Helm Users! What Can Flux v2 Do For You

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Outline

- Talk about Flux + Helm Controller

- Flux CRDs - HelmRelease, Kustomization, (...)

- Demo During Slides (**N**arrow **E**xpand)

DEMO

Blog on Kubernetes

Live Activity

- `flux bootstrap`

- Kyverno

- Webhook Receiver

- Wordpress

DEMO

(just kidding - more)

Live Activity

- Jenkins

- Okteto Terminal

- Linkerd2

- Flagger

flux bootstrap

We will install all controllers

- source controller

- kustomize controller

- helm controller

flux bootstrap

We will install all controllers

- notification controller

- (image-automation)

- (image-reflector)

kyverno

Requirement to make Flux secure for multi-tenancy

(Keep Kubernetes safe from Wordpress)

fluxcd/flux2-multi-tenancy

Follow this carefully!

webhook

Receiver config allows Flux to
sync instantly on `git push`

[flux-system-receiver.yaml](#)
[webhook-lb.yaml](#)

[webhook-receivers guide](#)

Wordpress

Another application installed via Helm

bitnami/wordpress

Jenkins

Another application installed via Helm

jenkinsci/helm-charts

Terminal

Another application installed via Helm

okteto/terminal

Linkerd2

Not just another application

(Yes, Linkerd2 does provide Helm charts, but we don't install that way, we used arkade and `linkerd2` cli)

[linkerd getting started](#)

[arkade install linkerd](#)

Flagger

Progressive Delivery with Flux and **Flagger**

Another project in the FluxCD umbrella

Depends on **Linkerd2** (option Istio, AWS App Mesh, nginx…)

Flux2 Kustomize Helm

fluxcd/flux2-kustomize-helm-example

Example how to manage **multiple clusters**

(eg. staging, production)

So Much More

We wanted to show you so much more

- Mozilla SOPS

Secrets Management

mozilla-sops guide

So Much More

We wanted to show you so much more

- image-automation

- image-reflector-controller

Automate image updates to Git

So Much More

We wanted to show you so much more

- **arkade** - opinionated helm packages

Curated Constellations - make your own, or borrow opinions of others :) we show you ours

So Much More

We wanted to show you so much more

- **cert-manager**

Let's Encrypt certificates

cert-manager.io website
cert-manager.io/docs

So Much More

We wanted to show you so
much more

- loft-sh/kiosk

- loft.sh

Manage **multi-tenancy**
another way

So Much More

We wanted to show you so
much more

- **ingress** configuration

(We used [nginx-ingress](#))

So Much More

We wanted to show you so much more

- Rabbit

A **presentation** tool for Rubyist

(neat tortoise/hare icons at the bottom of the slides!)

DEMO NOTES

Follow along at home - gist following these examples

- bit.ly/32rUInK

bit.ly/32rUInK

JIT presentation! Instructions ready by the time you read this

Thanks

Thank You (**Audience**) - Questions at the Flux Pavilion!

Thanks to CNCF, Linux Foundation, Weaveworks

Thanks to KubeCon and CloudNativeCon 2021 **Organizers**

Questions

Visit **Flux Pavilion** - meet us live after - Kingdon and Scott, Weaveworks DX Team

After KCCNC EU 2021? **Slack**

Supported by **Volunteers** around the world

CNCF: #flux and #flagger