

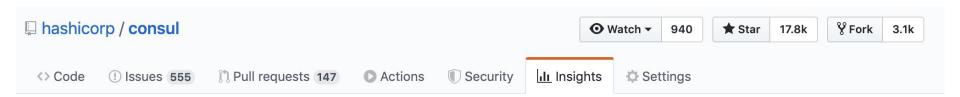
Connecting and Migrating Applications with Consul Service Mesh

Luke Kysow

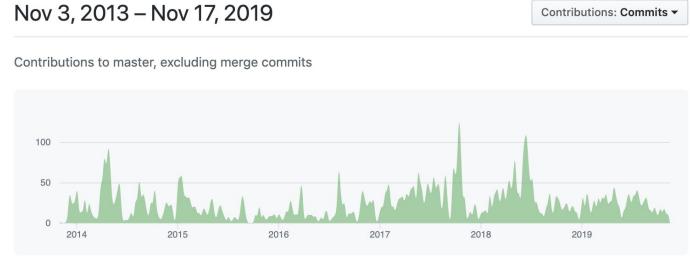
@lkysow

Consul Engineer at HashiCorp











Consul Service Mesh



All traffic is mTLS encrypted / SPIFFE identity

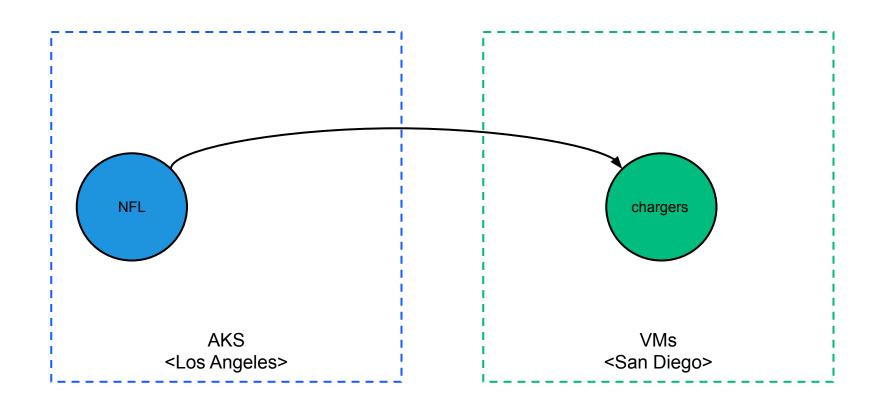


Connect Kube clusters, VMs, bare metal

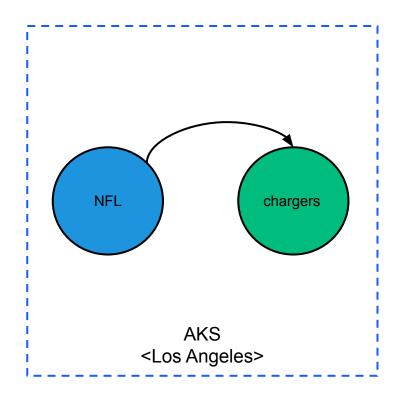
Layer 7 Traffic Management

Control traffic via config





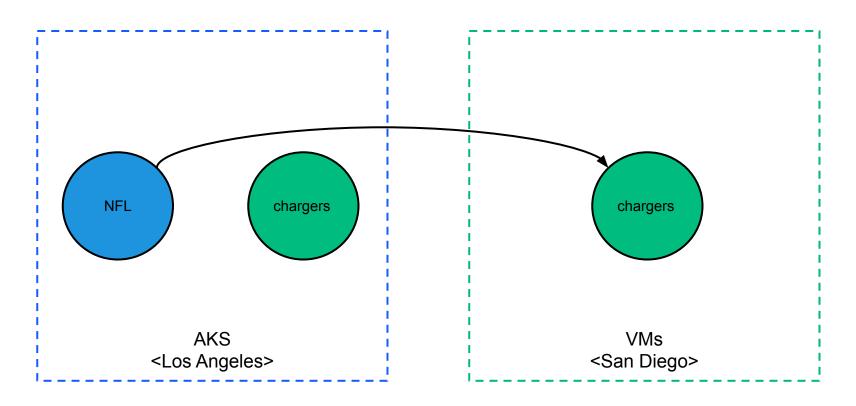




VMs <San Diego>

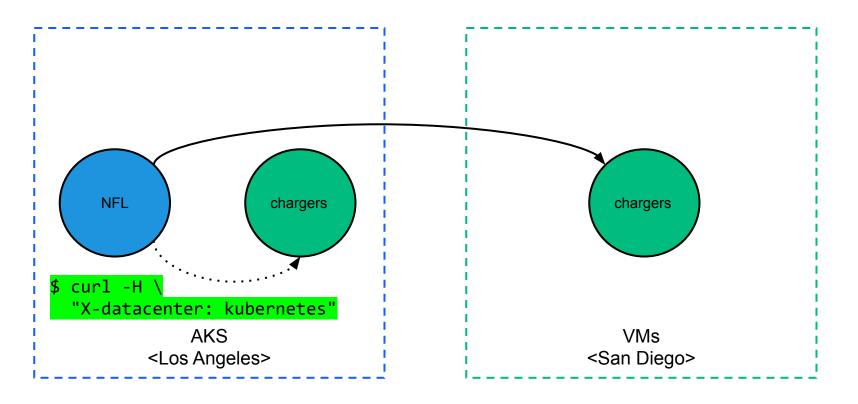
例

