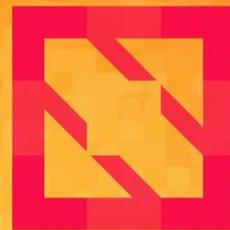




KubeCon



CloudNativeCon

North America 2019



Katie Gamanji

Cloud Platform Engineer
Condé Nast

 [katie-gamanji](#)

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KubeCon



CloudNativeCon

North America 2019

Creating a Micro Open-Source Community with Helm

Katie Gamanji



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DevExp



Support Topology



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& GARDEN

VANITY FAIR

GLAMOUR



12

Markets



86

Websites



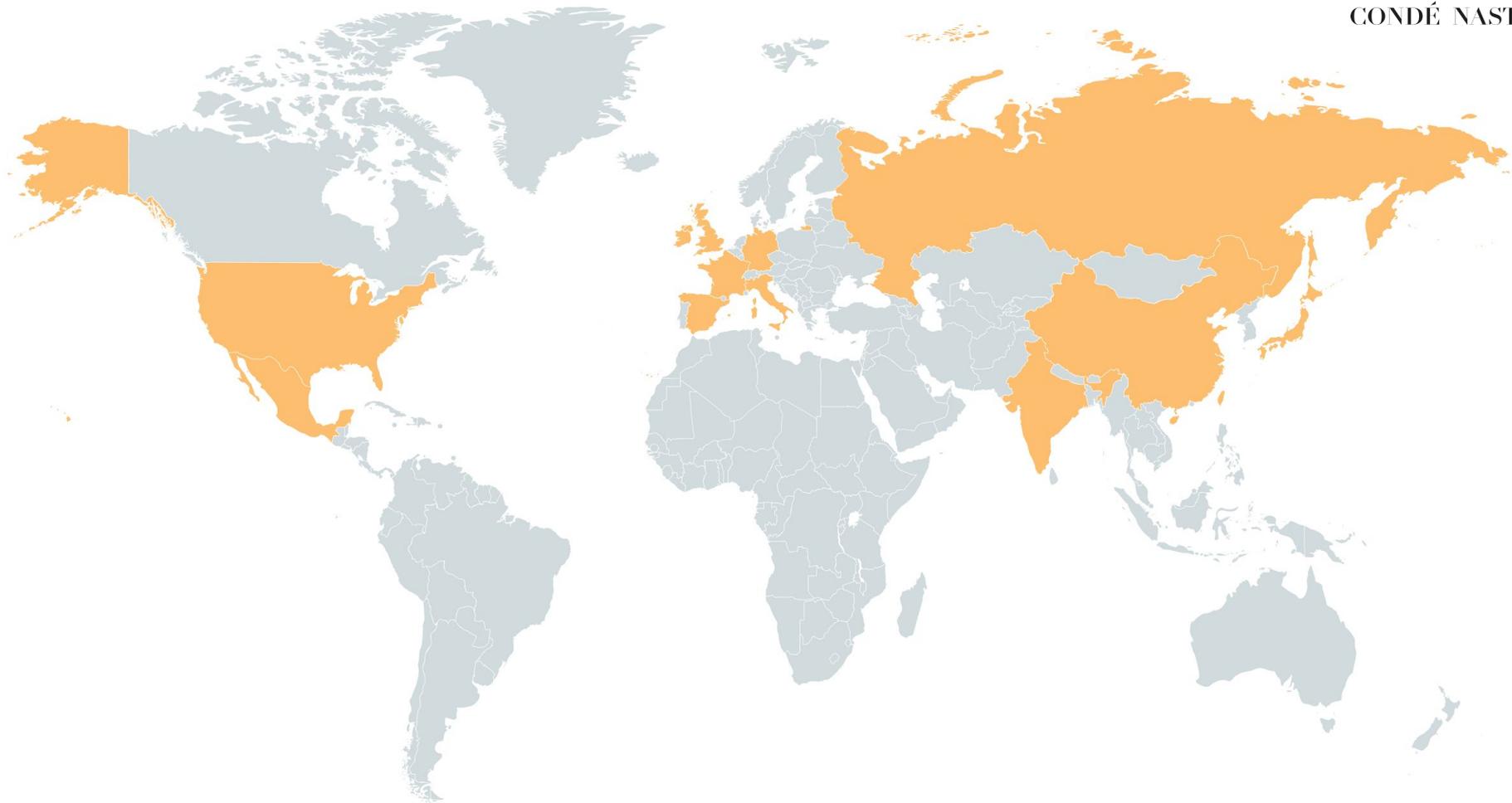
336m

Unique users



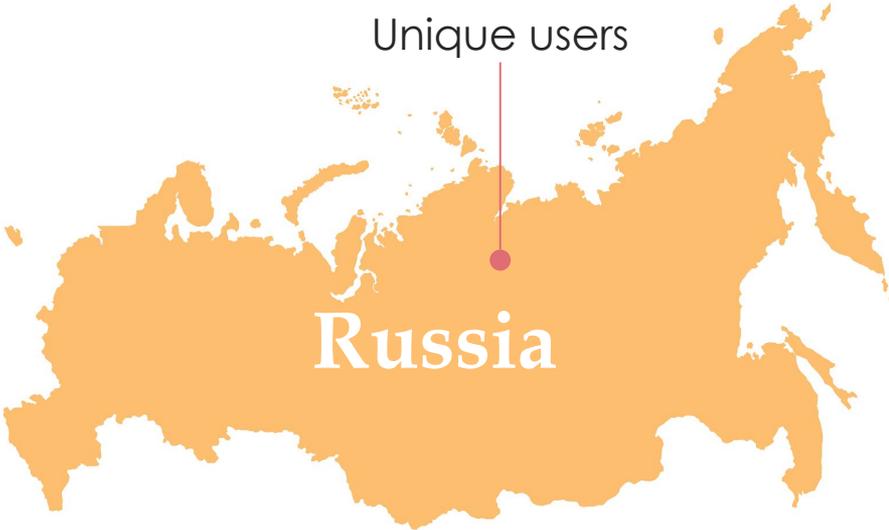
1.6bn

Digital readership



10m

Unique users



Russia

53m

Unique users



China

335m

Total digital readership





