Kubernetes Crossing the Chasm

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Kubernetes

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





...25 percent of surveyed companies were using containers at some stage of deployment

[source: https://www.cloudfoundry.org/wp-content/uploads/2012/02/Container-Report-2017-1.pdf]

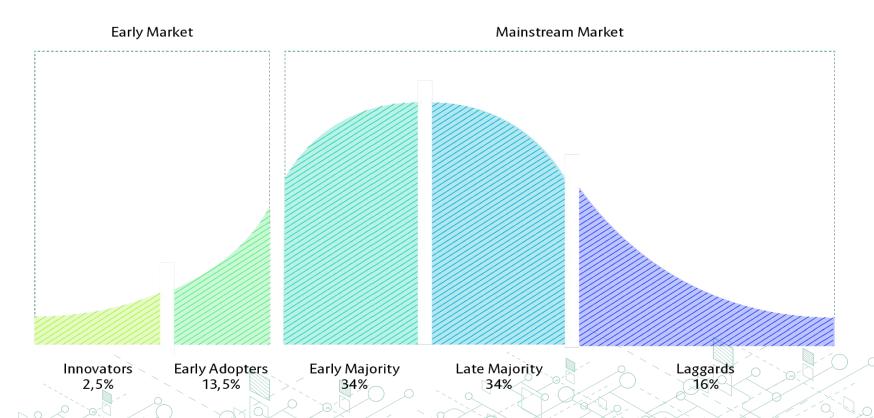
50% of all companies using containers have some form of **orchestration**

[source:https://www.datadoghq.com/docker-adoption/]

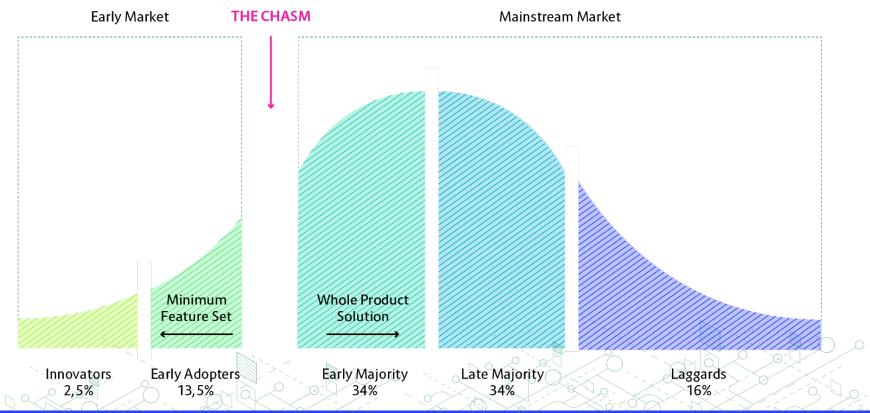


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Diffusion of Innovation



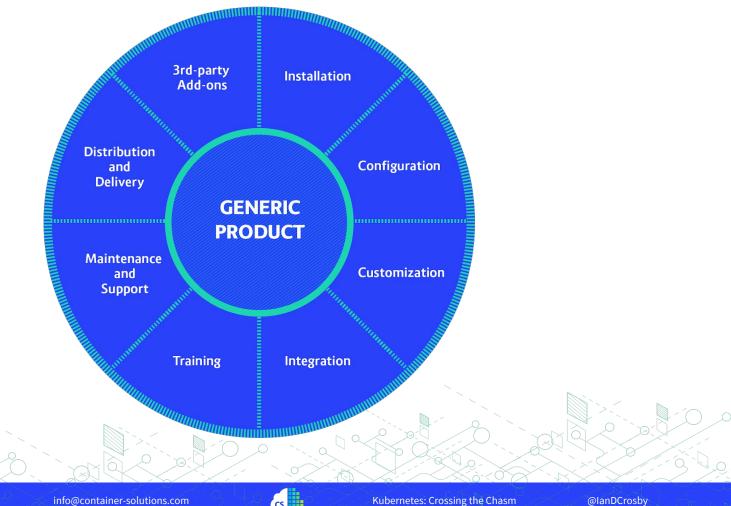
Diffusion of Innovation





Will Kubernetes Cross the Chasm?



