

# Enterprise Kubernetes

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# Agenda

- Latest news from k8s
- News from CoreOS
- Docker in enterprise

### K8s - boring numbers?

~ 4k Commits in 1.5

Top 0.01% of all Github
Projects

+ 25% unique contributors

3500+ External
Projects Based
on K8s

### K8s - contributing companies

























## Most noticable news in Kubernetes (since 1.5)

Simplified setup

Package manager for Kubernetes

Further development

### Simplified setup

**Problem:** Difficuilt setup k8s cluster

**Solution:** kubeadm!

Network setup complete.

```
master# apt-get install -y kubelet kubeadm kubectl kubernetes-cni
master# kubeadm init
Kubernetes master initialized successfully!
You can now join any number of nodes by running the following command:
kubeadm join --token 477be2f.b1356ae45345c 10.140.0.3

node01# apt-get install -y kubelet kubeadm kubectl kubernetes-cni
node01# kubeadm join --token 477be2f.b1356ae45345c 10.140.0.3
Node join complete.

master# kubectl apply -f https://git.io/weave-kube
```

### Simplified setup: Federation Edition

**Problem:** Setup kubernetes cluster federation is complicated

**Solution:** kubefed!

```
\begin{tabular}{ll} $dcl$ & kubefed init fellowship $--host-cluster-context=rivendell $--dns-zone="example.com"$ \\ Federation "Rivendell" created. \end{tabular}
```

```
dcl# kubectl config use-context fellowship
switched to context "Fellowship"
```

```
dcl# kubefed join gondor --host-cluster-context=fellowship
Cluster "Gondor" joined to federation "Rivendell"
```

## Simplified deployment on k8s cluster

Helm - The Package Manager for Kubernetes

myhost# brew install kubernetes-helm
myhost# helm install sapho



### What's next in Kubernetes?

#### Nothing!\*

### Bringing many features from alpha to beta & GA including:

Federated deployments and daemon sets Improved RBAC StatefulSet upgrades

#### Improved scaling & etcd 3

Easy cluster setup for high availability configuration

Integrated metrics API

<sup>\*</sup> for large values of "Nothing"

### News from CoreOS

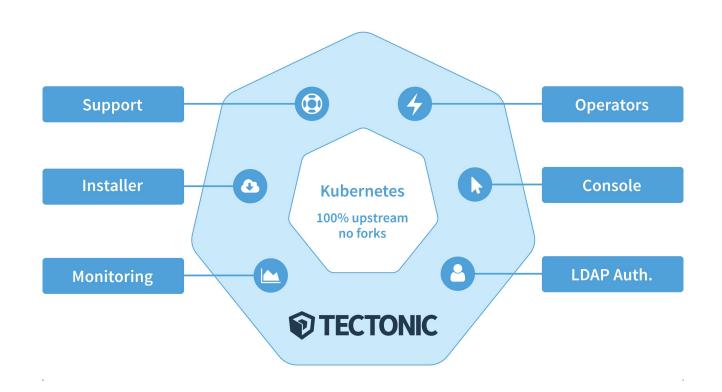
CoreOS Linux is now Container Linux

 Tectonic will be major platform for running containerized infrastructure

• ... and it's free (up to 10 nodes)



## Containers in Enterprise



# Thank you!

... and BTW - I am hiring!

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