

Updating Kubernetes with Helm Charts: Build, Test, Deploy



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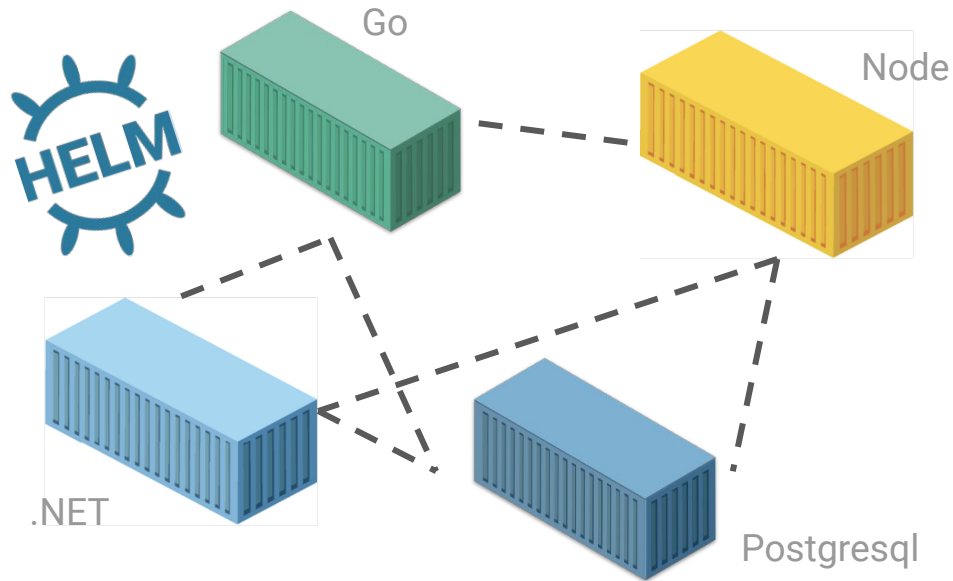


Agenda

- 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.

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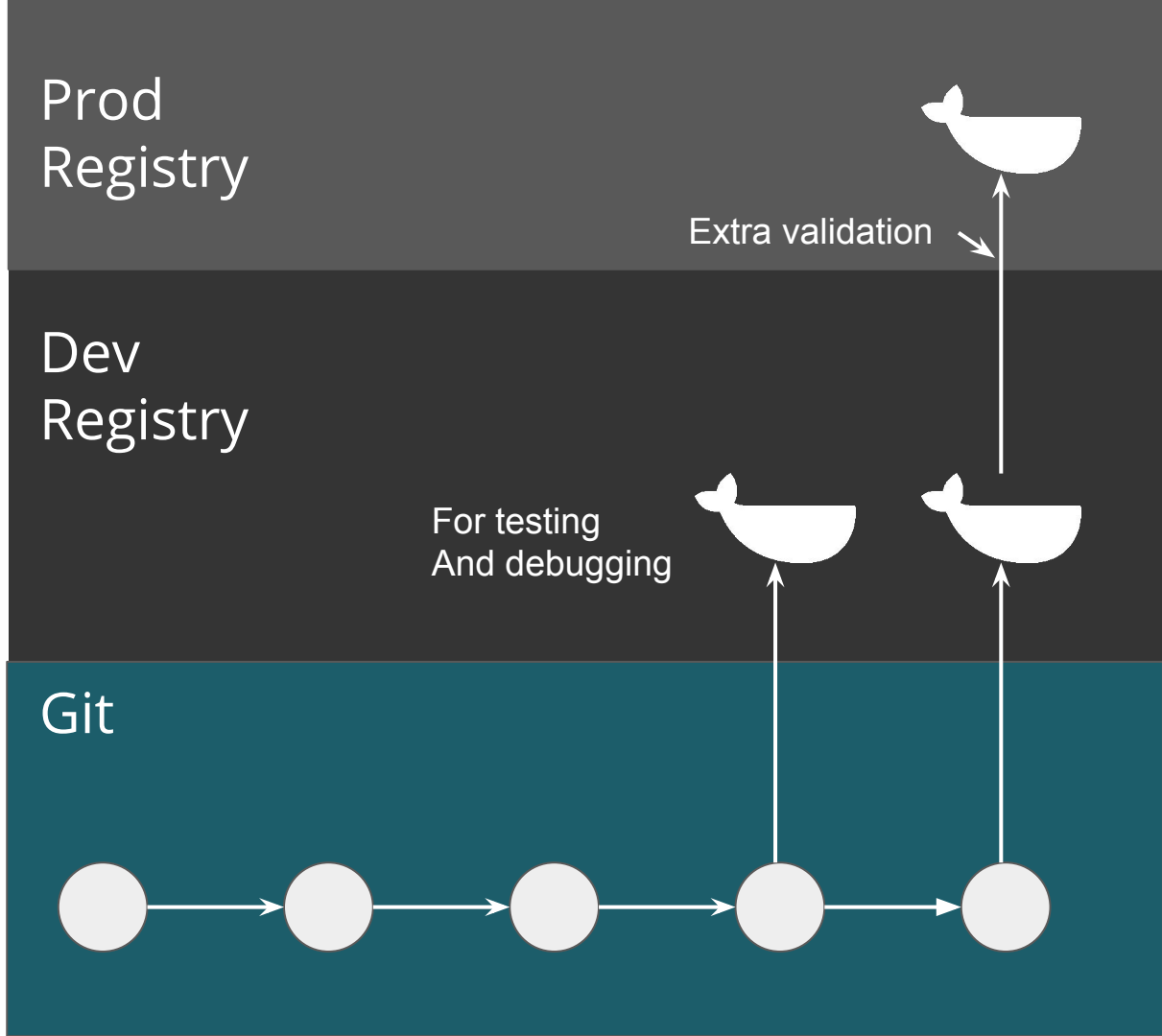
All config and images in a simple package.

