

Updating Kubernetes with Helm Charts: Build, Test, Deploy



on



Steve Lasker, Microsoft



Josh Dolitsky, Codefresh



Dan Garfield, Codefresh

Dan Garfield

Chief Evangelist



 **codefresh**

Steve Lasker

Principal Program manager



Josh Dolitsky

Senior Software Engineer

 **codefresh**

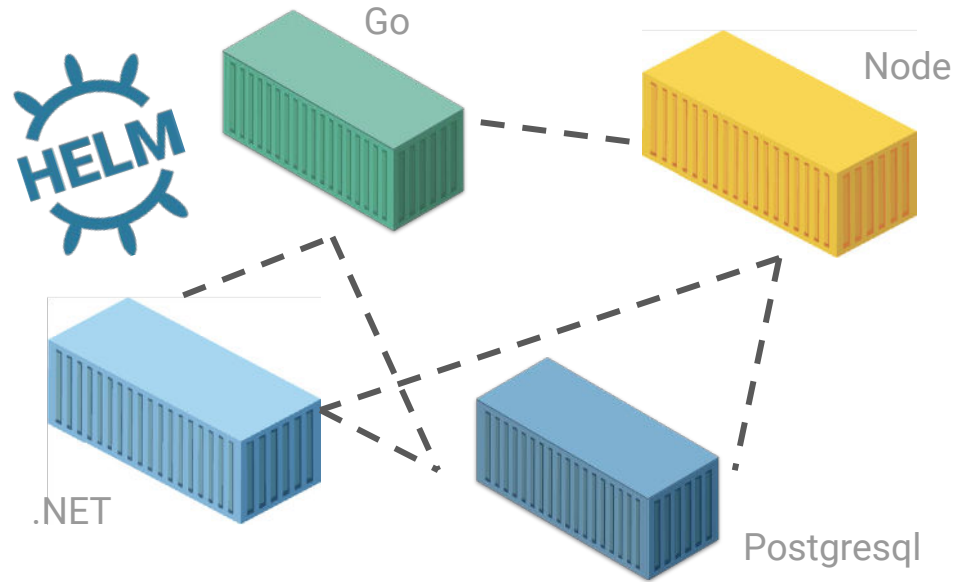


Agenda

- Intro to Helm
- Helm Repositories
- Workflows with Helm
- Demo

HELM

The package manager for
Kubernetes



Helm makes Kubernetes apps awesome

Templating

Stop writing the same YAML over and over

Reliable Deployment

Keep all components up-to-date

Manage Dependencies

Your chart needs SQL, it knows how to get the package.

Deployment History

Rollback the entire app and config

Package Your App

All config and images in a simple package.

Helm makes Kubernetes apps awesome

Templating

Stop writing the same YAML over and over

Reliable Deployment

Keep all components up-to-date

Manage Dependencies

Your chart needs SQL, it knows how to get the package.

