



KubeCon



CloudNativeCon

North America 2018

Kubernetes: Living Up to the Hype

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@janet_kuo





BITCOIN SCAM: MAN ARRESTED AFTER MAKING OVER \$1 MILLION SELLING CHUCK E. CHEESE TOKENS AS "BITCOINS"



Why Kubernetes Lives Up to the Hype

1



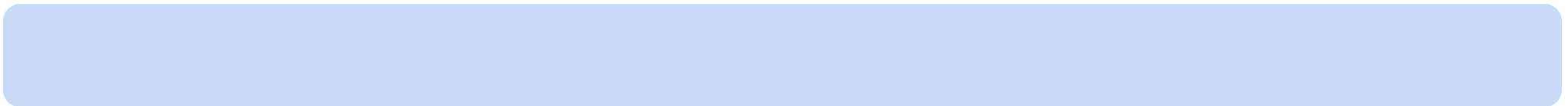
2



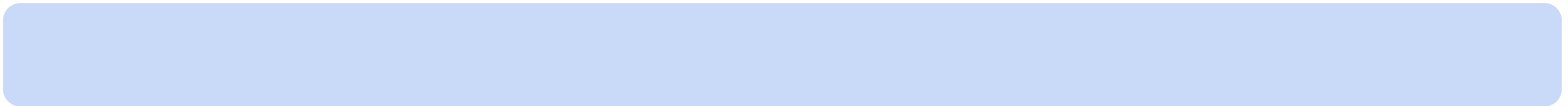
3



4



5

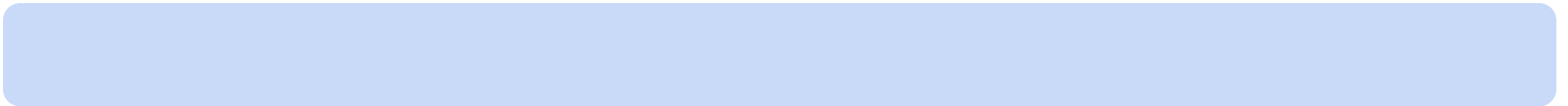


Why Kubernetes Lives Up to the Hype

1



2



3



4



5

Over a decade of experience running containers in production

Borg

Google Search

Gmail

YouTube

...

The Google logo, consisting of the word "Google" in its characteristic multi-colored font.

Why Kubernetes Lives Up to the Hype

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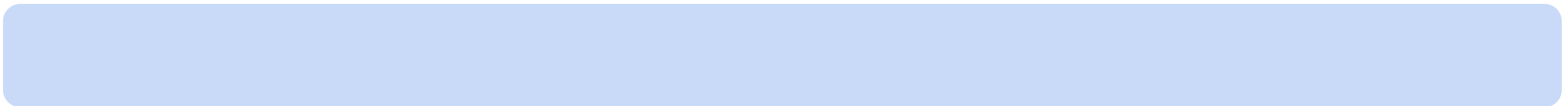
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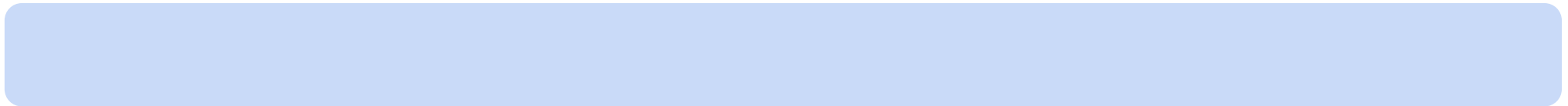
Over a decade of experience running containers in production

Why Kubernetes Lives Up to the Hype

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User focused



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<> Code

Issues 2,172

Pull requests 1,019

Projects 12

Insights

Branch: master


kubernetes / cluster /

Create new file























Upload files

Find file

History

 **mborsz** Revert "Check for hostError and automaticRestart when test finishes." Latest commit 047aa25 2 days ago

..

