Fishfingers and Custard: An OpenStack and K8s Story

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

Containers or Virtual Machines?
Fishfingers and Custard?
Milk and Cookies?
OpenStack and Kubernetes?
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!
OpenStack services like Cinder and Manila can be run standalone—meaning they don’t need Nova to provide storage solutions to containers.
Fishfingers and Custard.
Milk and Cookies.
OpenStack and Kubernetes.
OpenStack in a Container

SK Telecom

CERN
Kubernetes on OpenStack
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