Deployment History

Rollback the entire app and config

Package Your App

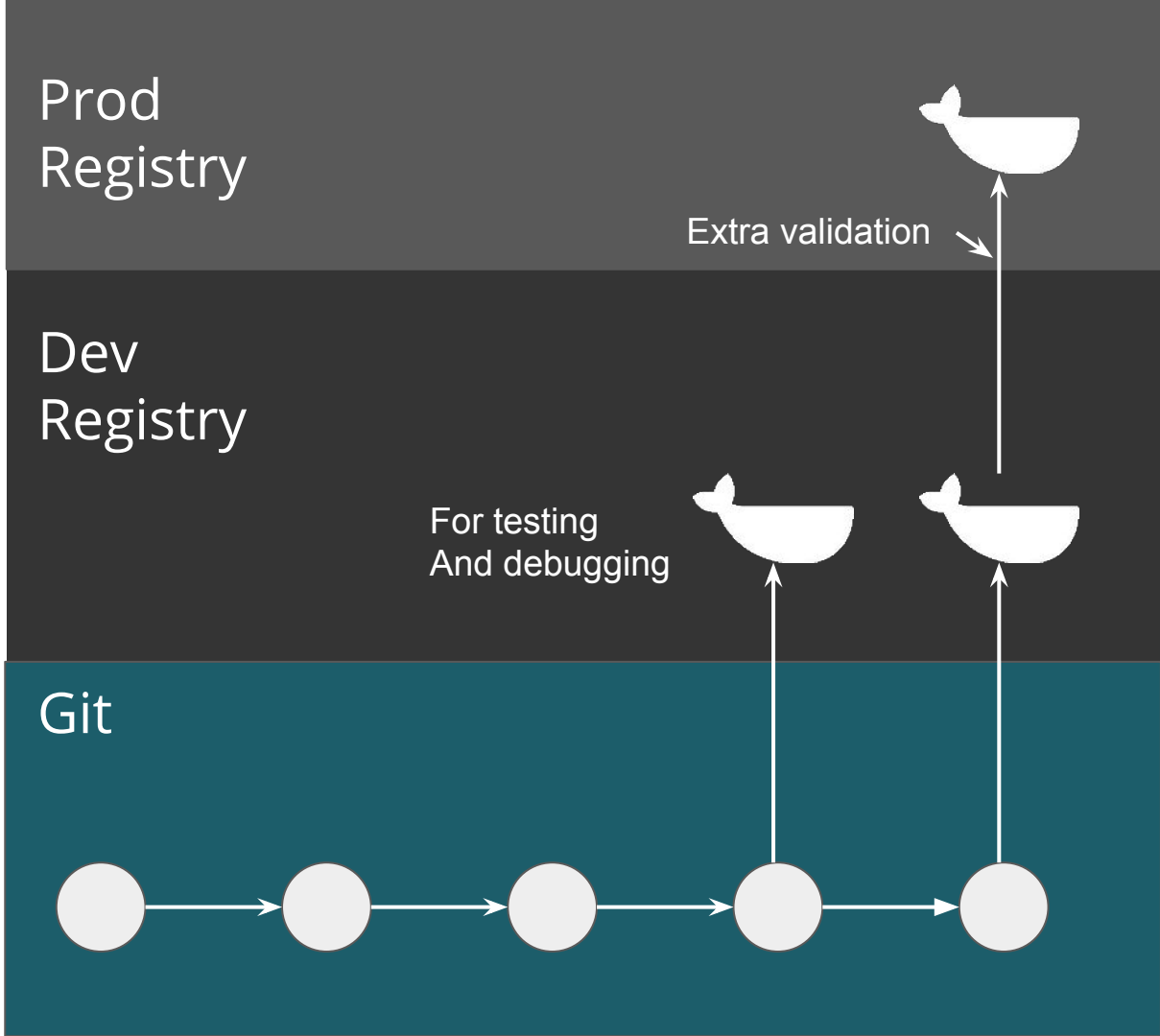
All config and images in a simple package.

