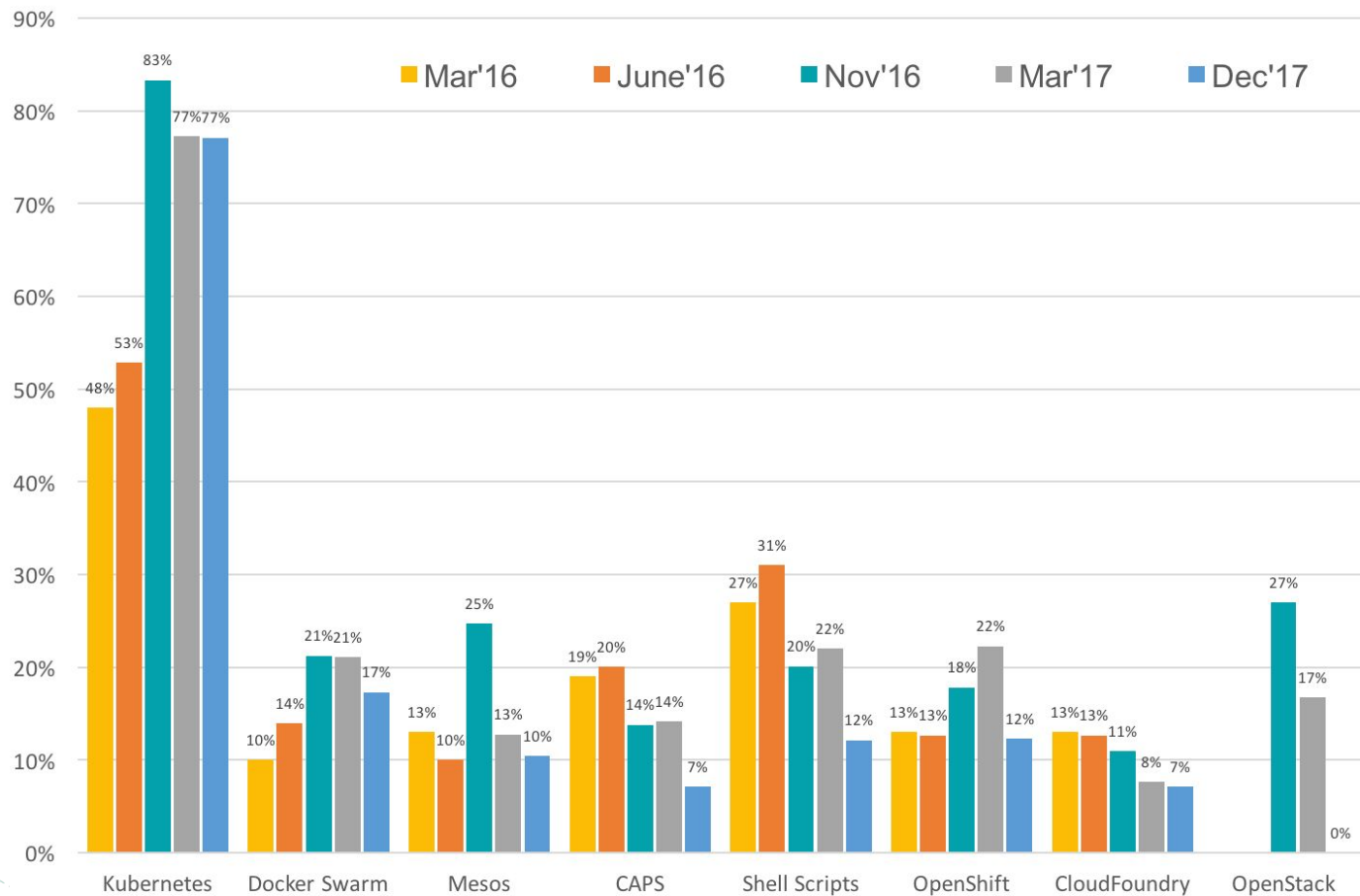




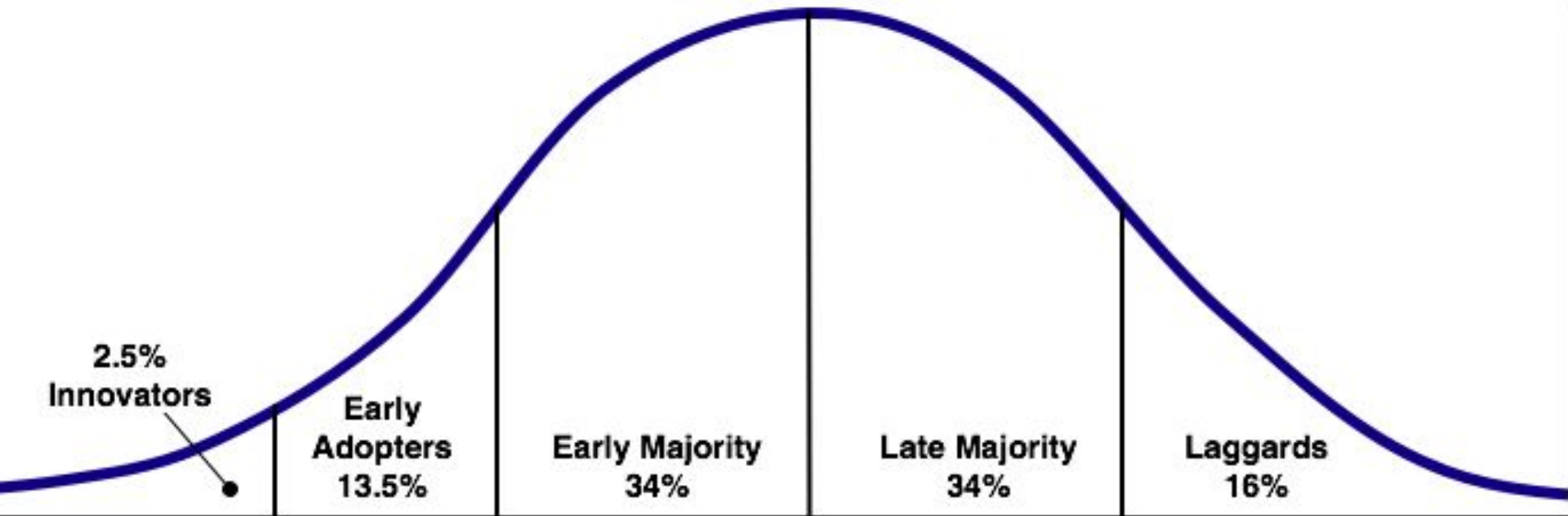
Kubernetes

- Container Management Platform
- Automate Deployment, Scaling, Management of Applications
- Across a cluster of hosts
- Built by originally by Google, maintained by CNCF

