

Keystone Federated Swift: Getting the Most Out of your Object Storage in a Federated Environment

Matthew Treinish
Developer Advocate - IBM
mtreinish@kortar.org
mtreinish on Freenode

Matthew Oliver
Senior Software Engineer - SUSE
matt@oliver.net.au
mattoliverau on Freenode

May 22, 2018

<https://github.com/mtreinish/swift-keystone>

Why Keystone Federation?

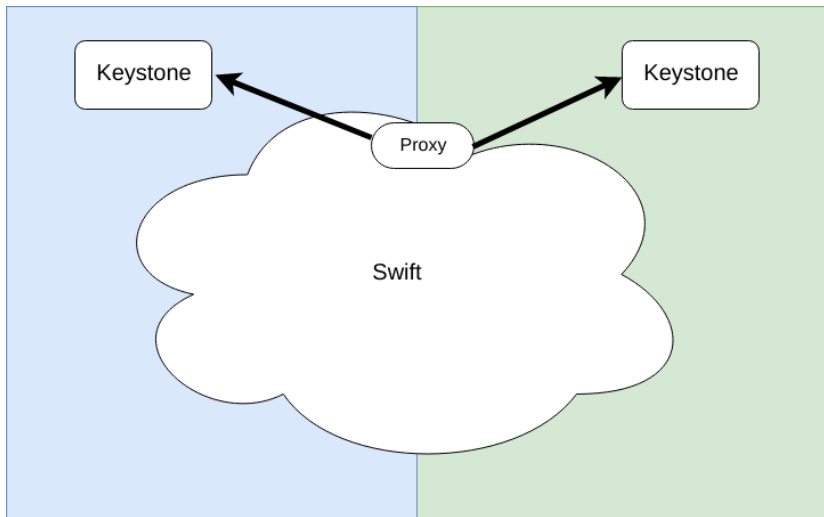
- ▶ Enable sharing of resources between multiple deployments

How it works

TODO: find diagram for this

Keystone with Swift

False Federation



Pros/Cons of False Federation

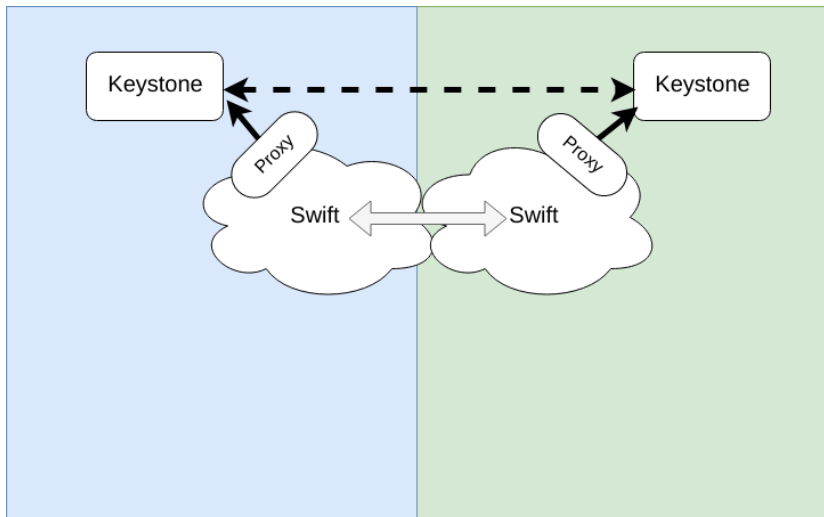
Advantages:

- ▶ Simple to setup

Disadvantages:

- ▶ Duplicate Identity with no sharing

Separate Swift Clusters



Pros/Cons of Separate Clusters

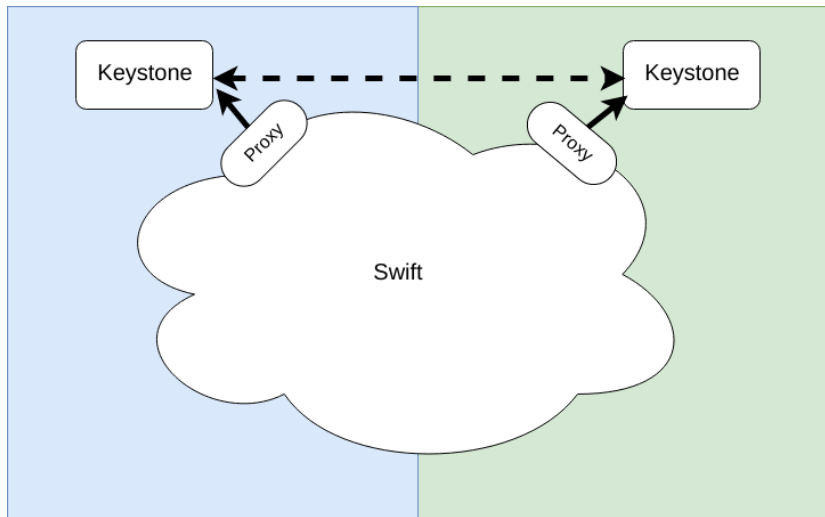
Advantages:

- ▶ Data isolation

Disadvantages:

- ▶ Complexity

Global Swift Cluster



Pros/Cons of Separate Clusters

Advantages:

- ▶ Only maintain single swift cluster

Disadvantages:

- ▶ Data shared

Where to get more information

- ▶ Blog Post Series: <https://oliver.net.au/?p=335>
- ▶ openstack-dev ML: openstack-dev@lists.openstack.org
- ▶ Details on Keystone Federation:
<http://www.gazlene.net/demystifying-keystone-federation.html>
- ▶ These Slides: <https://github.com/mtreinish/swift-keystone>