Git

Docker

Helm

Docker flow



Helm flow

Prod
Registry



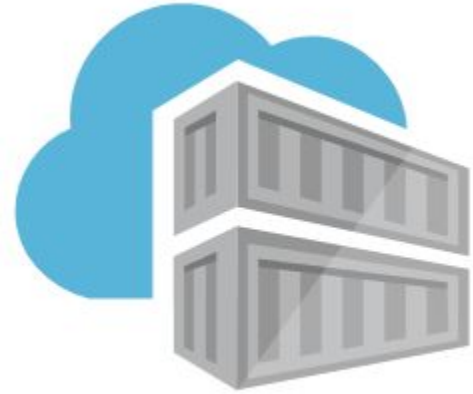
Dev
Registry



Git

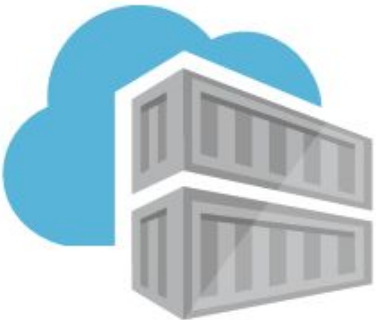


Azure Container Registry



- Store Helm Charts, alongside Images
- Share common authentication & control

aka.ms/acr/helm-charts

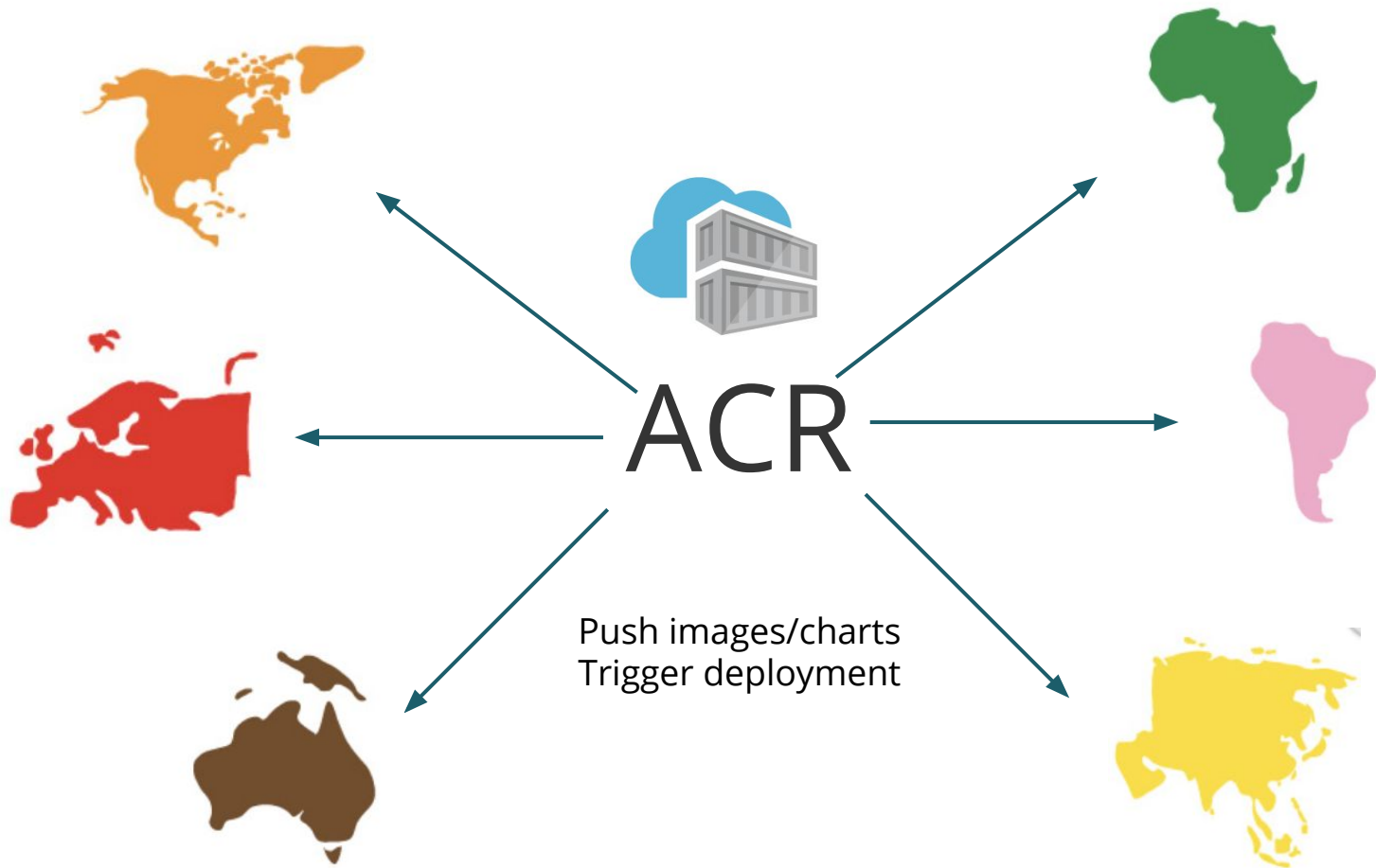


ACR Geo-replication

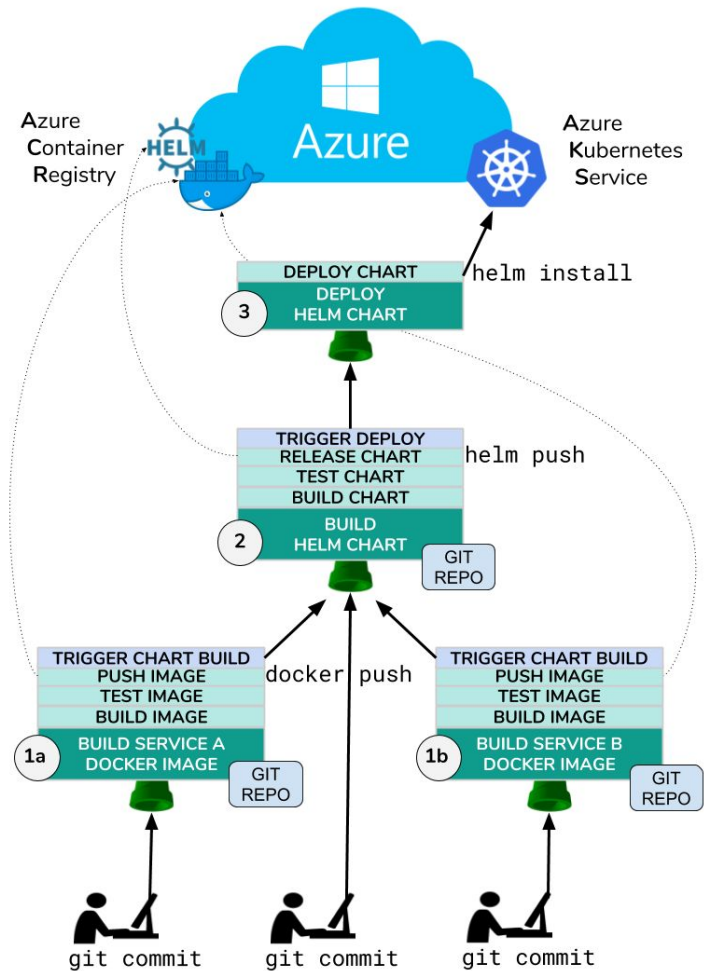


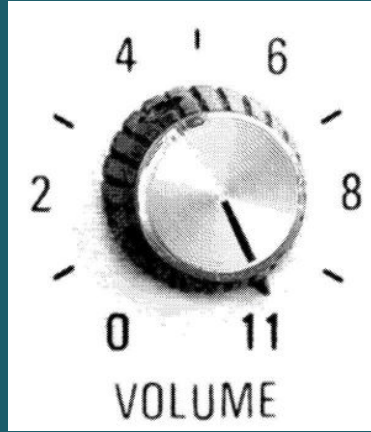
- Mange global/local deployments as one resource
- Geo-redundant for active-active-active failover

aka.ms/ACR/Geo-replication



github.com/codefresh-io/azure-helm-webinar





Demo time

Key Takeaways

- Helm workflows are similar to Docker Workflows
- Azure Container Registry supports Docker and Helm
- Codefresh + Azure FTW

Questions?



Get 120 FREE builds/month!
Signup & schedule a 1:1 with our
DevOps experts at
[Codefresh.io](https://codefresh.io)



Azure Container Registry
Helm Repos
aka.ms/acr/helm-repos