

Fishfingers and Custard: An OpenStack and K8s Story

Kendall Nelson

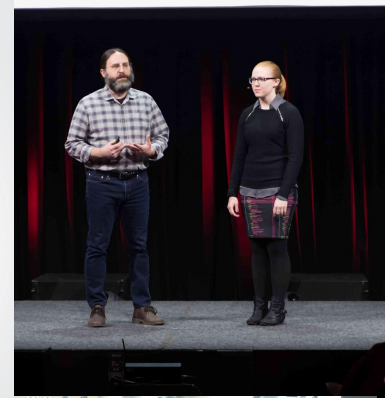
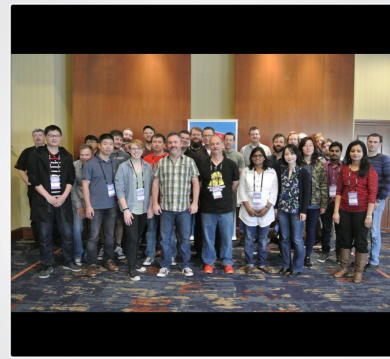
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Kendall Nelson

- Open Infrastructure Foundation
- Open Source Contributor
 - OpenStack- 2015
 - Kubernetes- 2019
- First PyCon!
- Doctor Who, Harry Potter, Travel (ha) & Running



Kubernetes Overview

- . Open-source system for automating deployment, scaling, and management of containerized applications
- . Go
- . v 1.22 (current release)
- . Started in 2014
 - . Given to the Cloud Native Computing Foundation by Google
 - . Graduated Project
- . kubernetes.io

OpenStack Overview

- . Open Source Cloud Operating System
- . Python
- . Xena (current release)
- . Started in 2010
 - . Joint project between Rackspace & Nasa
 - . OpenStack Foundation (now Open Infrastructure Foundation) formed in 2012
- . openstack.org



Containers or Virtual Machines?

Simply put, it depends on the use case which you want users to be putting their workloads in/on.

Fishfingers and Custard?
Milk and Cookies?
OpenStack and Kubernetes?





OpenStack in a Container

Kolla and OpenStack-Helm allow you to containerize the OpenStack control plane to ease deployment and management.

Containers on OpenStack



Kubernetes is designed to run within a cloud, and to expect that cloud to provide multi-tenant isolation between different Kubernetes clusters.

OpenStack can supply this!

Cloud Provider OpenStack Plugins with Kubernetes



OpenStack services like **Cinder** and **Manila** can be run standalone- meaning they don't need Nova to provide storage solutions to containers.

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OpenStack in a Container

SK Telecom

CERN



Kubernetes on OpenStack

Vexxhost



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