OpenStack Intermediate Training

Day - 1	Day - 2
Introduction to Openstack	OpenStack Demonstrations
 Introduction and Welcome 	 OpenStack Hypervisors
 Next Gen OpenStack Data Centers 	 Choosing your Distribution platform
 Understand the components that make up the cloud 	 Creating your Own OpenStack with DevStack
Architecture components of OpenStack	• Dashboard
 What OpenStack is not? (The History) 	 Verify operation of the Dashboard
Architecture Workflow	 Manage/Create projects, users, and roles
o Nova - Compute	 Manage Keystone catalogue services and endpoints
 Swift - Storage 	 Create roles and rules for the environment
	 Verify operation of the Identity service
	 Live Lab: Creating Projects, Users, and Roles

Day - 3	Day - 4
Dashboard	Block Storage
 Verify operation of the Dashboard 	Block Storage - Cinder Overview
• Compute	Create volume group for block storage
 Nova Compute Components and OpenStack Terms 	o Manage volume
 Verify operation of Compute services 	Create a new Block Storage Volume and mount it to a Nova Instance
 Manage Nova user keypairs 	 Manage quotas
 Manage Flavors 	 Snapshot volume
 Manage quotas 	 Manage volumes backups
 Manage project security group rules 	 Manage volumes encryption
o Launch a new Instance	 Live Lab: Create a new Block Storage Volume and mount it to a Nova Instance
Assign security group to Instance	 Live Lab: Create a Volume Snapshot and Backup
 Configure an Instance with a Floating IP address 	 Live Lab: Create an Encrypted Volume
Access an Instance using a keypair	Object Storage
o Shutdown an Instance	
o Terminate Instance	Swift - Object Storage Overview The Ring
 Manage instance snapshots 	The Ring Assount Brown Object and Container Servers
 Live Lab: Managing Flavors and Quotas 	Account, Proxy, Object, and Container Servers Bonlingtion
 Live Lab: Launching Instances from the CLI 	Replication Manage assess to chiest storage
 Live Lab: Launching Instances from Horizon 	Manage access to object storage
 Live Lab: Configure Access and Security for Instances 	Manage expiring objects Live Lab: Set Expire Times on Objects
	 Live Lab: Set Expire Times on Objects