OpenStack: Managing Identities and Objects

IDENTITY AND OBJECT MANAGEMENT IN OPENSTACK

Andrew Mallett
LINUX AUTHOR AND TRAINER

@theurbanpenguin www.theurbanpenguin.com

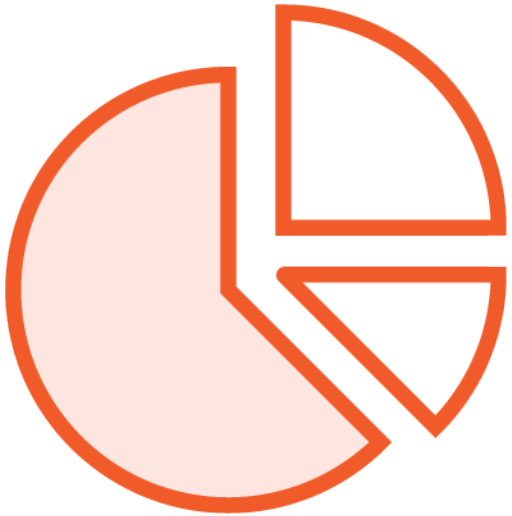
Objectives

- Introduce Course Contents
- Keystone - Identity Service
- Cinder - Volume Service
- Glance - Image Service
- Swift - Object Storage

From the Exam Requirements

Identity Management - Keystone (12%)

- Manage keystone catalog services and endpoints
- Manage/Create domains, groups, projects, users and roles
- Manage the Identity service
- Verify the Identity Service



Block Storage - Cinder (10%)

- Manage volumes
- Create volume groups for storage
- Create volume and mount to instance
- Manage quotas
- Manage backups
- Manage snapshots
- Manage encryption
- Setup storage pools
- Monitor capacity
- Analyze volume size reports

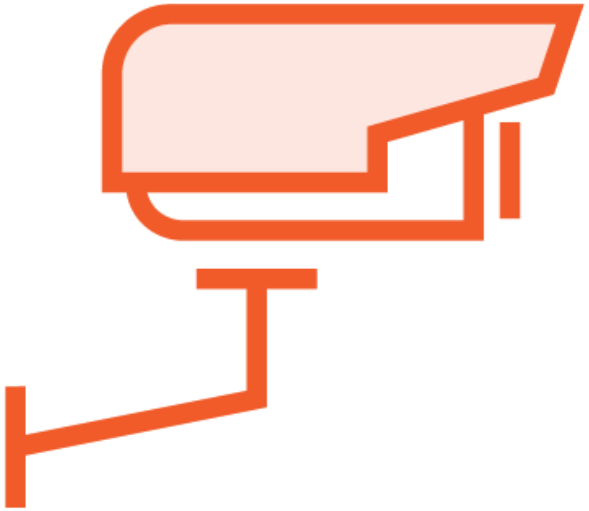


Image Management - Glance (10%)

- Deploy a new image to instance
- Manage image types and back-ends
- Manage images
- Verify image service

Object Storage - Swift (10%)

- Manage access to object store
- Manage expiring objects
- Manage policies
- Monitor space
- Verify object store
- Manage permissions on containers

OpenStack: Installing the Lab Environment

OpenStack: Getting to Know OpenStack and the COA

Lab Environment (Single Node)

Virtualization Host
CentOS 7.2
KVM
192.168.56.1

Virtual Machine

Packstack

Centos 7
192.168.56.5

Highlights

Convert CLI and Horizon to use Keystone V3 API

Create your own images

Snapshot volumes

Use Swift to store central configuration files

Next up: Using Identity Management with Keystone