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APACHE SLING & FRIENDS TECH MEETUP

2 - 4 SEPTEMBER 2019

Current State of Peregrine-CMS

A Content Management System built on VueJS and Sling

Who we Are

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DEMO

Deploying Peregrine to k8s

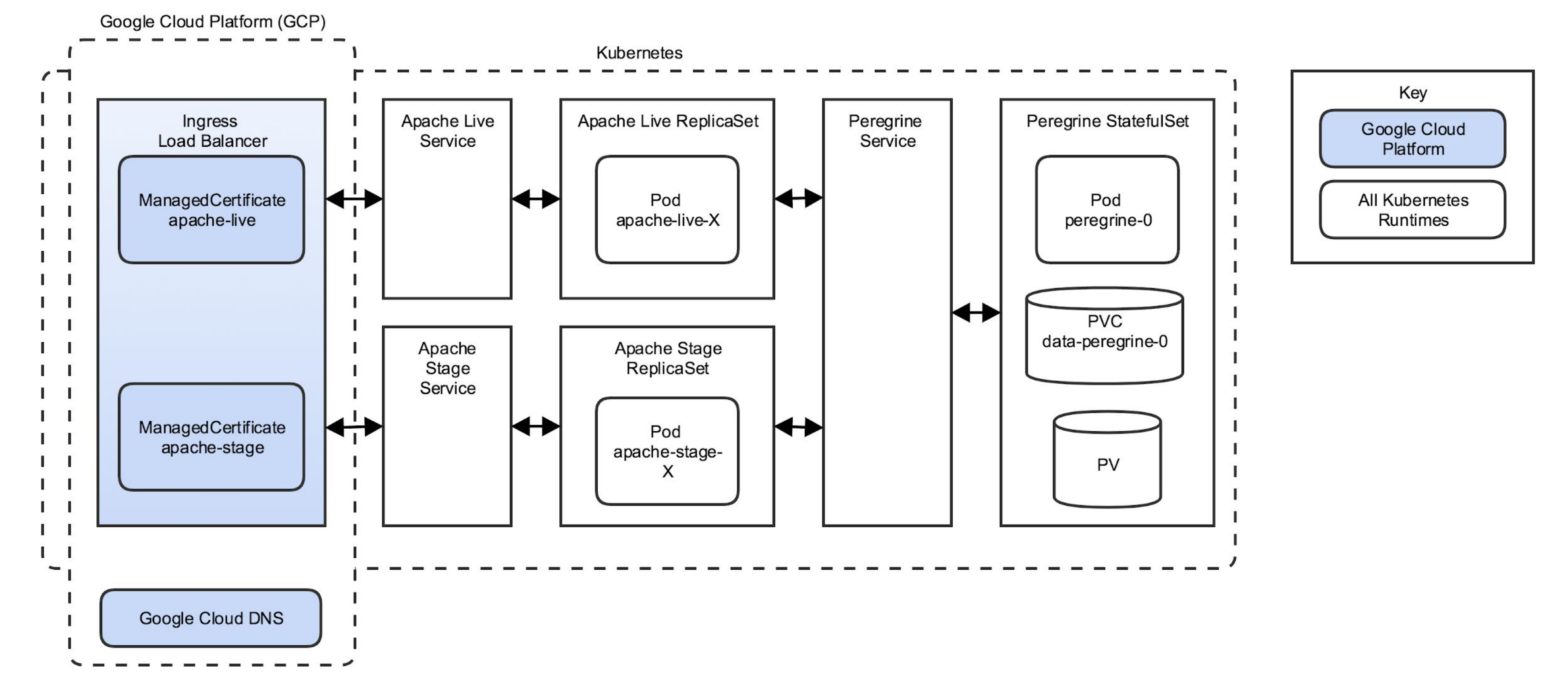
1. Add Peregrine to Helm repository

```
$ helm repo add peregrine https://peregrine-cms.github.io/helmcharts/
$ helm repo update
```

2. Deploy Peregrine to Kubernetes

```
$ helm install --name demo peregrine/peregrine
```

GKE & Peregrine



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LET’S AUTHOR A PAGE

Current State of Peregrine

- Sites are near 100 points in Chrome Audit
- Page transitions on hyperlinks are wicked fast
- The Admin UI is almost as fast :-)
- Almost ready for its 1.0.0 release
- Could use some more documentation

Agenda

- Quick demo
- Why are we developing Peregrine?
- What are our basic principals?
- Who is using Peregrine today?
- Where will Peregrine be in one year?