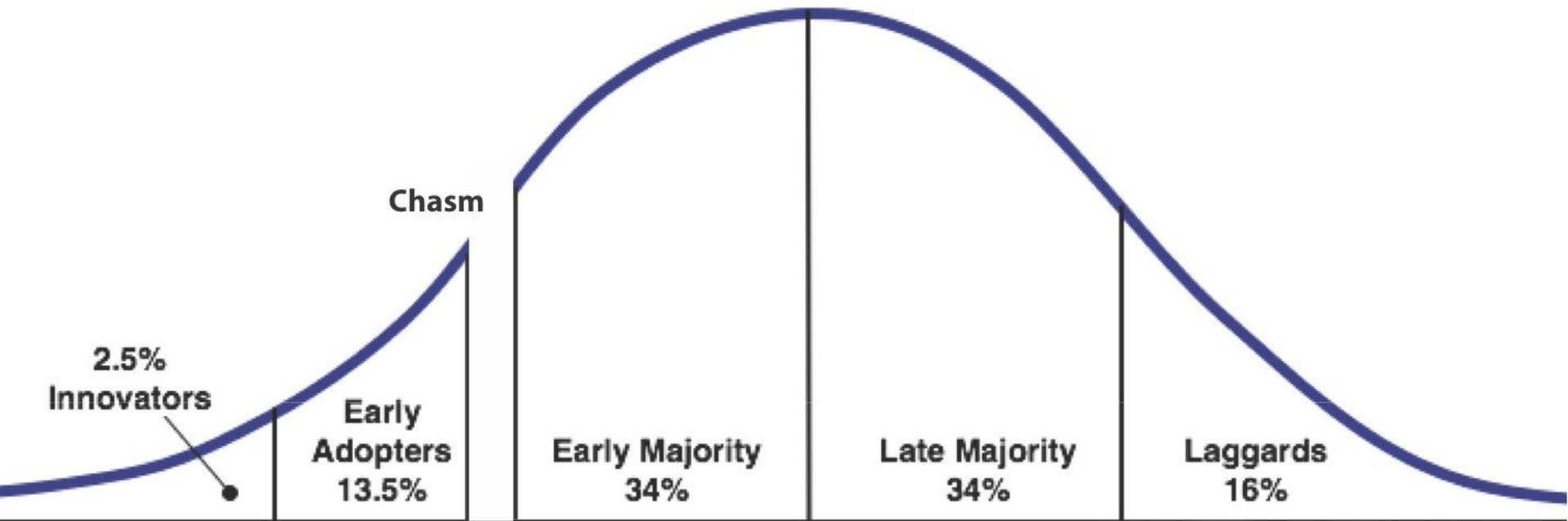




Technology Adoption Lifecycle



Technology Adoption Lifecycle





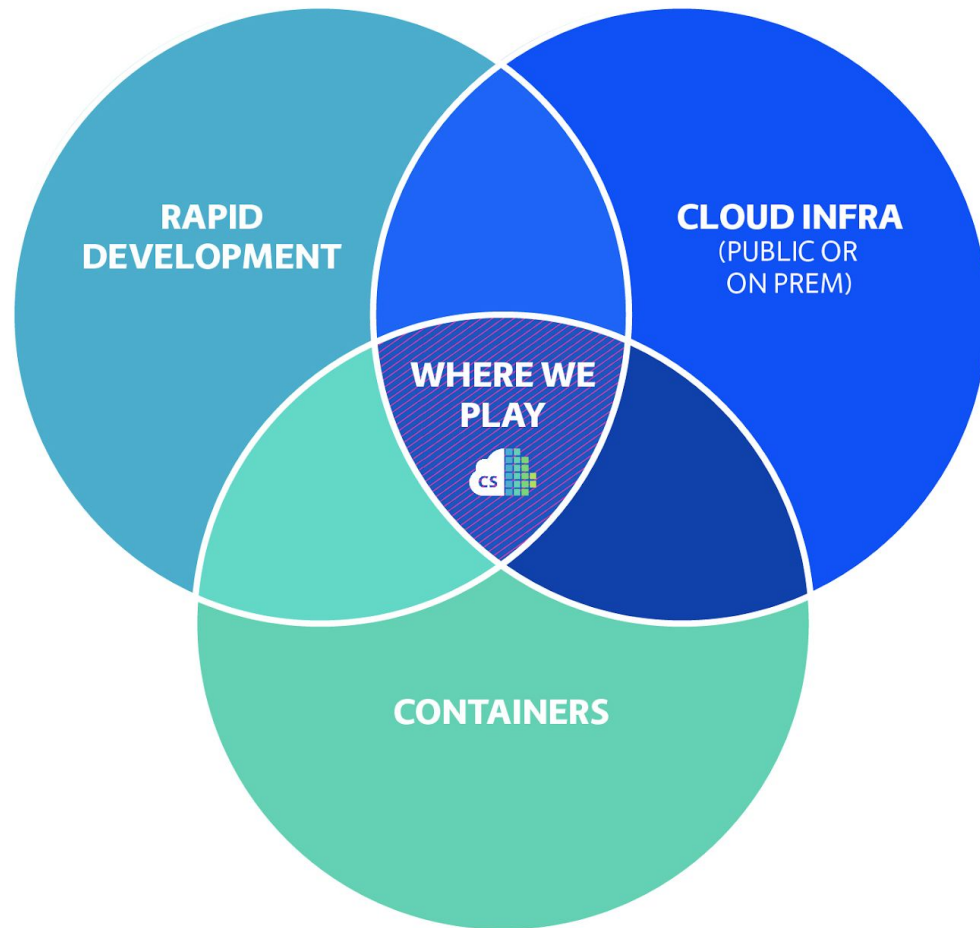
Will Kubernetes Cross the Chasm?



So What?