Migrated websites



22/35



268m

Digital readership



Developer Experience



40

—

Developers



40

—

Applications



15

—

Deployments





- **Base**
- **Ingress**
- **Service**
- **HPA**
- Fluentd
- Cronjob
- Job
- Network policies
- Resource quotas



Image

Replicas

Annotations

Service

Resource requests

Ingress

Readiness probes

Liveness probes

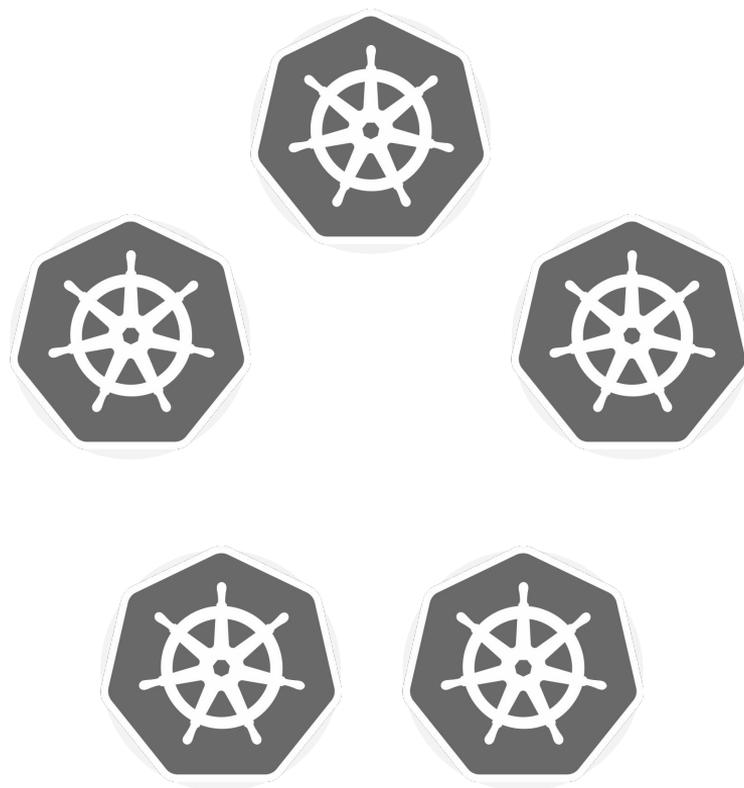
Environmental variables

Lifecycle hooks

HPA



```
name: azimuth
replicaCount: 3
image:
  repository: quay.io/azimuth
service:
  enabled: true
  internalPort: 8080
  externalPort: 80
ingress:
  enabled: true
  traefik: traefik-restricted.lb.endpoint
  type: internal
  rules:
    - host: azimuth.ui.cni
      path: /
```

