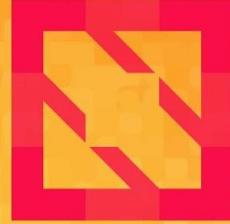




KubeCon



CloudNativeCon

North America 2019



Katie Gamanji

Cloud Platform Engineer
Condé Nast

 [katie-gamanji](#)

 [@k_gamanji](#)





KubeCon



CloudNativeCon

North America 2019

Creating a Micro Open-Source Community with Helm

Katie Gamanji



katie-gamanji
@k_gamanji





DevExp



Support Topology



Helm µOSC



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“

Has set the benchmark
for print and digital
publishing with a
heritage of more than
110 years.

”

CONDÉ NAST

GQ

L'UOMO
VOGUE

VOGUE

Condé Nast
Traveler

THE WORLD OF
INTERIORS

TATLER

allure

AD
ARCHITECTURAL DIGEST

WIRED

HOUSE
& GARDEN

VANITY FAIR

GLAMOUR



12

—
Markets



86

—
Websites



336m

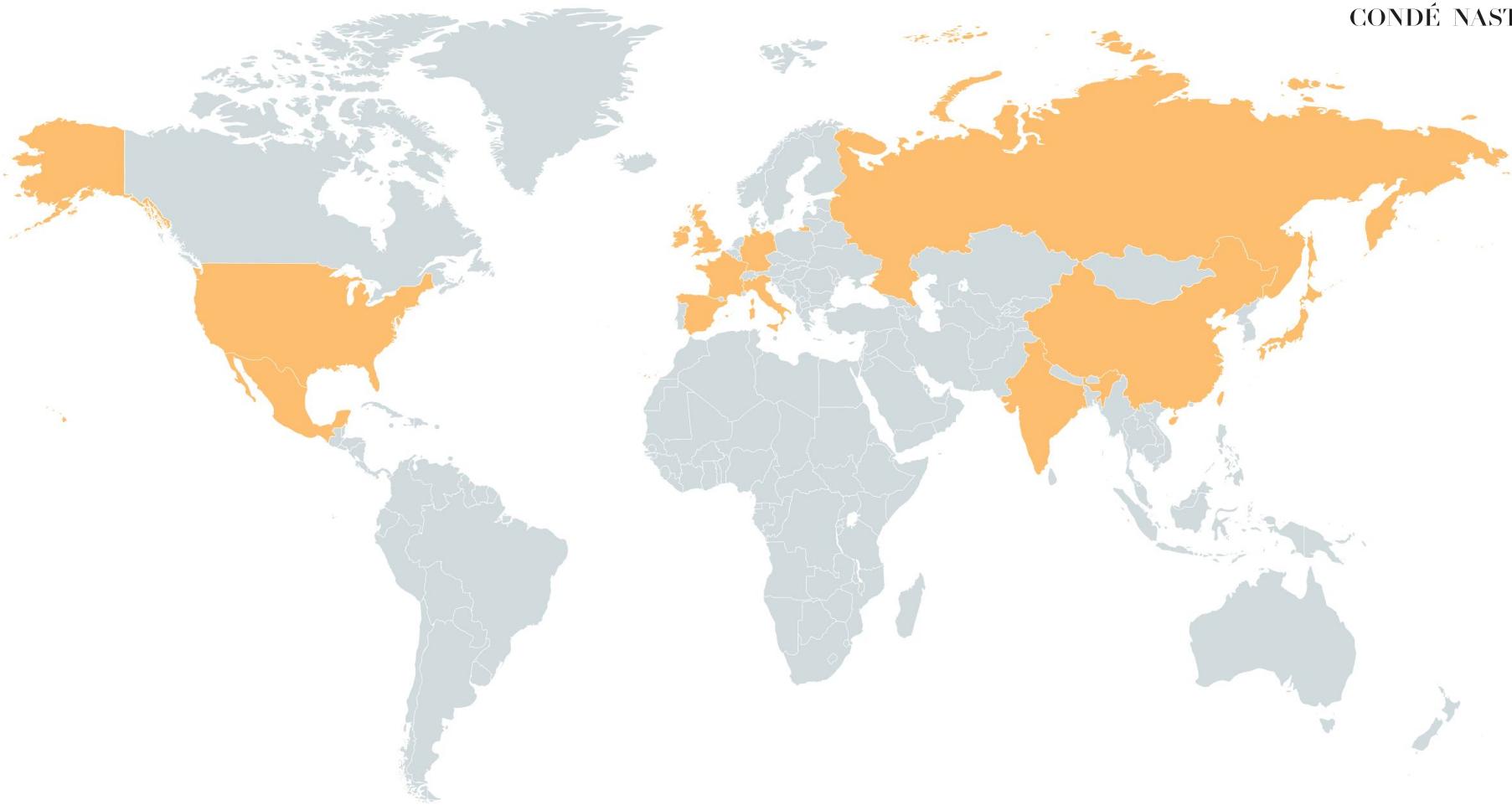
—
Unique users



1.6bn

—
Digital readership

CONDÉ NAST



10m

53m

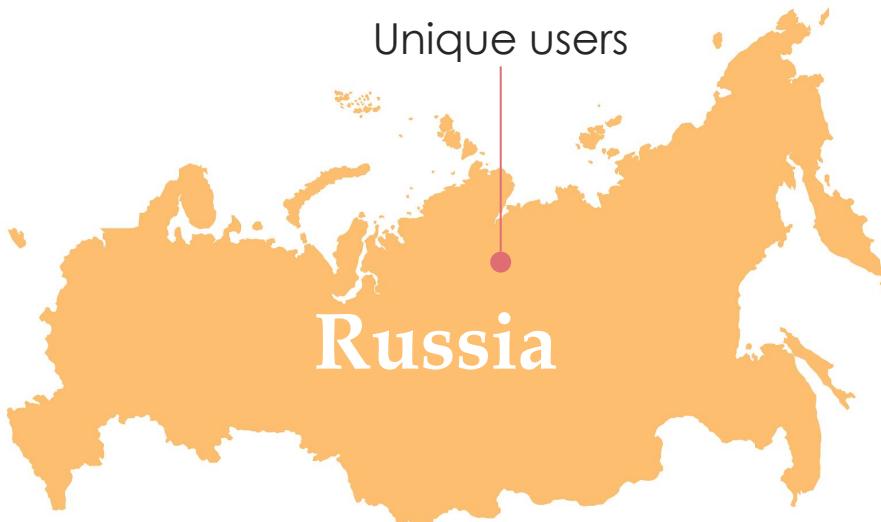
Unique users

Russia

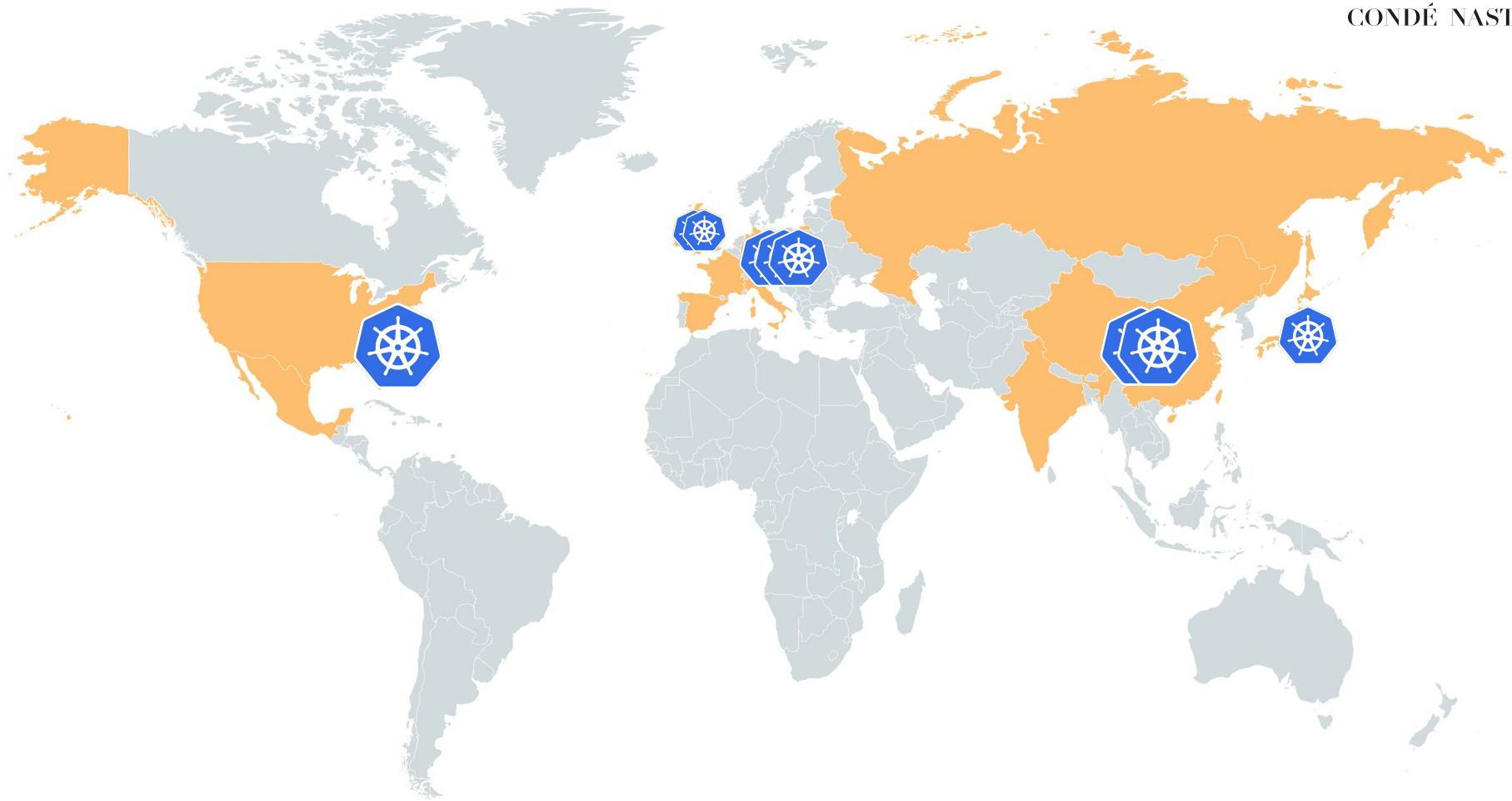
China

335m

Total digital readership



CONDÉ NAST



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Migrated websites



22/35

—

268m

Digital readership

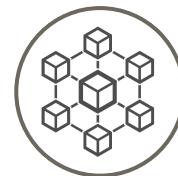
