



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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# Red Hat OpenStack Administration III

<b>CODE:</b>	<b>DURÉE:</b>	<b>PRIX H.T.:</b>
REH_CL310	4 Jours	€2,800.00

## Description

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.

## Objectifs

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.

## Course content summary

- 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

Not sure if you have the correct skill-set knowledge? Find out by passing the [online skills assessment](#).

## 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

## Prérequis

- [Red Hat Certified Engineer \(RHCE®\)](#) certification or equivalent experience
- [Red Hat Certified System Administrator in Red Hat OpenStack](#) certification or equivalent experience
- Have taken [Red Hat OpenStack Administration \(CL210\)](#) course

## Programme

Introduction to Red Hat Ceph Storage

Introduce Red Hat Ceph Storage architecture, components, and attributes.

Describe Red Hat Ceph Storage components and features

Describe the components and features of Red Hat Ceph Storage.

Deploy and access Red Hat Ceph Storage

Create snapshots and clones for Red Hat Ceph Storage.

Create snapshots and clones

Manage snapshots and clones of a Ceph Block Device (RBD).

Ceph with the Glance Image service

Integrate Ceph with the OpenStack Glance Image service to store OpenStack images in Ceph.

Ceph with the Cinder Block Storage service

Integrate Ceph with the OpenStack Cinder Block Storage service to provide OpenStack volumes in Ceph.

Ceph with the Nova compute service

Integrate Ceph with the OpenStack Nova compute service to store instance data in Ceph.

Introduce networking fundamentals

Review networking concepts and deploy OpenStack with a separate Neutron networking node.

Network interfaces

Manage network interfaces manually (using the ip command) and persistently.

Virtual bridging

Install and manage virtual network bridges.

Virtual network devices

Create and deploy virtual network devices.

Network namespaces

Manage and implement networks inside a network namespace.

Neutron services

Verify and manage the Neutron services.

Provisioning tenant networks

Provision tenant networks using VXLAN tunnels, GRE tunnels, and VLANs.

Implementing load-balancer-as-a-service (LBaaS)

Implement LbaaS.

Neutron networking services

Diagnose and troubleshoot issues with the Neutron networking service.

Comprehensive Review

Review tasks from the Red Hat OpenStack III course.

**Note:** Course outline is subject to change with technology advances and as the nature of the underlying job evolves. For questions or confirmation on a specific objective or topic, please [contact us](#).

## Options

[Red Hat Certified Engineer in OpenStack exam \(EX310\)](#)

Become a RHCE in OpenStack by passing our exam, where you will demonstrate your abilities to integrate and configure with [Red Hat Enterprise Linux OpenStack Platform](#), [Red Hat Ceph Storage](#), and Neutron services.

## Dates de session

Sur demande. [Merci de nous contacter](#)

## Informations

### Complémentaires

[Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.](#)