Agenda

- Quick demo
- **How did we get to that speed?**
- Why are we developing Peregrine?
- What are our basic principals?
- Who is using Peregrine today?
- Where will Peregrine be in one year?

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Page Speed

Page Speed

Can You get There?

Create a sample with the basic technology you'd like to use and evaluate it regarding to speed

Page Speed

Use Available Tools to Measure!

- Chrome Audit
- Lighthouse
- Axe
- Web.Dev
- PageSpeed Insights

Page Speed

- Easy Optimizations
  - Combine & Minimize CSS/JS
  - Inline (critical) CSS/JS
  - Compression
  - Modern Image Formats
  - SSL Session Sharing

Page Speed

Mod PageSpeed

https://developers.google.com/speed/pagespeed/module/

APACHE INCUBATOR

Page Speed

Bootstrap vs Utility based CSS Approach

- Bootstrap does not reach 100 points out of the box
- Utility First CSS approach delivers smaller CSS out of the box and desired page speed
- Utility First CSS is harder to get right
- How much JavaScript is still necessary today?

Page Speed

Page Transition Speed

- Use SPA Concepts
  - Less Data to Transmit
  - Browser has to evaluate less CSS

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Why Peregrine

Why Peregrine

- More influence on all aspects of the CMS we work with
- Enable outside site developers to contribute
- Determine how 'we' should write websites for the future
- Be able to produce an extendable site right out of the gate
- Show how awesome Apache Sling and Jackrabbit Oak are
- Bring Apache Sling to a wider audience

Our Principals

Our Principles

- Be fast
- Be open
- Be inclusive to all
- Build for today, try to keep the future in mind
- Bring back the fun!

Who is Using Peregrine

Who uses Peregrine?

cyber:con

meta:proc

head wire

HOTWAX COMMERCE

weedguide™

Outlook

Outlook

- Continue building the Community
- Focus on Speed, Accessibility, best practices
- Richer, better documentation
- Contribute back to what we use
- UX Improvements
- Make the authoring experience authorable
- Work with the Community on the future of Peregrine

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Thanks To

Thanks To

- Apache Sling
- Apache Jackrabbit Oak
- Composum
- VueJS
- Trumbowyg
- Vue Form Generator
- Swagger (OpenAPI)
- Apache Maven
- WCM.io
- NodeJS
- …

Thanks To

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Summary

Summary

- Page Speed is important! Make it a focus of your next project
- Get in the game, start building smaller sites on Apache Sling
- Join the Peregrine Community!

Start on your Local Computer:

Docker

```
$ docker run -it -p 8080:8080 peregrinecms/peregrine-cms:sling11
```

NPM

```
$ npm install percli -g
$ percli server install
```

Resources & Questions?