Step 1 - Deploy to Kubernetes



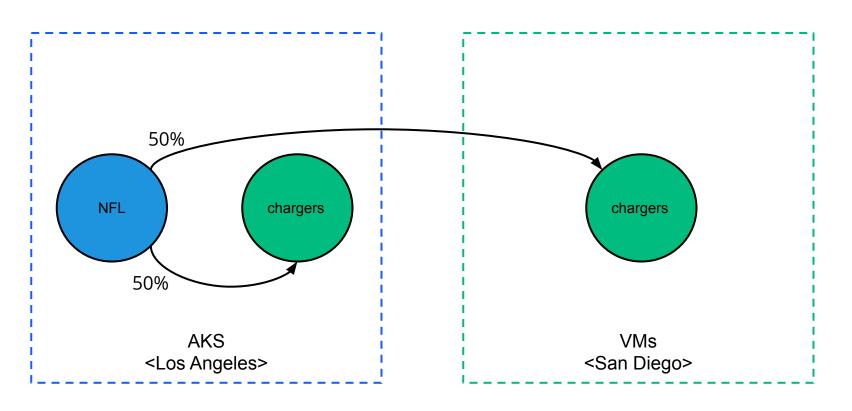
Step 2 - Test that routing works





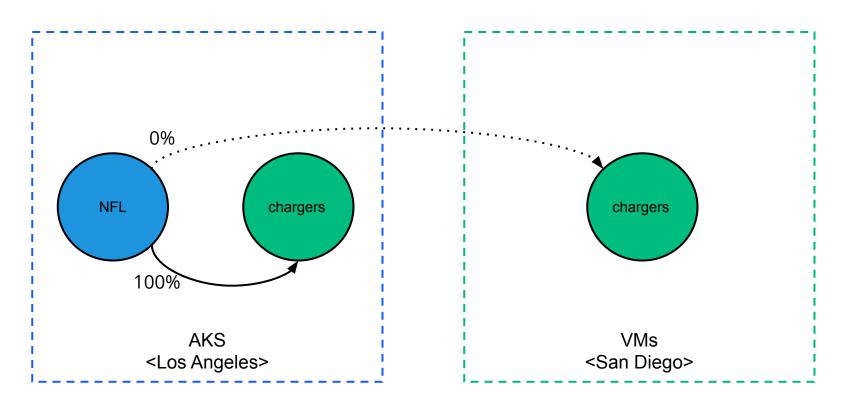
Step 3 - Split traffic





Step 4 - Fully switch over

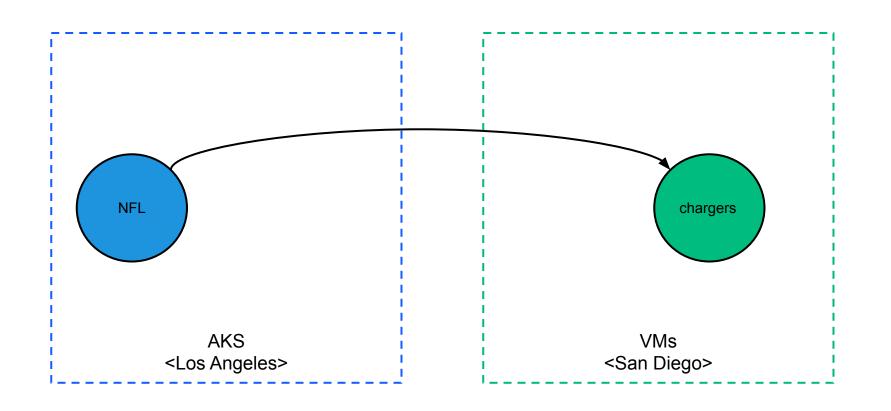




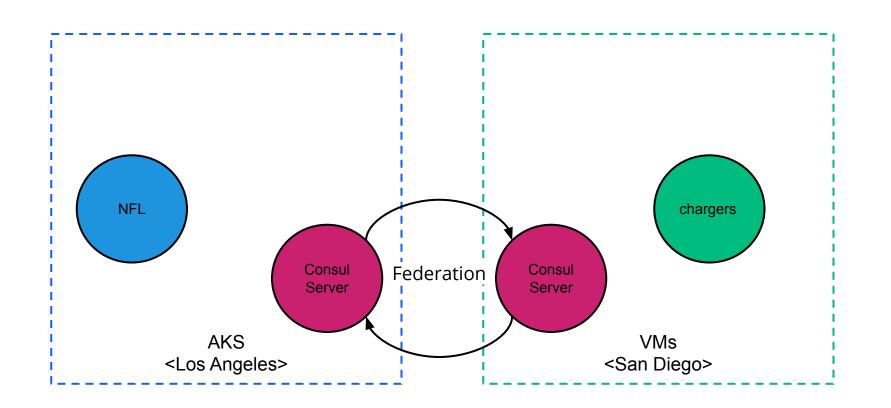


Demo Time!