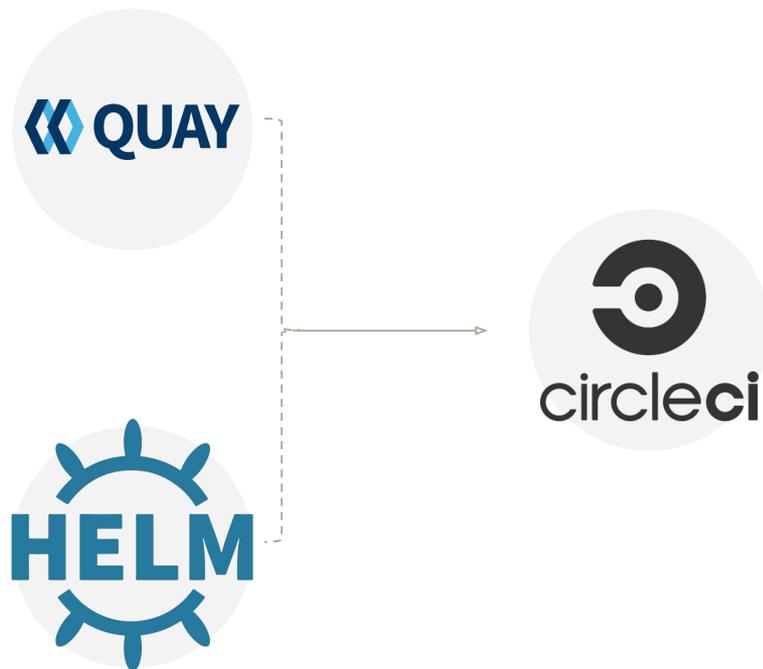


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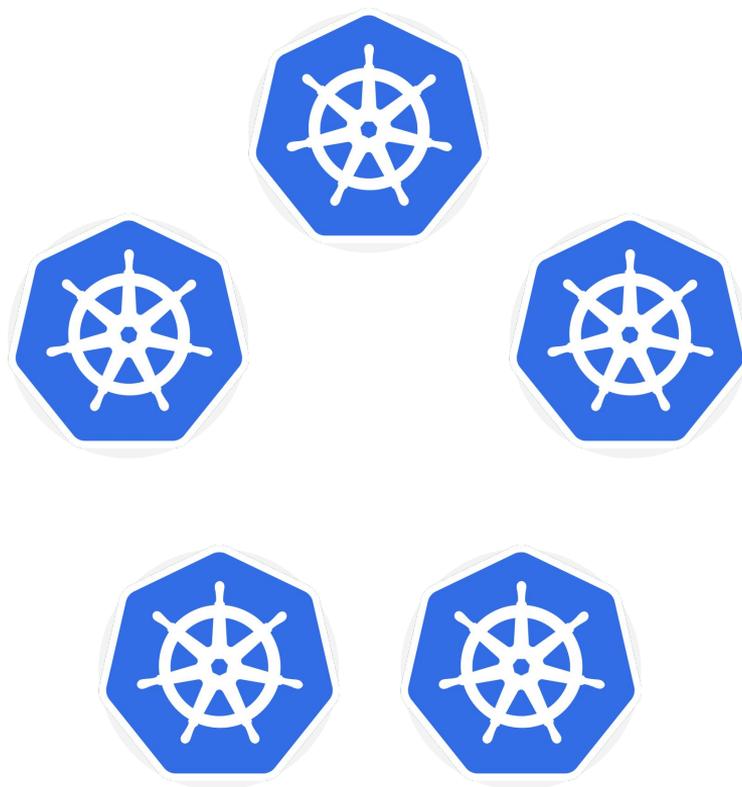


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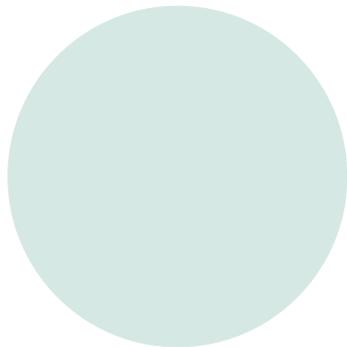
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Support Topology