A photograph showing a man in a Gucci outfit walking through a crowd at a fashion show. He is wearing a brown snakeskin jacket over a pink and blue patterned sweater, white pants with a green and red stripe, and a matching cap. He is also wearing sunglasses and a gold chain. The crowd consists of other people in various styles of clothing, some holding Gucci brochures.

Developer Experience



40

—
Developers



40

—
Applications



15

—
Deployments

CONDÉ NAST





- **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

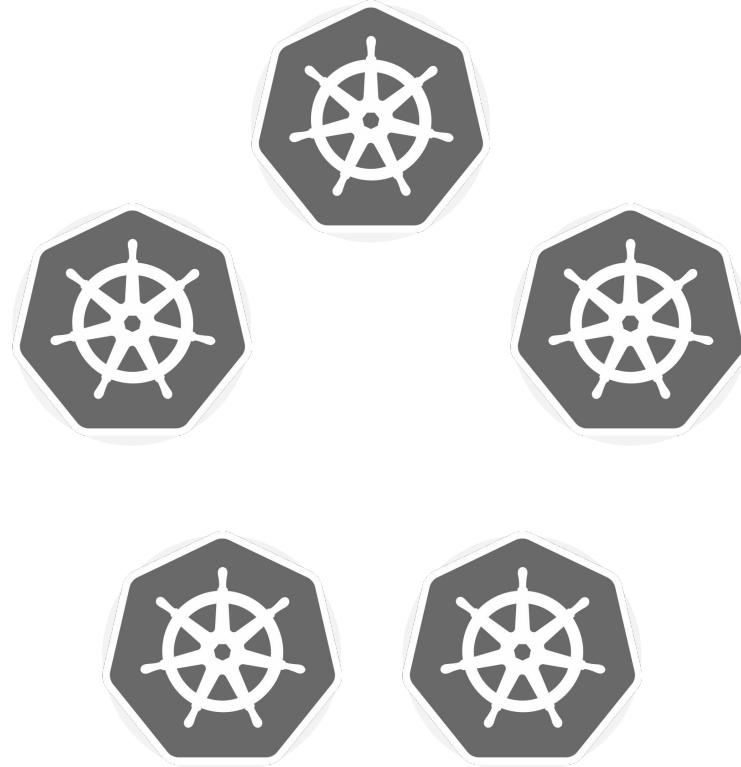
  traefik: traefik-restricted.lb.endpoint

  type: internal

  rules:

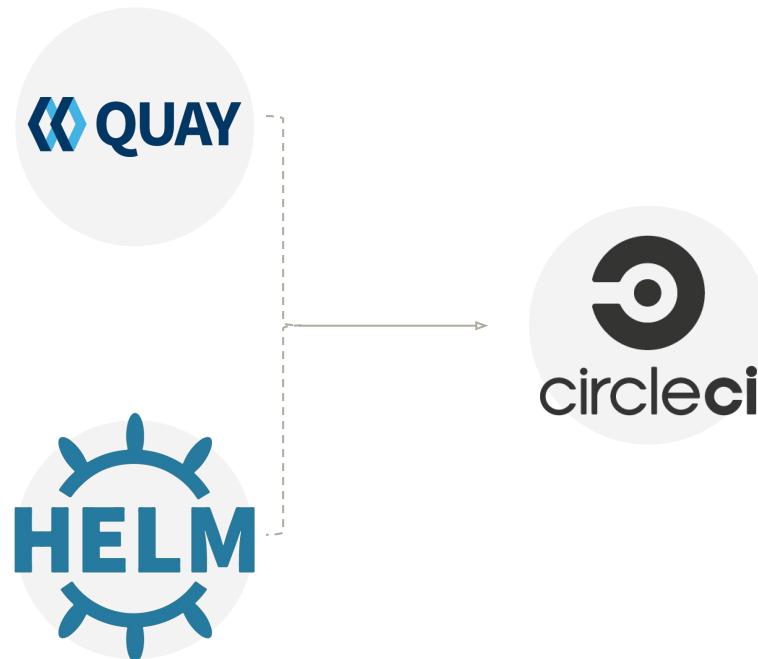
    - host: azimuth.ui.cni

      path: /
```

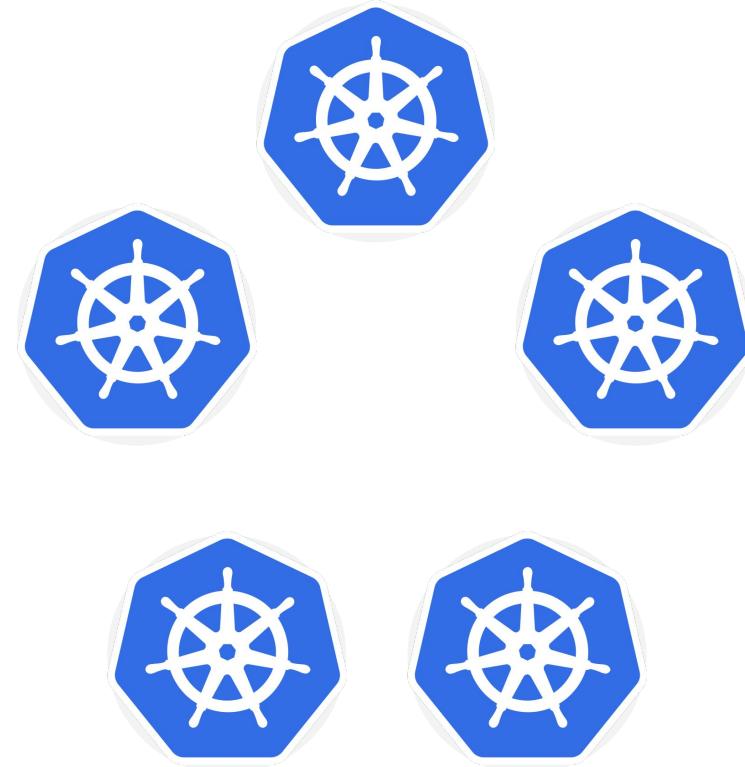


-



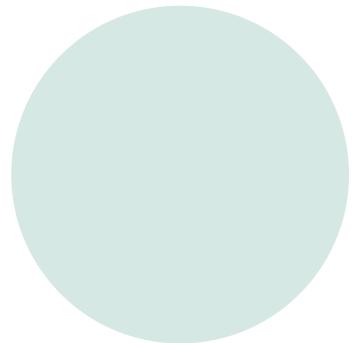






A photograph of a woman with short dark hair, smiling broadly. She is wearing a green jacket with a white Gucci monogram pattern. The background is a vibrant, multi-colored mural depicting figures in traditional or historical attire, possibly from a story like Aladdin. The mural includes pink flowers and a green wall with a gold vine pattern.

Support Topology



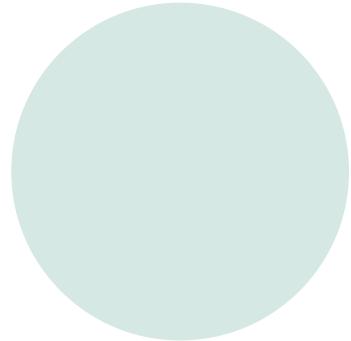
Platform Team



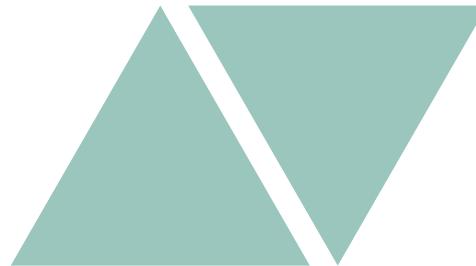
Cloud platform
+
Infrastructure
management



Cloud platform
+
Infrastructure
management
+
SRE



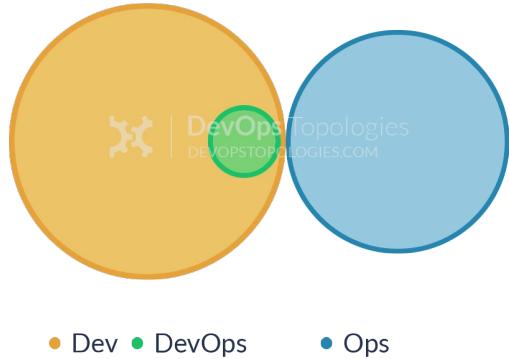
Platform Team



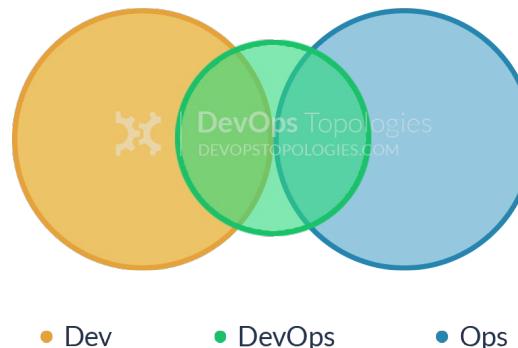
Cloud platform
+