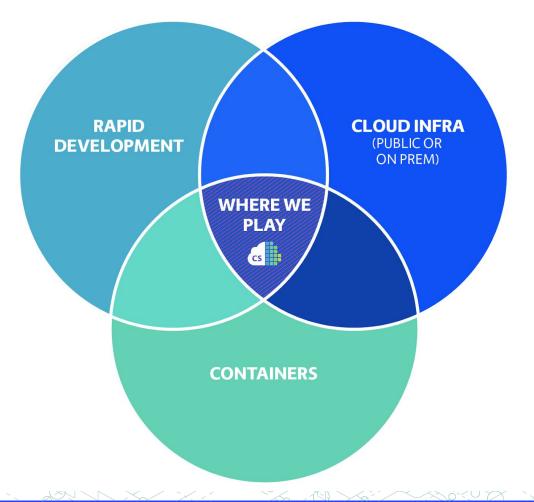


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So What?







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.

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What is the Ideal Use Case?





Ideal Cloud Native Use Case

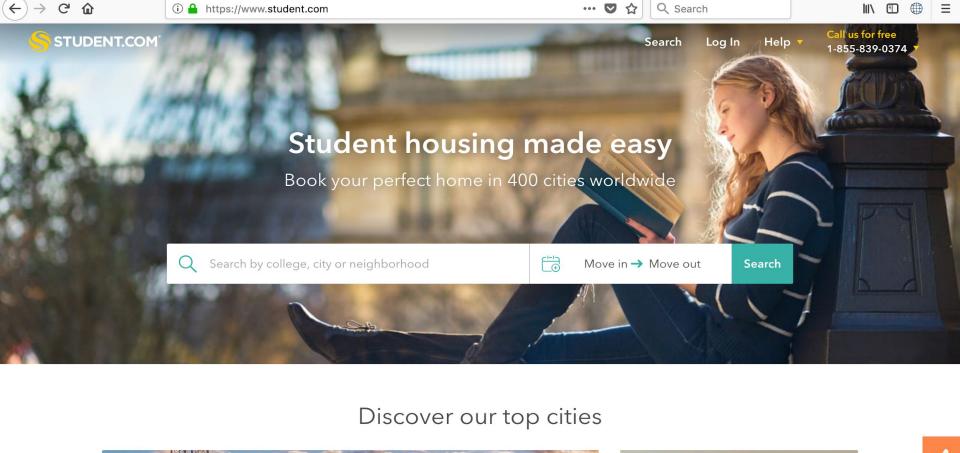
- No Legacy
- 100% Cloud / SaaS
- Stateless applications
- Cloud Services (e.g. Databases)





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



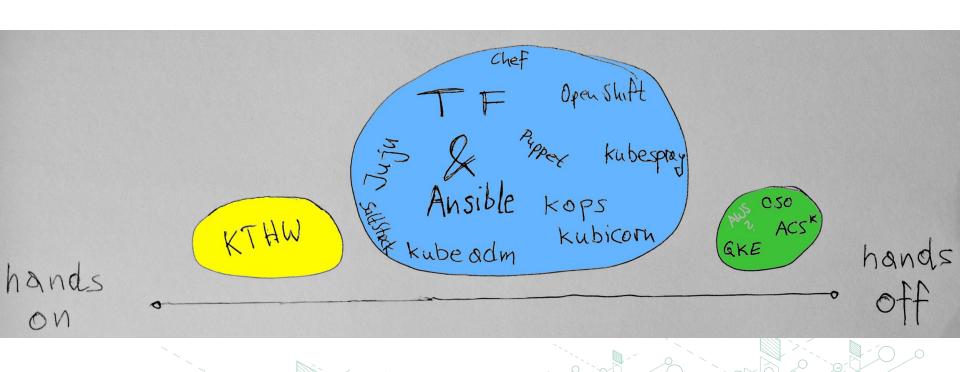












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Source: https://blog.openshift.com/kubernetes-little-guide-install-options/