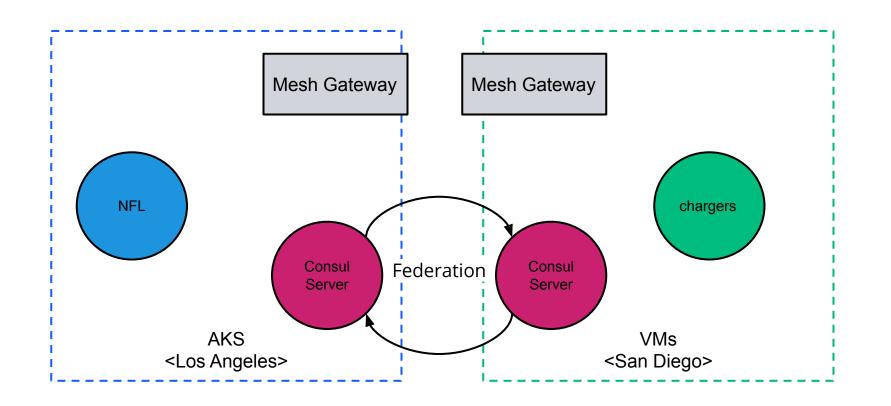




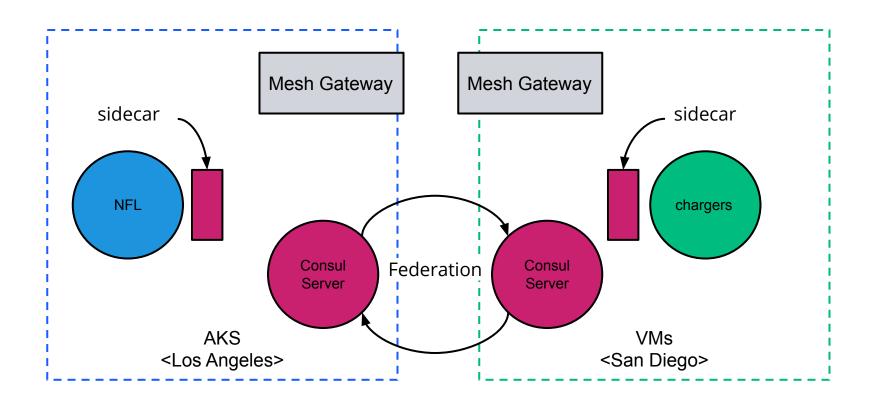




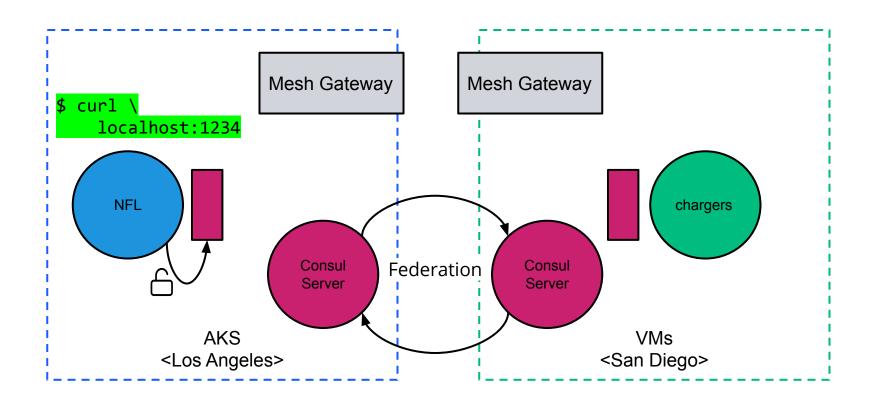




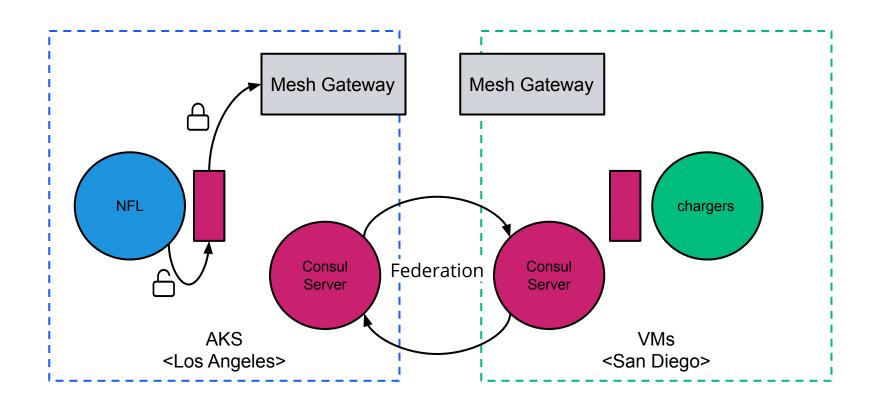




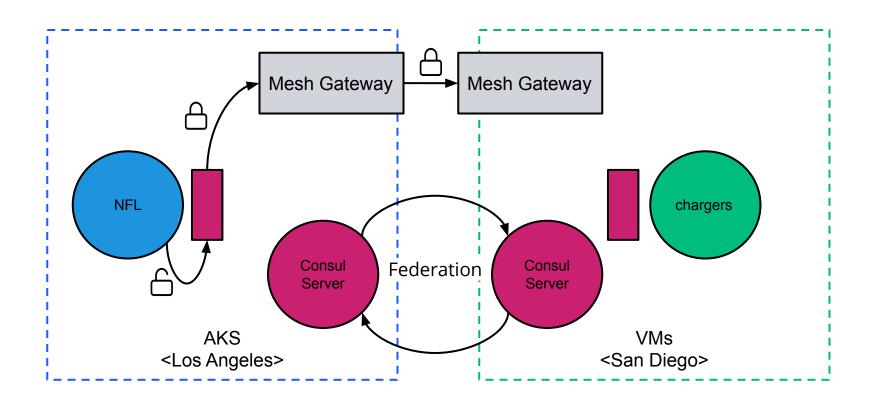




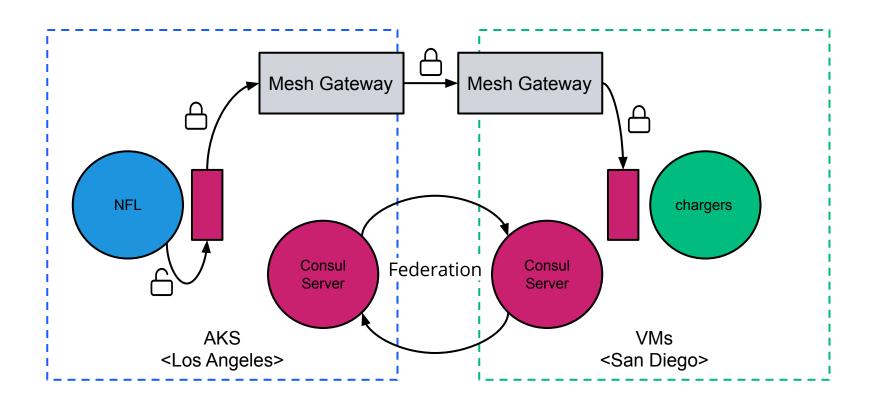




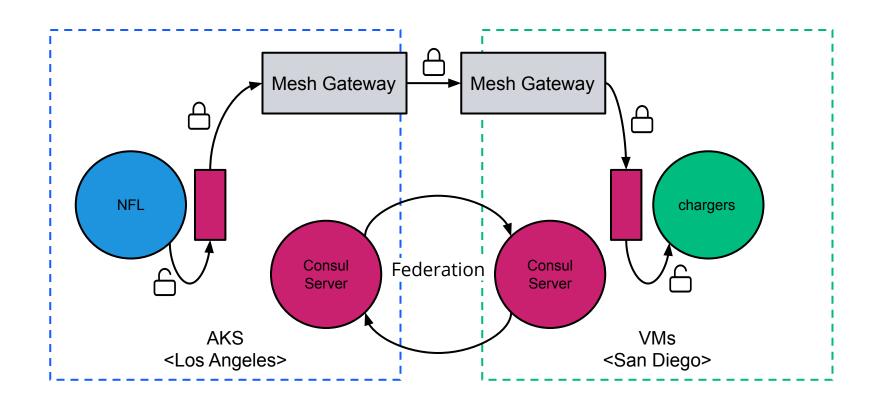


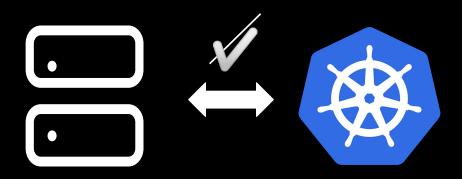


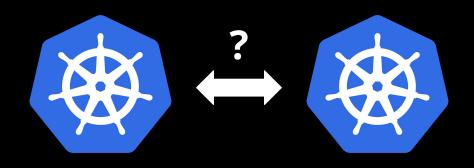












Helm Install



```
TERMINAL
$ kubectl config use-context london
$ helm install ./consul-helm --name=consul
```



Not Covered



\$ helm install --name consul



Integration with Prometheus, Datadog, etc.

Intentions

\$ consul intention create -allow nfl chargers

External Certificate Authorities

E.g. HashiCorp Vault, AWS PCA



Thank You!

@lkysow