Cloud Native is the Future of Software



Real World Case Studies

- Organisations we've worked with in the past year.
- Do not fit the normal Cloud Native model.
- Come with interesting challenges.
- How they can be solved.

What is the Ideal Use Case?

THE DIGITAL WHOLESALING
PLATFORM WHERE YOU CAN
CONNECT, TRADE & GROW.

I AM A

BRAND

RETAILER



Ideal Cloud Native Use Case

- No Legacy
- 100% Cloud / SaaS
- Stateless applications
- Cloud Services (e.g. Databases)



- 15 Developers to 1 Ops
- Focus on adding Business Value
- Fault tolerance, Auto Scaling, Service Discovery Out of the Box

Student housing made easy

Book your perfect home in 400 cities worldwide



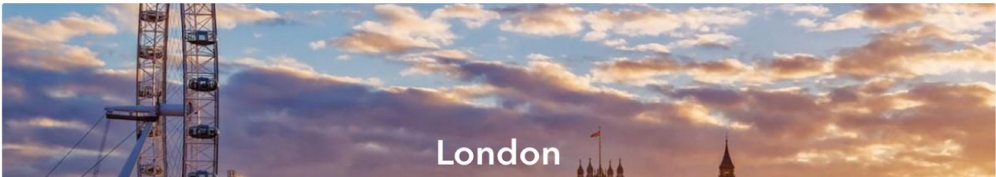
