



Red Hat OpenStack Administration III

Training Calendar

Date	Training Time	Location
18 March 2019	1 Day	Bilginç IT Academy
01 April 2019	1 Day	Bilginç IT Academy

Training Details

Training Time	:	1 Day
Capacity	:	12
Prerequisites	:	There are no prerequisites for this course.

About Training

About Exam

This course is part of the emerging technology series of courses from Red Hat. While Red Hat® OpenStack Administration (CL210) covers scaled out Nova compute nodes; this course takes scalability to the next level by creating a separate storage node and a separate network node to provide better scalability and separation between functions. This course is designed for storage administrators, network administrators, or cloud operators who are intending to scale out an OpenStack environment or integrate their network or storage into an OpenStack environment. You will learn about the architecture and installation of Red Hat Ceph Storage as well as the integration of Red Hat Ceph Storage into Red Hat Enterprise Linux OpenStack Platform, covering integration with the Glance image service, integration with the Cinder block storage service, and replacing the Swift object storage service. This course also covers networking in the OpenStack environment, including creation of a separate network node, coverage of VLAN, VXLAN, and GRE, networks, subnets, floating IP address and other software-defined network (SDN) items, as well as distributed virtual routing (DVR).

What You'll Learn

- Install Red Hat Ceph Storage on a separate storage node
- Integrate Ceph with OpenStack
- Create a separate network node
- Use Neutron Networking from OpenStack to create software-defined Networks (SDN)
- Create networks, subnets, and floating IP addresses for OpenStack
- Use VLAN, VXLAN, and GRE tunnels in OpenStack

Who Should Attend

Experienced Linux system administrators responsible for managing OpenStack environments who are interested in learning how to configure a scalable and distributed storage as a storage backend for OpenStack and use the advanced features offered by OpenStack Neutron.

Exam Info

- Introduce Red Hat Ceph Storage architecture, components, and attributes.
- Describe the components and features of Red Hat Ceph Storage.
- Create snapshots and clones for Red Hat Ceph Storage.
- Manage snapshots and clones of a Ceph Block Device (RBD).
- Integrate Ceph with the Glance image service, the Cinder block storage service, and the Nova compute service.
- Explain standard networking concepts and OpenStack Neutron networking concepts and services.
- Install and manage virtual network bridges.
- Create and deploy virtual network devices.
- Manage network interfaces manually (using the ip command) and persistently.
- Verify and manage the configuration of Neutron networking service.
- Provision project networks using VXLAN tunnels, GRE tunnels, and VLANs.
- Implement LbaaS.
- Diagnose and troubleshoot issues with the Neutron networking service.
- Review tasks from the Red Hat OpenStack III course.