K8s or Die!
You must do Kubernetes. Or should you? If so when, where, why? How?!

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Computing in the modern age

Virtual Machines

Traditional operations
KVM

Process Containers

Container Coordinator
Docker / RunC / Rkt

Host Linux Filesystem
What is Kubernetes
kubernetes is container coordination
compute network storage} for **docker-style** containers
rollout / rollback
scale up / scale back
service discovery
load balancing
self healing
EasyRSA
Provides PKI / CA for TLS certs to all components

ETCD
Distributed data store / backend for Kubernetes

K8S Master
API server, scheduler, controller manager

K8S Worker
Kubelet, SDN, Kube Proxy, Docker
Converged Kubernetes
What is OpenStack
Converged OpenStack Architecture
kubernetes + openstack
kubernetes + openstack
openstack between kubernetes
kubernetes on openstack

heat
magnum

kubernetes

charms
kubeadm
kargo

openstack
kubernetes on bare metal

kubernetes

charms

kubeadm
kubernetes + openstack
stateless + stateful
¿Questions?
turtles, all the way down
Managing Applications and Operations

- Kubernetes
- OpenStack
- LXD
Thank you!

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https://kubernetes.io/docs
https://conjure-up.io