Search by college, city or neighborhood

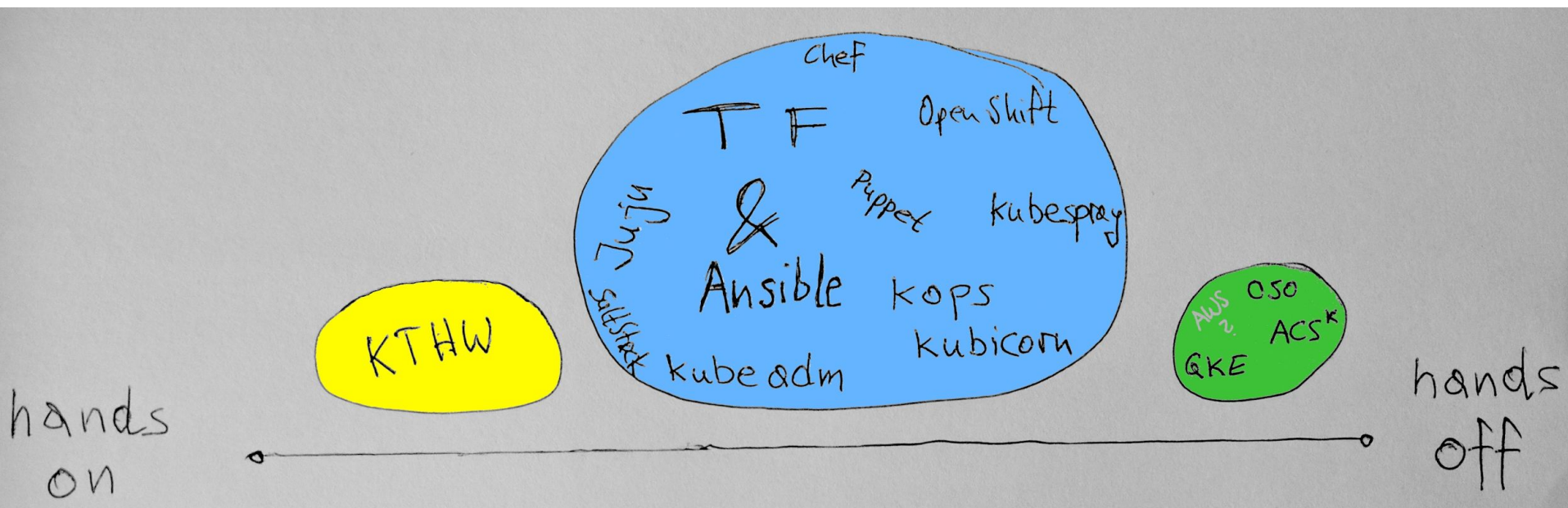


Move in → Move out

Search

Discover our top cities





Source: <https://blog.openshift.com/kubernetes-little-guide-install-options/>

The Great Chinese Firewall



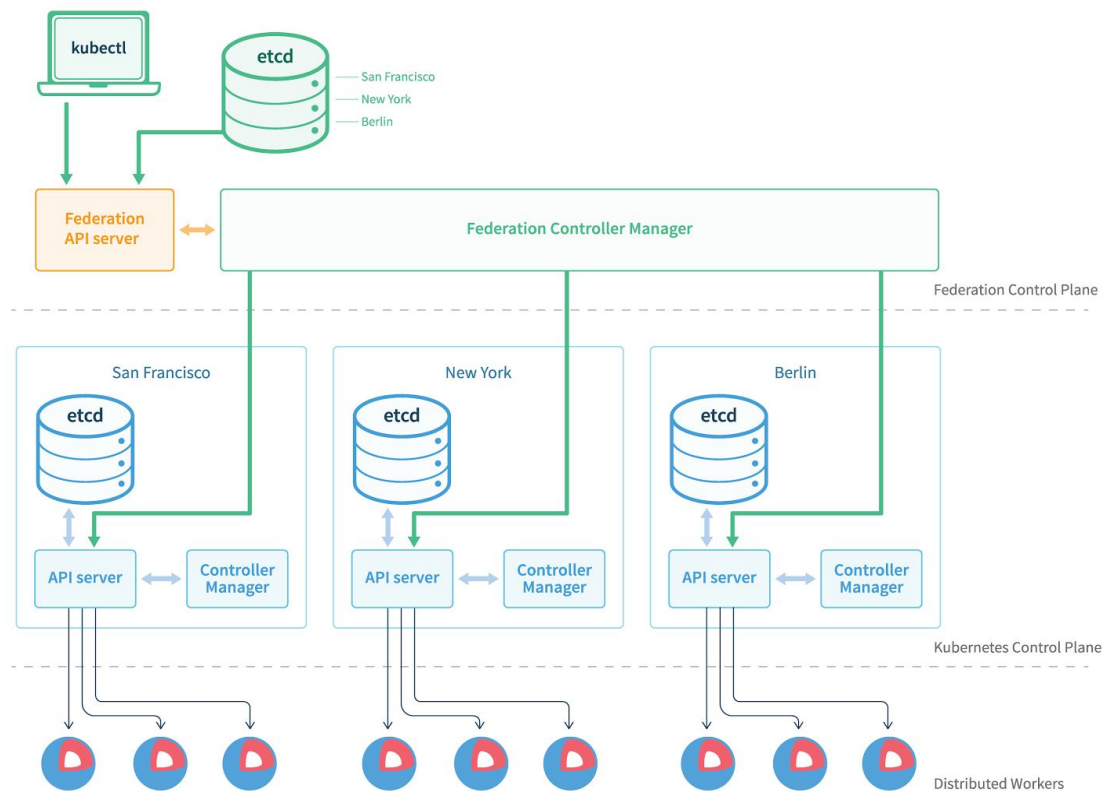
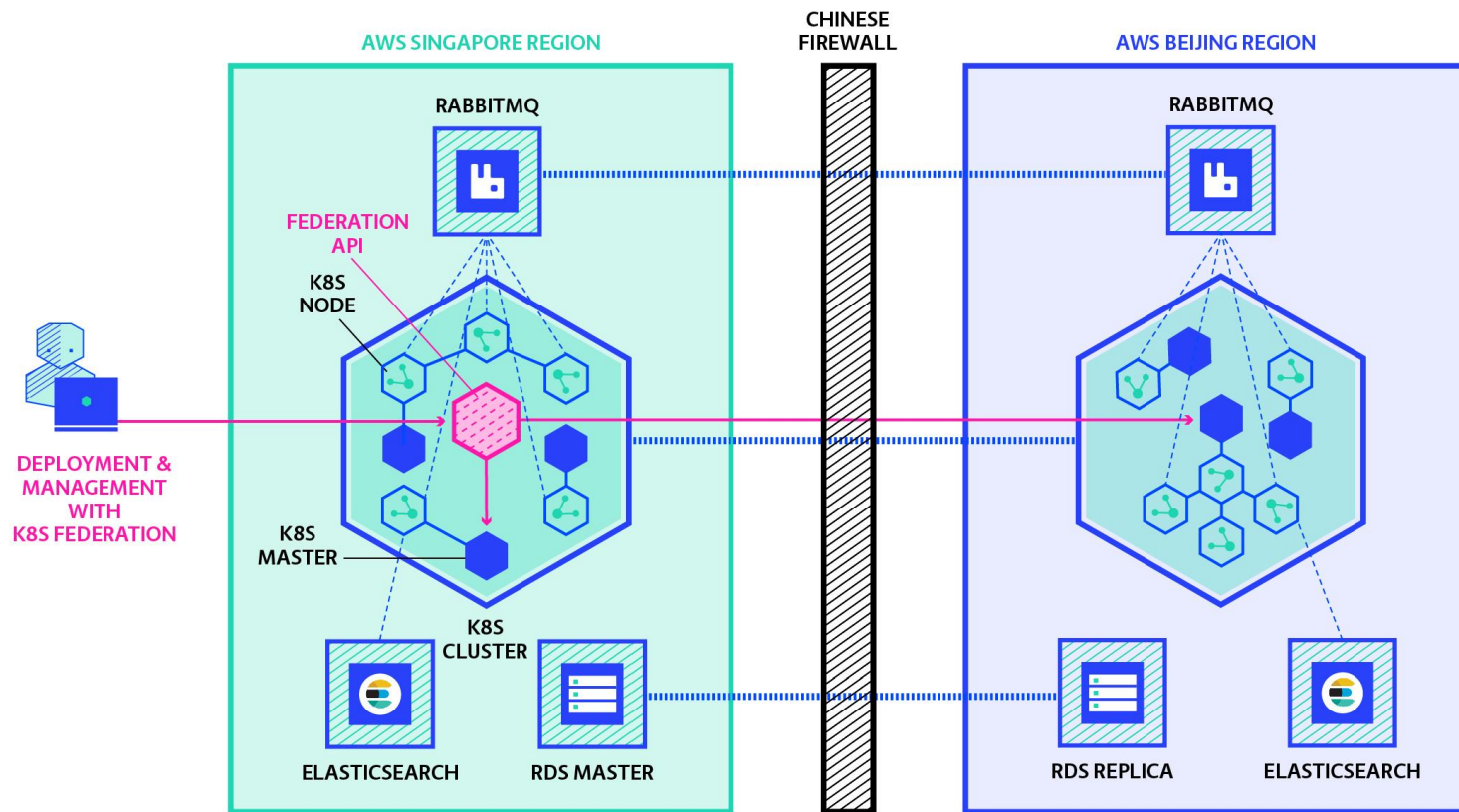