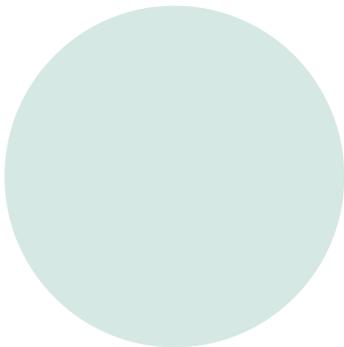
Platform Team



Cloud platform
+
Infrastructure
management



Cloud platform
+
Infrastructure
management
+
SRE



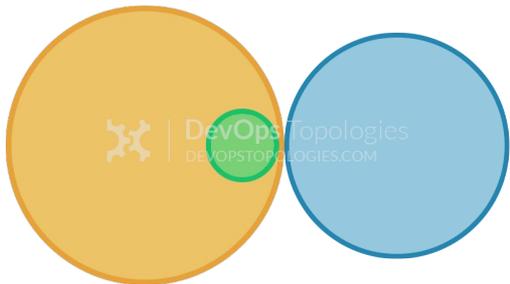
Platform Team



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Infrastructure
management

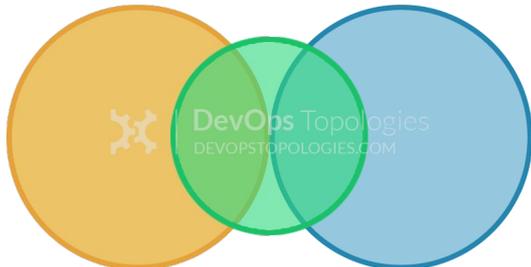


Cloud platform
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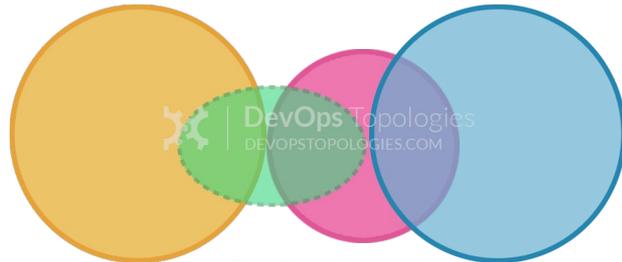
● Dev ● DevOps ● Ops

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Open Source

Add support for setting a preStop hook #158

CONDÉ NAST

Merged

Conversation 6

Commits 2

Checks 0

Files changed 4



TICKET: UNTICKETED

Description

The change allows for a `preStop hook` (`command` -only) to be specified by users of the chart.

Why might we want a preStop handler?

Adding a simple `preStop` handler that does a `sleep 10` should make these 502/504 errors go away (this is `prod`, notice a couple of spikes north of 1.5k in a two hour window):





Ch23242/update helm chart to use hpa #153

Merged

Conversation 0

Commits 2

Checks 0

Files changed 2



TICKET:
ch23242

Description

At IO we have been trying to deploy an autoscaler based on custom external metrics, and have found that the metric value we had in datadog was being divided by the number of pods currently running, which got us to realise we could target the metric using `targetAverageValue` and `targetValue`.

For some reason, the HPA template is translating `targetValue` to `targetAverageValue`.

The change made allows to use one or the other metric, not both, as specified in the documentation.

Add pod annotation values to Chart `cnid/job` #156

Merged

Conversation 0

Commits 2

Checks 0

Files changed 2



Description

Add pod annotation support to the job template.

The changes are just copied from cron annotation template.

Testing

Tested with local chart:

```
cd chroma-es-sync
helm upgrade --debug --dry-run -f .circleci/helm/job/staging.yml --set image.tag=latest --install
```



Extend base chart to support secret volumes #164

Merged

Conversation 3

Commits 2

Checks 0

Files changed 4



TICKET:

[ch29464](#)

Description

Sometimes you need secret credentials or certificates to be stored in the file system, for example when using [service accounts with the Google Node.js libraries](#).

With this change teams may add the following to their helm chart config file:

```
volumes:  
  secretVolume:  
    enabled: true
```



Terraform modules



DevExp



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