

Certified OpenStack Administrator

Duration: 4 Days (8Hours per day)

Lab Architecture: Single Node OpenStack Cluster

Module 1 – Introduction to OpenStack

OpenStack Overview and History
OpenStack Infrastructure-as-a-Service Cloud User Perspective
High level Overview of OpenStack Architecture
Architecting & Implementing OpenStack Deployment

Module 2 – Horizon Dashboard and OpenStackClient CLI

OpenStack Dashboard and Command Line Clients
Lab: Using Horizon
Lab: Using OpenStack Client

Module 3 – Keystone – Identity Management

Understanding Keystone
Lab: Using Keystone with Horizon Dashboard
Lab: Keystone on Command Line

Module 4 – Glance – Image Management

Inside of Glance
Lab: Managing Images in Horizon Dashboard
Lab: Managing Images on Command Line

Module 5 – Nova – Compute Service

Compute Service Introduction
Virtual Server Instances – A Deep Dive
Lab: Nova in Horizon Dashboard
Lab: Nova on Command Line

Module 6 – Cinder – Block Storage

Understanding Block Storage
Lab: Volume Management in Dashboard
Lab: Managing Volumes on Command Line

Module 7 – Neutron - Networking

OpenStack Network Service
Virtual Network Resources
Lab: Network Management in Horizon
Lab: CLI of OpenStack Networking

Module 8 – Swift – Object Storage

Understanding Object Storage Service
Lab: Swift and Horizon
Lab: Managing Object Storage in Command Line Environment

Module 9 – Heat - Orchestration

Heat – OpenStack Orchestration Service

Lab: Dashboard Interface to Heat

Lab: Heat on Command Line

Module 10 – Troubleshooting

Troubleshooting Overview like Analyze Log Files, Manage OpenStack Services, Analyze Storage Status, Analyze Network Status