Git

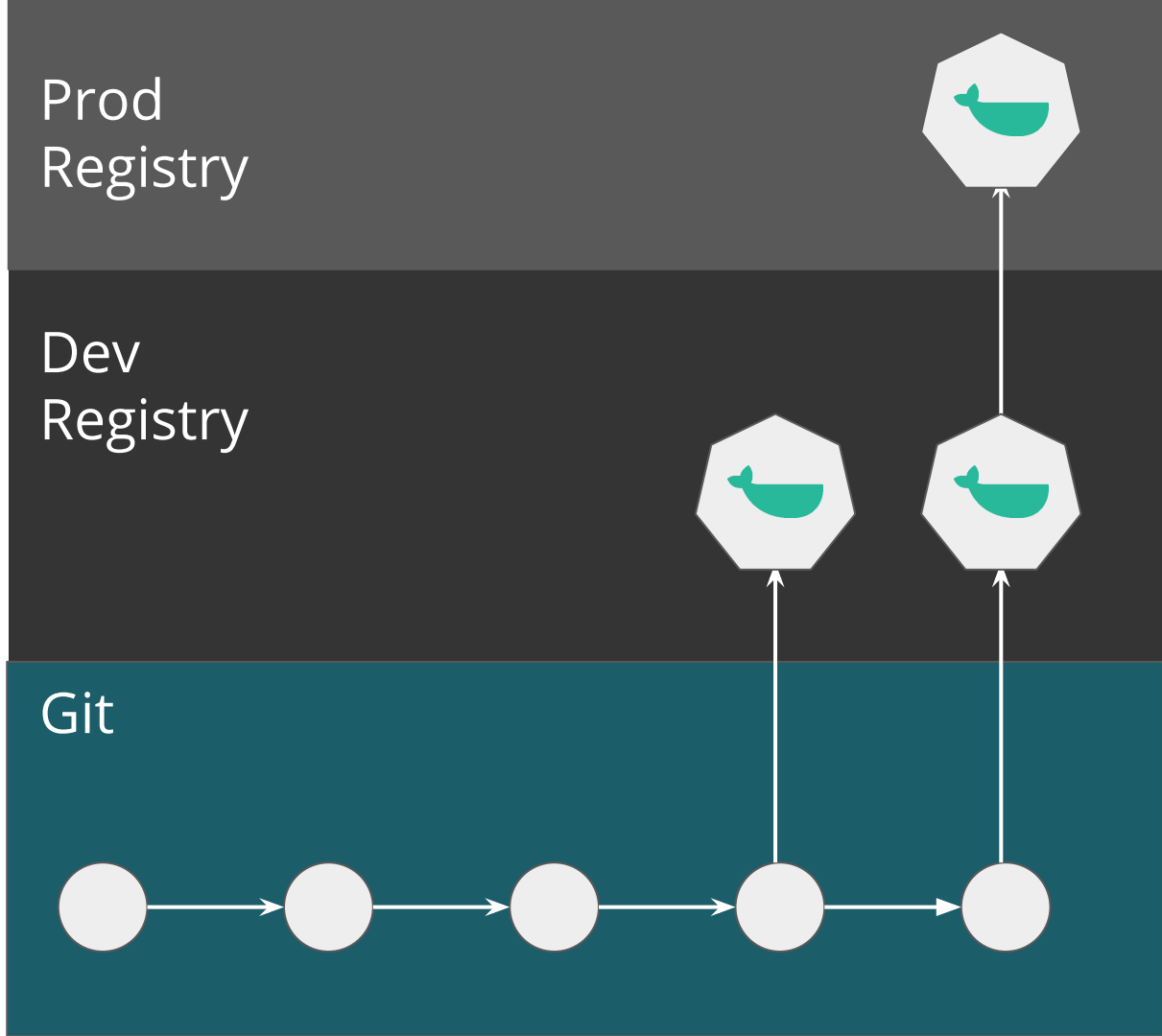
Docker

Helm

Docker flow



Helm flow

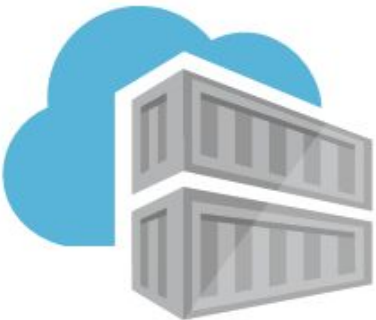


Azure Container Registry



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

aka.ms/acr/helm-charts

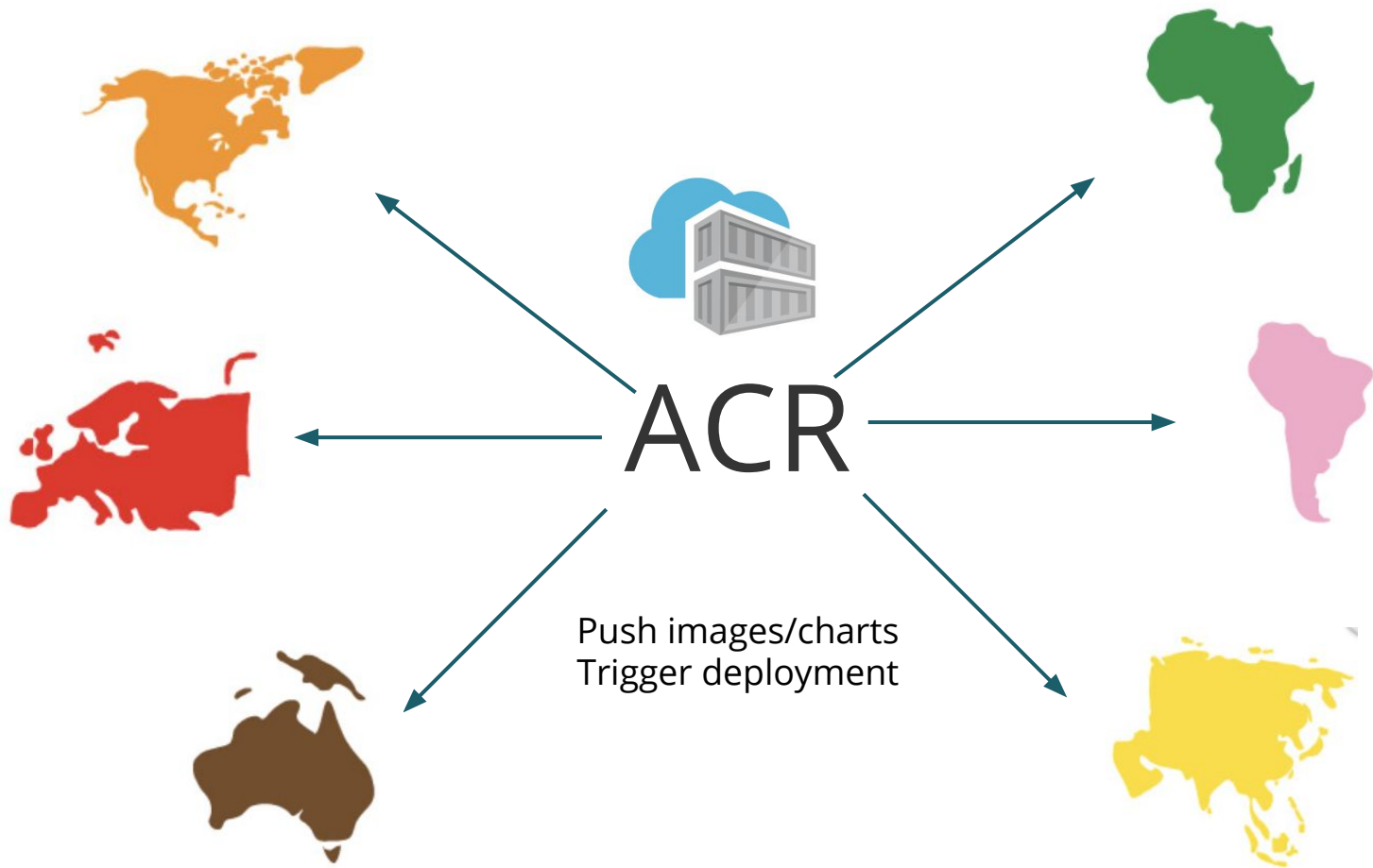