 addons	Merge pull request #70932 from caseydavenport/calico-v3.3	3 days ago
 centos	Removed .salt template , using .sed template	19 days ago
 gce	Update Cluster Autoscaler version to 1.13.0	4 days ago
 images	Merge pull request #70471 from xichengliudui/fix181031	3 days ago
 juju	fix some typos	2 months ago
 kubemark	GC kubemark image after cluster starts up	3 months ago
 kubernetes-anywhere	Update all script to use /usr/bin/env bash in shebang	8 months ago
 local	Remove duplicated detect-master for local	4 months ago
 log-dump	Revert "Check for hostError and automaticRestart when test finishes."	2 days ago
 pre-existing	Update all script to use /usr/bin/env bash in shebang	8 months ago
 skeleton	fix issue that e2e script exits due to unbound variables	2 months ago
 BUILD	upstream heptio/kube-conformance	2 months ago
 OWNERS	Add spiffxp to OWNERS files in bash-heavy dirs	3 months ago
 README.md	Cleaning up the cluster directory deprecation notice.	3 months ago
 clientbin.sh	enable e2e test on Arm64	4 months ago
 common.sh	Update all script to use /usr/bin/env bash in shebang	8 months ago
 get-kube-binaries.sh	Make get-kube.sh work properly the "ci/latest" pointer	2 years ago
 get-kube-local.sh	fix create-kubelet-kubeconfig.	4 months ago
 get-kube.sh	Remove salt support for providers that no longer exist.	11 months ago
 kube-down.sh	Exit gce kube-up.sh early if openssl is LibreSSL	4 months ago
 kube-up.sh	Update all script to use /usr/bin/env bash in shebang	8 months ago
 kube-util.sh	Update all script to use /usr/bin/env bash in shebang	8 months ago



Kubernetes Bootstrapping Challenge

Create a Kubernetes cluster from scratch in 45 minutes, without running any script.



Kelsey Hightower 

@kelseyhightower

When your engineers have the same problems as the people they are building things for, watch how fast the problems get fixed.

11:53 AM - 30 Jun 2016 from [Mountain View, CA](#)

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Over a decade of experience running containers in production

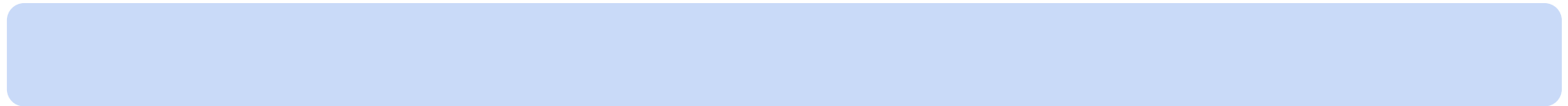


Why Kubernetes Lives Up to the Hype

1



2



3

Declarative API & automation

4

User focused

5

Over a decade of experience running containers in production

Imperative vs. Declarative

Imperative

manual driving

vs.

Declarative

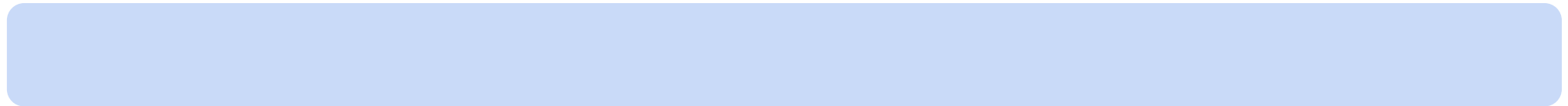
autopilot

Why Kubernetes Lives Up to the Hype

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Declarative API & automation