peregrine-cms: https://www.peregrine-cms.com

peregrine slack: https://peregrine-cms.slack.com

peregrine git repo: https://github.com/headwirecom/peregrine-cms

mod_pagespeed: https://developers.google.com/speed/pagespeed/module/

web.dev: https://web.dev

pagespeed insights: https://developers.google.com/speed/pagespeed/insights/

axe: https://www.deque.com/axe/

lighthouse: https://www.npmjs.com/package/lighthouse

chrome audit: ctrl-shift-i > audits

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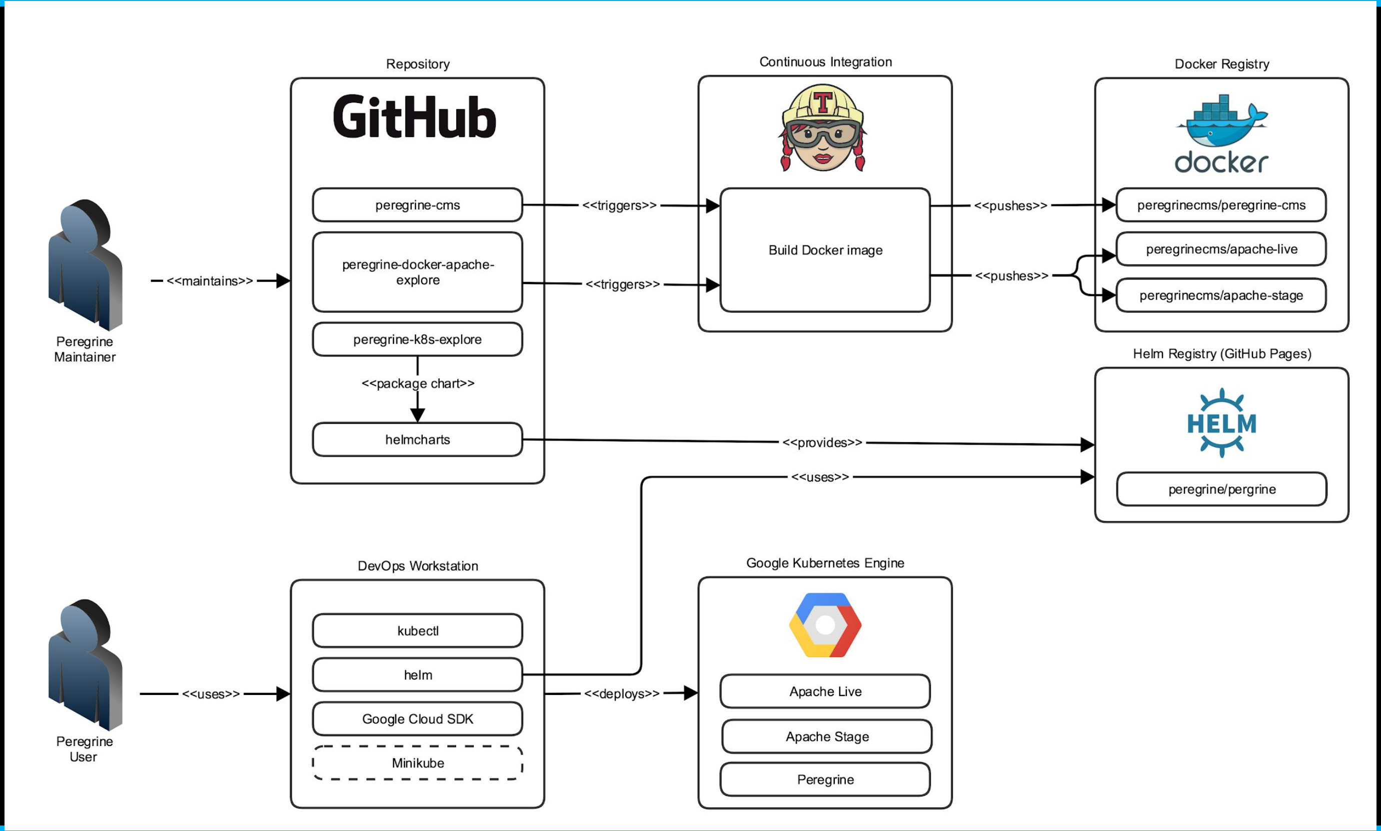
Thank You!

Appendix

Docker and Kubernetes (k8s)

Container Workflows



Repository

GitHub

peregrine-cms

peregrine-docker-apache-explore

peregrine-k8s-explore

<<package chart>>

helmcharts

Continuous Integration

Build Docker image

Docker Registry

docker

peregrinecms/peregrine-cms

peregrinecms/apache-live

peregrinecms/apache-stage

Helm Registry (GitHub Pages)

HELM

peregrine/pergrine

Peregrine Maintainer

<<maintains>>

<<triggers>>

<<triggers>>

<<pushes>>

<<pushes>>

<<provides>>

<<uses>>

Peregrine User

<<uses>>

DevOps Workstation

kubectl

helm

Google Cloud SDK

Minikube

<<deploys>>

Google Kubernetes Engine

Apache Live

Apache Stage

Peregrine

Kubernetes: State-of-the-State

- Supported (tested) Runtimes
  - Minikube
  - Kubeadm (a.k.a bare metal)
  - Google Kubernetes (GKE)
- Future Runtimes
  - Azure Kubernetes Service (AKS)
- Upcoming Changes
  - Segment NodeStore