ACR Geo-replication

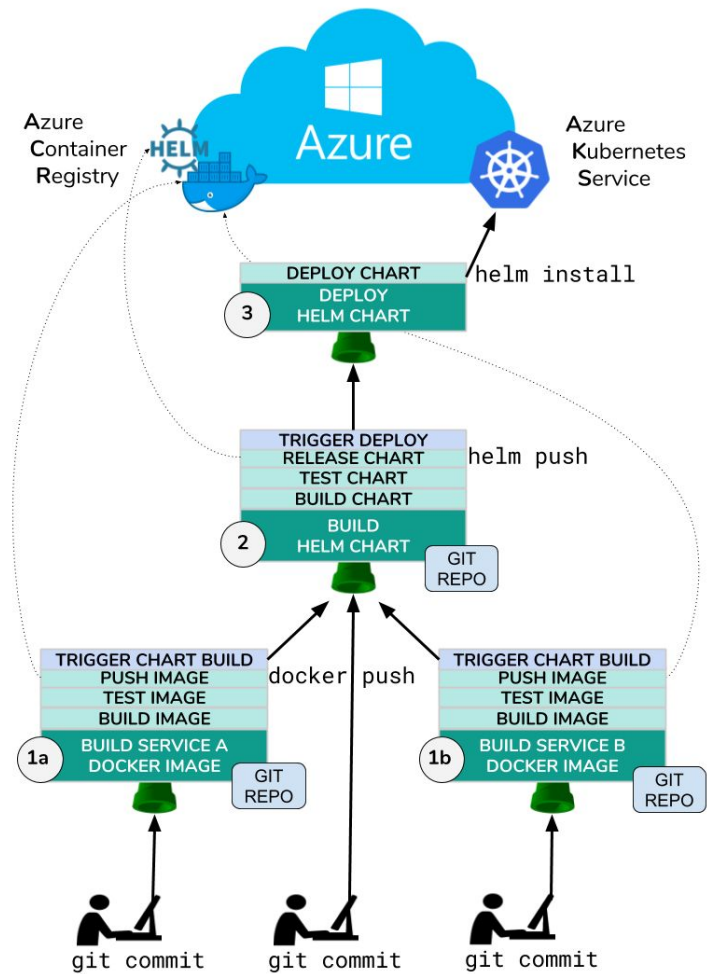


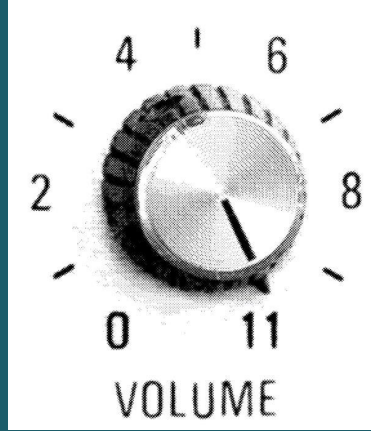
- Mange global/local deployments as one resource
- Geo-redundant for active-active-active failover

aka.ms/ACR/Geo-replication



[github.com/codefresh-io/
azure-helm-webinar](https://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?



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DevOps experts at
[Codefresh.io](https://codefresh.io)



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