

---

## Red Hat OpenStack Administration III

**Duration: 4 Days**    **Course Code: CL310**

---

### Overview:

Learn to deploy, manage, and configure Red Hat Ceph Storage and Red Hat Enterprise Linux OpenStack Platform. The Red Hat OpenStack Administration III (CL310) course provides extensive hands-on training for experienced system administrators in how to use the distributed storage features of Red Hat® Ceph Storage and the networking capabilities of OpenStack® Neutron. Students will set up a Ceph environment and its configuration as a back end for OpenStack, and configure and use the advanced features of OpenStack Neutron. The OpenStack Word Mark and OpenStack Logo are either registered trademarks / service marks or trademarks / service marks of the OpenStack Foundation, in the United States and other countries and are used with the OpenStack Foundation's permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation or the OpenStack community. Students will set up a Ceph environment and its configuration as a back end for OpenStack, and configure and use the advanced features of OpenStack Neutron.

---

### Target Audience:

Experienced Linux® system administrators responsible for managing OpenStack environments who want to learn: To configure scalable and distributed storage as a storage back end for OpenStack. The advanced features offered by OpenStack Neutron.

---

### Objectives:

- Deploy Red Hat Ceph Storage
  - Manage snapshots in Red Hat Ceph Storage
  - Access Ceph storage through Ceph block device (RBD) and Ceph object gateway (RADOSGW)
  - Configure Red Hat Ceph Storage as a storage back end for OpenStack Services
  - Manage networks based on VXLAN, VLAN and GRE
  - Deploy and using load-balancer-as-a-service (LBaaS) in OpenStack Neutron
  - Troubleshoot Neutron issues
- 

### Prerequisites:

- Red Hat Certified Engineer (RHCE) certification or equivalent experience
  - Red Hat Certified System Administrator in Red Hat OpenStack (EX210) certification or equivalent experience
  - Have taken Red Hat OpenStack Administration (CL210) course
-

## Content:

Introduction to Red Hat Ceph Storage	Introduce networking fundamentals	Provision project networks
Introduce Red Hat Ceph Storage architecture, components, and attributes.	Explain standard networking concepts and OpenStack Neutron networking concepts and services.	Provision project networks using VXLAN tunnels, GRE tunnels, and VLANs.
Describe Red Hat Ceph Storage components and features	Implement virtual bridging	Implement load-balancer-as-a-service (LBaaS)
Describe the components and features of Red Hat Ceph Storage.	Install and manage virtual network bridges.	Implement LBaaS.
Deploy and access Red Hat Ceph Storage	Implement virtual network devices	Troubleshoot Neutron networking services
Create snapshots and clones for Red Hat Ceph Storage.	Create and deploy virtual network devices.	Diagnose and troubleshoot issues with the Neutron networking service.
Create snapshots and clones	Implement network namespaces	Comprehensive Review
Manage snapshots and clones of a Ceph Block Device (RBD).	Manage network interfaces manually (using the ip command) and persistently.	Review tasks from the Red Hat OpenStack III course.
Integrate Ceph with the Glance Image service	Manage neutron services	Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves.
Integrate Ceph with the Glance image service, the Cinder block storage service, and the Nova compute service.	Verify and manage the configuration of Neutron networking service.	

---

## Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

[training@globalknowledge.ae](mailto:training@globalknowledge.ae)

[www.globalknowledge.ae](http://www.globalknowledge.ae)

Global Knowledge, Dubai Knowledge Village, Block 2A, First Floor, Office F68, Dubai, UAE