Working with the Swift Object Store

Andrew Mallett

LINUX AUTHOR AND TRAINER

@theurbanpenguin   www.theurbanpenguin.com

Objectives

Identify Swift Services
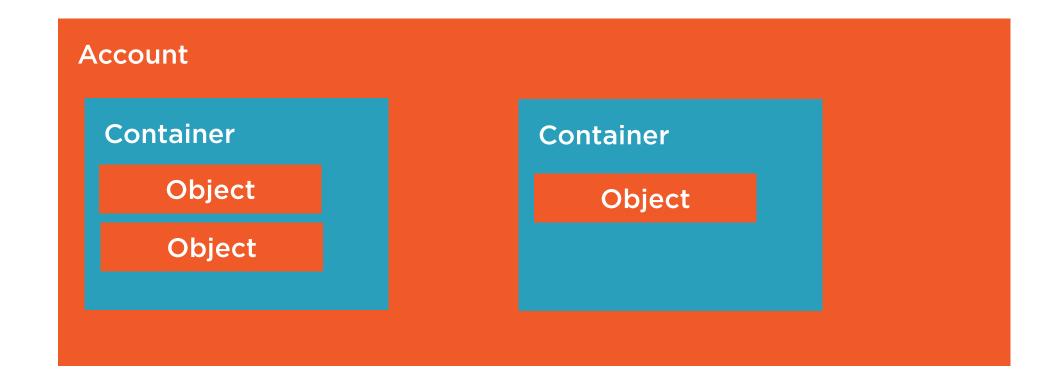
Swift Hierarchy

Using Swift

Expiring Objects

```
# systemctl | grep swift
```

Swift Services

Swift is the OpenStack object store. This can be used to store Cinder backups or simply files to be distributed to Virtual Machine Instances.

```
# swift stat
```

Listing Swift Objects

Using the swift stat command, the containers and objects for the current account will be listed

Investigate Swift Services and Objects

Swift

Swift can act as a configuration store. We may need a shared configuration file to be stored in Swift and downloaded to instances as required.

```
# swift stat

# swift upload hosts /etc/hosts

# swift stat

# swift list hosts

# swift stat hosts etc/hosts
```

Uploading Content

We can upload to an existing container or create a new container. The leading / is removed from the path as files are uploaded to containers.

Upload Swift Content

Swift Client

If you want to download content to a Virtual Machine Instance then the swift client will be required: python-swiftclient

```
# swift download hosts
```

Download Content

Will download content to the PackStack host. The container contents will download to the current working directory.

```
# swift post hosts -r "demo:demo"

# swift post hosts -w "demo:demo"

# swift stat hosts
```

Manage ACLs

Swift post can be used to set the Access Control List to a container. The option -r is the read ACL -w is the write ACL.

Manage ACL and Downlaods

Expire Objects

Objects can be automatically deleted at a specific date and time or after a specified number of seconds

```
# date

# date +%s

# date --date '30 days'

# date --date '30 days' +%s

# swift post hosts etc/hosts -H "X-Delete-At:1495466045"
```

Unix Time

To delete at a specific data and time we use the Unix Time Epoch

```
# swift post hosts etc/hosts -H "X-Delete-After:86400"
```

Delete After Seconds

We can also delete after a given number of seconds.

swift delete hosts

Delete Container

.

Expire and Delete

Summary

Swift Services

Hierarchy: Accounts, Containers, Objects

Upload Content

Access Control Lists

Expiring Content