Image courtesy of CoreOS



To Cross the Chasm

“Whole Product”

- Mature Tooling
- Advanced Features
- Active Community







From Traditional Enterprise to Cloud Native.





[DOCS](#)



The package manager for Kubernetes

Helm is the best way to find, share, and use software built for Kubernetes.





- Vastly improve the upgrade process
 - No more supporting versions for 10 years
 - No Ericsson engineers needed
- The 'new' model for enterprise software
- Kubernetes as O/S



```
<?xml version="1.0" encoding="UTF-8"?>
<raf angle="unit= degree">

  <System>

    <system camera_switch_mode="off" layer_switch_distance="0"/>

  <!-- Camera / Lights -->

    <camera id="cameral" type="perspective" vfov="53" znear="0.1" zfar="10000" position="15.5 9.5 47" direction="0 0 2" up="0 1 0"/>
    <light id="light1" type="point" color="1 1 1" position="27.6 34.3 56.3" attenuation="1.7 0 0"/>
    <light id="light2" type="ambient" color="1 1 1"/>
    <light id="light3" type="edge" color="1 1 1" exponent="3"/>

  </System>
```

ACCESS DENIED

```
<model id="bg" file="bg.bg">
  <material id="bt_1" effect="pure_texture alpha_1 depth_0">
    <texture file="14.dds"/>
  </material>
  <material id="bt_15" effect="pure_texture alpha_1 depth_0">
    <texture file="15.dds"/>
  </material>
  <material id="bt_16" effect="pure_texture alpha_1 depth_0">
    <texture file="16.dds"/>
  </material>
</model>
```

```
<!-- Actors -->

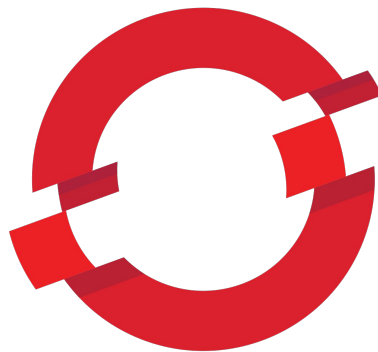
  <actor id="actor1" model="bg" material="bt_1" scale="0 0 0"/>
  <actor id="actor5" model="bg" material="bt_5" scale="0 0 0"/>
  <actor id="actor6" model="bg" material="bt_6" scale="0 0 0"/>
  <actor id="actor7" model="bg" material="bt_7" scale="0 0 0"/>
```



What the heck is a pause container?



Giant Swarm



OPENSIFT



APPRENDA

More Challenges

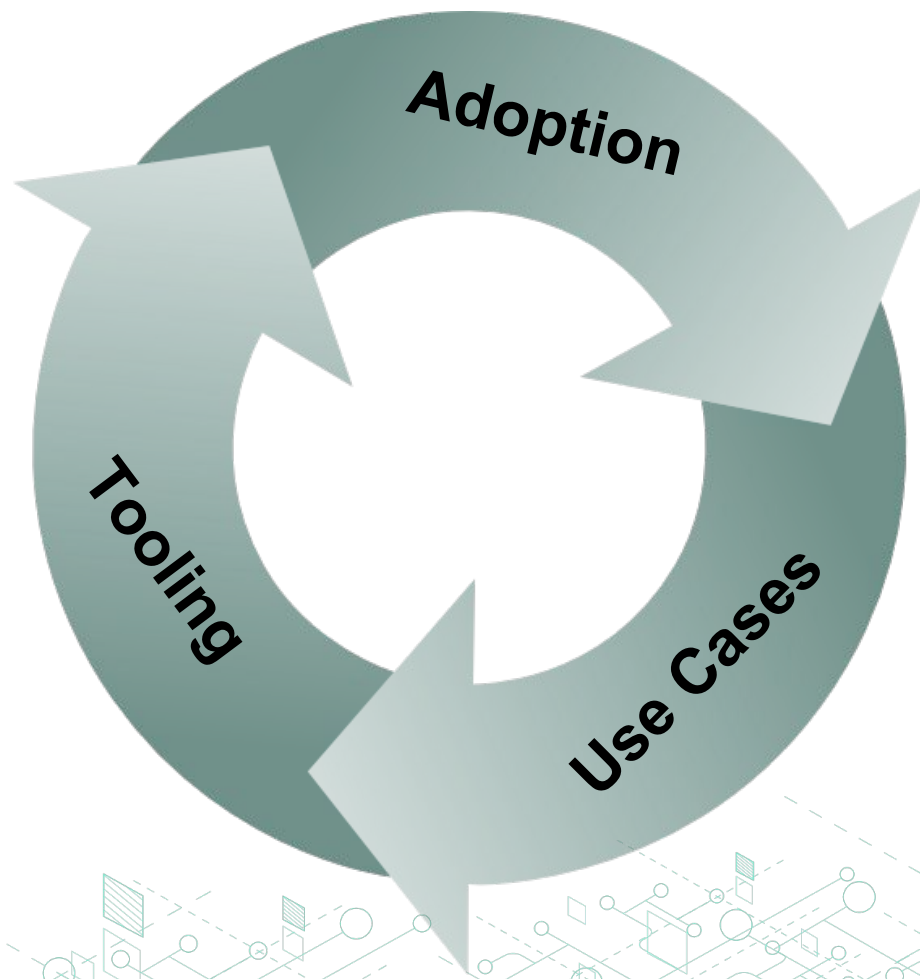
- Support for Windows
- Integration with Legacy/Vendor Software
- Hybrid Cloud
- ???

To Cross the Chasm

“Whole Product”

- Mature Tooling
- Advanced Features
- **Active Community**





Will Kubernetes Cross the Chasm?



When Will Kubernetes Cross the Chasm?



Thanks.

Kubernetes Crossing the Chasm

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