Infrastructure
management



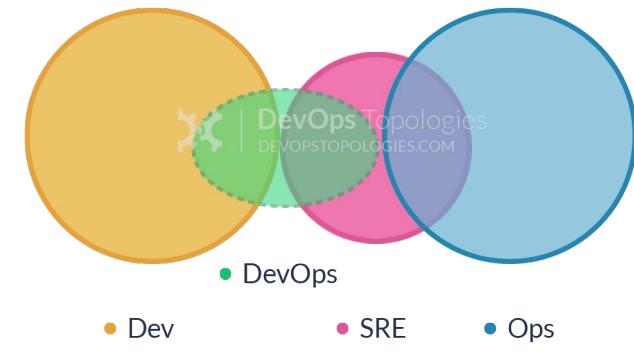
Cloud platform
+
Infrastructure
management
+
SRE



Platform Team



Cloud platform
+
Infrastructure management



Cloud platform
+
Infrastructure management
+
SRE



Helm µOSC

Open Source

Add support for setting a preStop hook #158

CONDÉ NAST

Merged

Conversation 6

Commits 2

Checks 0

Files changed 4



+
...

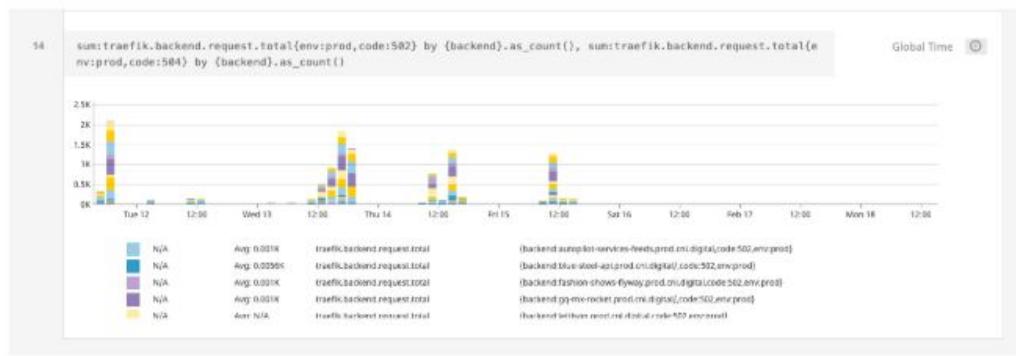
TICKET: UNTICKETED

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.yaml --set image.tag=latest --instal
```

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



Support Topology



Helm µOSC



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Created a coherent environment to further enable technological initiatives, while instigating micro open-source communities.

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