KENZAN

KubeCon | CloudNativeCon

North America 2017

Expand Your Spinnaker Pipeline to the Desktop

KubeCon + CloudNativeCon
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About Kenzan

Core offerings
Digital Transformation, Application and Platform Development, Architecture Consulting

Primary Clients
Multi billion dollar companies and media/content providers such as Thomson Reuters, Charter & Cablevision

Locations
Providence (RI), New York (NY), Denver (CO), and Los Angeles (CA)

Founded in 2004.

FULL-SERVICE CONSULTING

Architecture, front and back end development, business analysis and DevTest.

CLOUD VIRTUALIZATION

Experts and enablers in AWS, Netflix stack, enterprise architecture and beyond.

DEVOPS LEADERSHIP

Platform builds, continuous delivery and scalable resourcing.

MEDIA INDUSTRY VETS

Migrations, enterprise wide solutions, digital experts and thought leaders.

EMPLOYEE-FOCUSED

Collaboration and culture are key.

Kenzan, NetflixOSS & Spinnaker

- ITV

- Microservices

- NetflixOSS

- Spinnaker collaboration

Pipelines do not start in the cloud

- Many reasons to run locally first

- Running locally reduces e2e visibility

How do we start local but remain cloud native?

Kubernetes is the new Linux

- Minikube is the k8s distro for the desktop
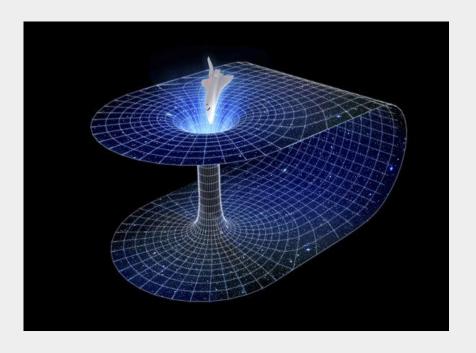
Local is not is not the cloud

- Clouds can be connected

- Workstations cannot (should not) be connected

- Workstations do connect to clouds

Wormholes

- k8s-wormhole
  - connect distant clusters

Building Wormholes

- Architecture diagram
  - server
  - client

Building Wormholes

- yaml

Spinnaker

- What is Spinnaker

- Multicloud CI/CD Orchestration

Spinnaker Pipelines

- Halyard for configuration

- Add minikube as just another k8s cluster

Spinnaker and Jenkins

- Commit and push

- Let someone else's hardware do the lifting

Now what

- Test

- Promote

One view

- Spinnaker Applications

- Pipeline of pipelines

Deep linking

- dive into the details

- trasparency

Demo

Cthulhu help us, we're doing it live

Long Term Value

- every developer has a cloud native environment
- every environment is connected to the cloud
- maximum visibility

Lessons Learned

- Kubernetes can do allthethings
- Any network can be bridged with wormholes
- SSH is great but there are better options

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