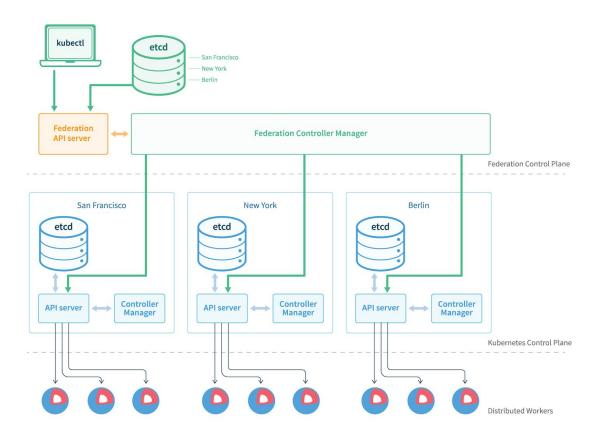
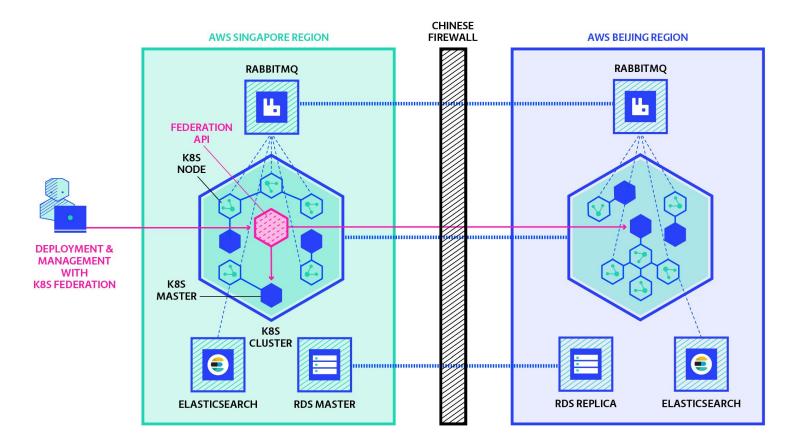


Image courtesy of CoreOS





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













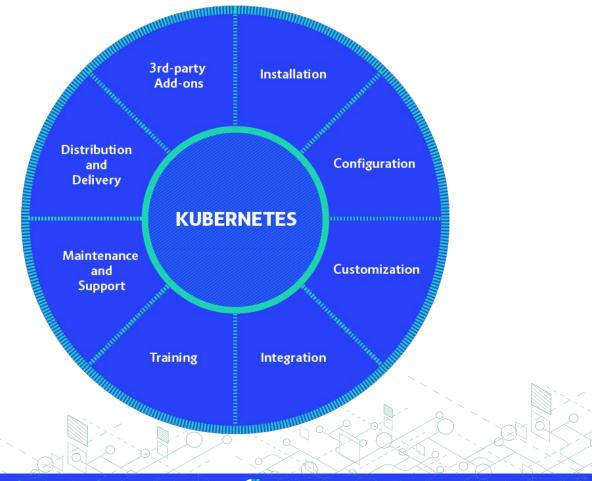












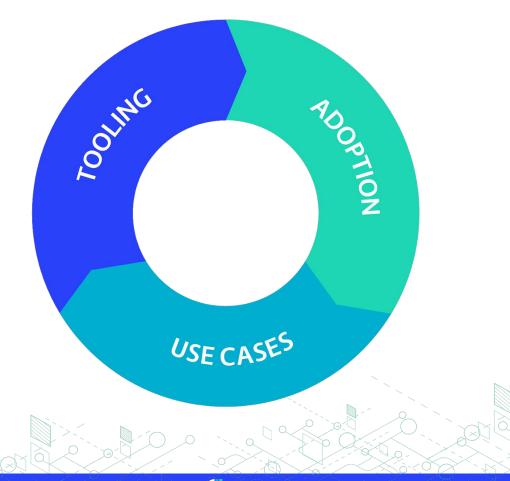
More Challenges

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



Will Kubernetes Cross the Chasm?





When Will Kubernetes Cross the Chasm?



Thanks.



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