

OPENSTACK TRAINING COURSE CONTENT

Introduction to Cloud Computing and OpenStack

- ✚ Fundamentals of Cloud Computing Different types of cloud
- ✚ Different types of cloud services
- ✚ What is Open Source?
- ✚ Comparing OpenStack with other Clouds
- ✚ OpenStack Architecture and terminology.

Deploying OpenStack

- ✚ Requirements, Capacity Planning.
- ✚ Open vS witch Configuration
- ✚ Deploying Openstack
- ✚ Adding a Compute Node

Horizon Web Interface

- ✚ Creating a Project
- ✚ Creating a User
- ✚ Managing Flavors in Horizon
- ✚ Launching an Instance
- ✚ Manage compute instance actions (e.g. launch, shutdown, terminate)
- ✚ Configure an Instance with a Floating IP address
- ✚ Manage project security group rules
- ✚ Assign security group to Instance
- ✚ Assign floating IP address to Instance
- ✚ Detach floating IP address from Instance
- ✚ Manage Nova user keypairs
- ✚ Manage Nova compute Controller Services
- ✚ Get Nova stats (hosts, services, tenants)
- ✚ Verify operation of the Compute service

Managing Rabbit MQ Messenger Broker

- ✚ Verifying and managing the message broker installation.
- ✚ What is Rabbit MQ Messenger Broker
- ✚ Understanding the workflow
- ✚ Troubleshooting Rabbit MQ Message Broker

Using Keystone Identity Service

- ✚ Verifying the Keystone Identity Service
- ✚ Adding services to the keystone service catalog
- ✚ Creating and Managing Users with Keystone commands
- ✚ Defining Roles and assigning roles to user
- ✚ Troubleshooting Keystone

Swift Object Storage Service

- ✚ Manage access to object storage
- ✚ Manage expiring objects
- ✚ Manage storage policies
- ✚ Monitor space available for object store
- ✚ Verify operation of Object Storage
- ✚ Manage permissions on a container in object storage

Glance Image Service

- ✚ Verifying the Glance Image Service
- ✚ Storing Images
- ✚ Building and Sealing an Image
- ✚ Using glance commands
- ✚ Using Swift as backend Store for Glance

Cinder Block Storage Service

- ✚ Block Storage Services (Four services are collectively called Block storage or Cinder)
- ✚ Block Storage supported drivers
- ✚ Verifying the Cinder
- ✚ Creating and Managing cinder volumes by command line.

Neutron Networking Service

- ✚ Verifying the Neutron Service
- ✚ Configuring Networking for a Tenant via Command line
- ✚ Neutron Workflow
- ✚ Troubleshooting the Neutron networking service

Nova Compute and Controller

- ✚ What is Nova?
- ✚ Overcommitting Nova Resources
- ✚ Verifying the Nova services
- ✚ Launching an Instance via nova command line
- ✚ Nova workflow

- ✦ Managing a nova compute node
- ✦ How to add a new Nova compute node

The ceilometer Telemetry Service

- ✦ Basics and Concepts
- ✦ Verifying the ceilometer
- ✦ Data Gathering

Heat Orchestration

- ✦ What is Heat Orchestration Service
- ✦ Configuring the Heat Orchestration Service
- ✦ Launching s Stack

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