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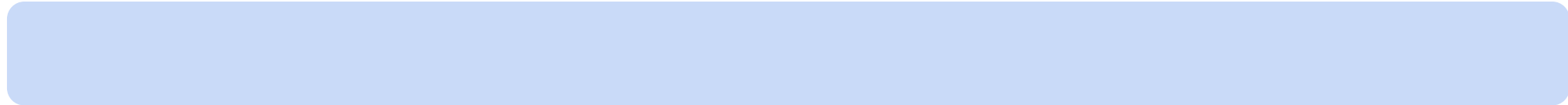
User focused

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Over a decade of experience running containers in production

Why Kubernetes Lives Up to the Hype

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Kubernetes runs anywhere

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Declarative API & automation

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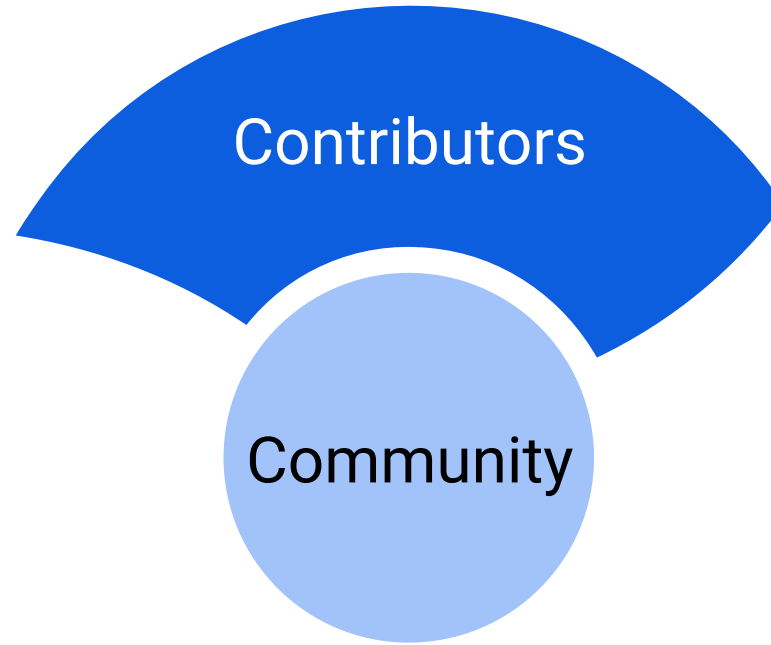
User focused

