

Red Hat OpenStack Administration II: Day 2 Operations for Cloud Operators

Duration: 5 Days Course Code: CL210 Delivery Method: Virtual Learning

Overview:

Introduction to Red Hat OpenStack Platform configuration and administration of private cloud infrastructure using core OpenStack services. Red Hat OpenStack Administration II: Infrastructure Configuration for Cloud Administrators (CL210) teaches you how to implement a full-featured cloud computing environment using OpenStack. You will learn how to configure, administer, and manage Red Hat® OpenStack Platform infrastructure. The lessons and objectives taught in this course will prepare you for the Red Hat Certified System Administrator in Red Hat OpenStack exam (EX210).

This course is based on Red Hat OpenStack Platform 13.0 and Red Hat® Enterprise Linux® 7.5.

The focus of this course is on managing and using the OpenStack client command-line interface and the director and dashboard graphical web user interfaces to securely manage server instances, compute and storage resources, and user identities.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

This course is intended for Linux system administrators, cloud administrators, cloud operators, and infrastructure architects interested in, or responsible for, maintaining a private or hybrid cloud.

Objectives:

- As a result of attending this course, you will know how to configure and manage an OpenStack installation featuring all of the common, core features and services used by enterprise private/hybrid cloud customers. You will also be able to choose and customize compute, storage, networking, deployment, and application support resources and services tailored to your enterprise needs.
- Students should be able to demonstrate the following skills:
 - Navigate and manage the control plane on the undercloud and the overcloud.
 - Work with containerized overcloud infrastructure services.
 - Manage necessary authentication, authorization, and security administration.
 - Navigate and describe all network layers in an IaaS and all aspects of SDN design and management.
 - Manage compute node and storage resource, including hyperconvergence.
 - Troubleshoot typical OpenStack operations.

Prerequisites:

- Be a Red Hat Certified System Administrator (RHCSA), or demonstrate equivalent experience by passing the online skills assessment
- Attend Red Hat OpenStack Administration I: Core Operations for Cloud Operators (CL110), or demonstrate equivalent experience
- CL110 - Red Hat OpenStack Administration I: Core Operations for Domain Operators

Testing and Certification

This course helps you prepare for the following exams:

- Red Hat Certified System Administrator in Red Hat OpenStack exam (EX210)

Follow-on-Courses:

- EX210 - Red Hat Certified System Administrator in Red Hat OpenStack Exam
- EX310 - Red Hat Certified Engineer in Red Hat OpenStack Platform Exam
- CL310 - Red Hat OpenStack Administration III: Networking and Foundations of NFV

Content:

Navigate the Red Hat OpenStack Platform architecture	Build an image using diskimage-builder and customize launched instances during deployment using cloud-init.	Automate cloud applications
Describe the classroom environment, support systems, functions of the undercloud components, and more.	Manage storage	Explain the orchestration architecture required to deploy application stacks and write templates using the Heat Orchestration Template (HOT) language.
Describe the OpenStack control plane	Explain persistent storage options for use in OpenStack, focusing on the expanding capabilities of the default Red Hat® Ceph Storage.	Troubleshoot OpenStack operations
Identify the shared services running on a controller node and describe service endpoint configuration and security.	Manage OpenStack networking	Discuss recommended diagnostic and troubleshooting tools and techniques.
Integrate identity management	Explain the different network types available to the OpenStack networking service and improve network performance with Open Virtual Network.	Comprehensive review
Describe the installation and architecture of a Red Hat Identity Management back end for the OpenStack identity service.	Manage compute resources	Build a custom image and launch an instance using the custom image.
Perform image operations	Perform common compute node administration tasks, including live migration, evacuation, and enabling and disabling compute nodes.	

Additional Information:

Red Hat Learning Subscriptions:

The Red Hat Learning Subscription is an exclusive program that provides users with 12-months access to all Red Hat Online Learning and video classroom courses. All subscribers will receive unlimited access to online learning content, up to 400 hours of hands-on lab time and more than 300 recorded instructor videos.

There are two versions available: Basic and Standard. These are also available in an Enterprise variant for large companies. The Standard is the most extensive subscription and offers access to Red Hat exams as an extra.

For more information please see LS120 and LS220 below

https://www.globalknowledge.com/en-GB/Products/Red_Hat/LS120

https://www.globalknowledge.com/en-GB/Courses/Red_Hat/Operating_Systems/LS220

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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