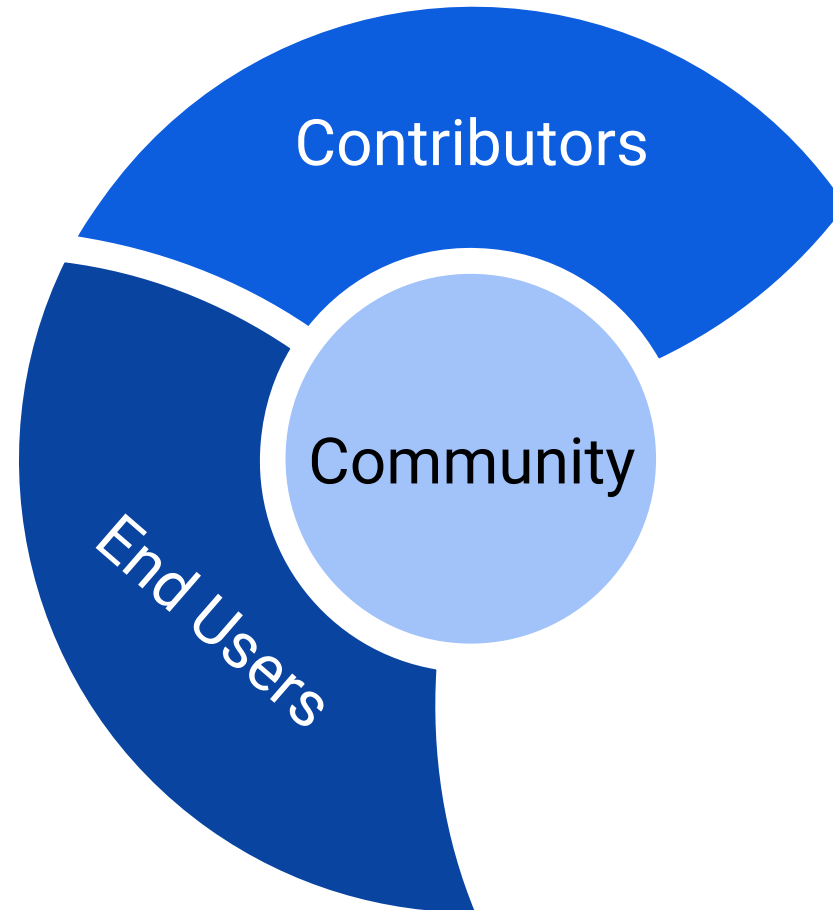
5

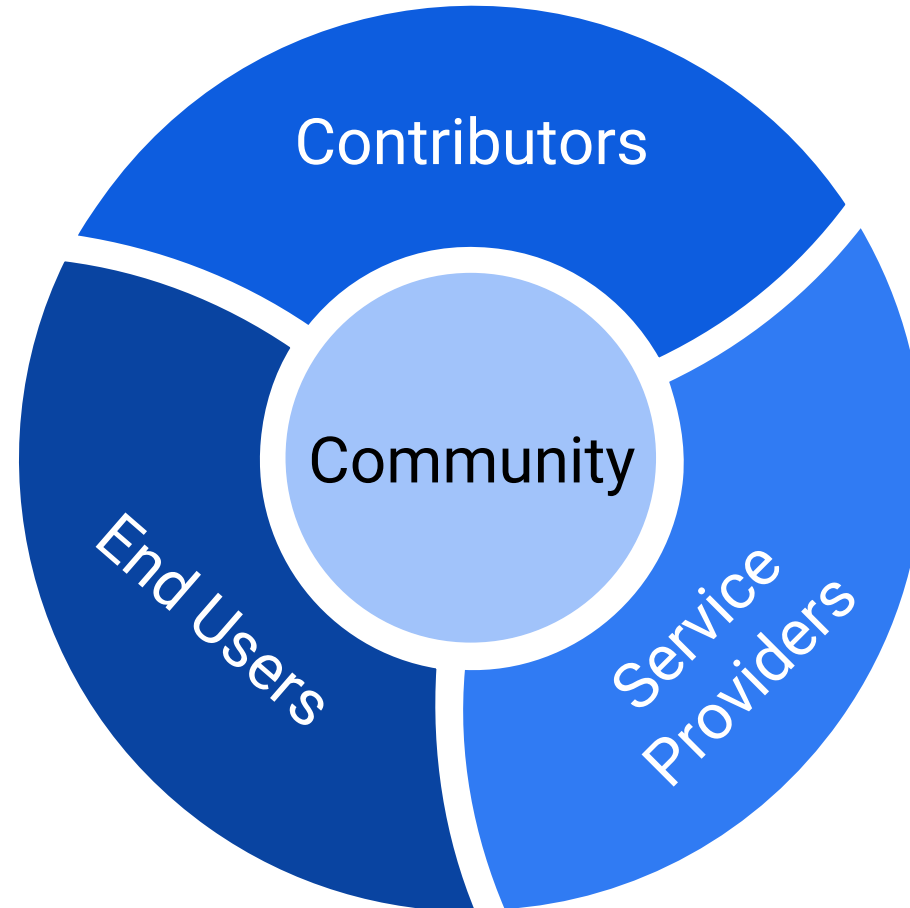
Over a decade of experience running containers in production

Why Kubernetes Lives Up to the Hype

- 1** Community
- 2** Kubernetes runs anywhere
- 3** Declarative API & automation
- 4** User focused
- 5** Over a decade of experience running containers in production







What's Next?

Quality



Quality



Experience



Quality



Experience



Conformance

