red hat TRAINING



RED HAT OPENSTACK ADMINISTRATION II CL210

Learn how to install, configure, use, and maintain Red Hat OpenStack Platform

COURSE DURATION : 4 DAYS DATASHEET





COURSE CONTENT SUMMARY

- Build and customize an image
- Write a Heat template
- Diagnose and troubleshoot OpenStack issues holistically
- Manage Ceph storage in an
 OpenStack environment
- Scale compute nodes
- Migrate instances
- Scale stacks automatically

EXAM COMPETENCIES COVERED IN THE COURSE INCLUDE:

- Expanding compute nodes on Red Hat OpenStack Platform using the undercloud.
- Managing images, networking, and block storage.
- Providing orchestration and auto-scaling (scale-out and scale-back).
- Building a customized image.

THIS COURSE IS BASED ON RED HAT OPENSTACK PLATFORM 10.

Red Hat[®] OpenStack[®] Administration II (CL210) teaches system administrators how to implement a cloud-computing environment using Red Hat OpenStack Platform, including installation, configuration, and maintenance.

This course can also help your prepare for the Red Hat Certified System Administrator in Red Hat The focus of this course is managing Red Hat OpenStack Platform using the unified command-line interface, managing instances, and maintaining an enterprise deployment of OpenStack. This course also teaches the management and customization of an enterprise deployment of OpenStack (overcloud) and how to manage compute nodes with Red Hat OpenStack Platform director (undercloud).

AUDIENCE

This course is designed for Linux[®] system administrators, cloud administrators, and cloud operators.

PREREQUISITES FOR THIS COURSE

- Red Hat OpenStack Administration I (CL110) course or equivalent experience
- Red Hat Certified System Administrator (RHCSA) certification or equivalent experience

WAYS TO TRAIN/TEST

Red Hat offers a method of training that is convenient to you - classroom, online, or at your site.

COURSE OUTLINE

COURSE INTRODUCTION

Introduce and review the course.

MANAGE AN ENTERPRISE OPENSTACK DEPLOYMENT Manage the undercloud, the overcloud, and related services.

MANAGE INTERNAL OPENSTACK COMMUNICATION Administer the Keystone identity service and the advanced message queueing protocol (AMQP) messaging service.

BUILD AND CUSTOMIZE IMAGES Build and customize images.

MANAGE AND TROUBLESHOOT

MANAGE STORAGE

Manage Ceph and Swift storage for OpenStack.

MANAGE RESILIENT COMPUTE RESOURCES

Add compute nodes, manage shared storage, and perform live instance migration.



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MANAGE RESILIENT COMPUTE RESOURCES Add compute nodes, manage shared storage, and perform live instance migration.

TROUBLESHOOT OPENSTACK ISSUES

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Diagnose and troubleshoot OpenStack issues and services.

Manage and troubleshoot virtual network infrastructure.

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ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

Learn more at redhat.com.

MONITOR CLOUD METRICS FOR AUTOSCALING

Monitor and analyze cloud metrics for use in orchestration autoscaling.

ORCHESTRATE DEPLOYMENTS

Deploy Heat stacks that automatically scale.

AFTER THE COURSE

RED HAT CERTIFIED SYSTEM ADMINISTRATOR IN RED HAT OPENSTACK EXAM (EX210)

Demonstrate your ability to build and manage private clouds using Red Hat OpenStack Platform.

RED HAT OPENSTACK ADMINISTRATION III: NETWORKING & FOUNDATIONS OF NFV (CL310)

Learn to deploy, manage, and configure Red Hat Ceph Storage and Red Hat OpenStack Platform.

RED HAT OPENSTACK ADMINISTRATION III: NETWORKING & FOUNDATIONS OF NFV WITH EXAM (CL311)

Learn to deploy, manage, and configure Red Hat Ceph Storage and Red Hat OpenStack Platform and demonstrate your skills and knowledge to become a Red Hat Certified Engineer in Red Hat OpenStack.

IMPACT OF THIS TRAINING

IMPACT ON THE ORGANIZATION

This course is intended to develop the skills needed to troubleshoot and manage the life cycle of a private cloud. Control of the life cycle is important for organizations seeking to manage costs according to their own schedule, and having advanced administrators reduces downtime.

Red Hat has created this course in a way intended to benefit our customers, but each company and infrastructure is unique, and actual results or benefits may vary.

IMPACT ON THE INDIVIDUAL

As a result of attending this course, students should be able to manage the life cycle of Red Hat OpenStack Platform.

Students should be able to demonstrate the following skills:

- Understand the concepts of undercloud, overcloud, and Heat templates.
- Manage internal Red Hat OpenStack Platform communication.
- Build custom disk images.
- Manage Ceph and Swift.
- Troubleshoot an SDN infrastructure.
- Manage resilient compute resources.
- Troubleshoot general Red Hat OpenStack Platform issues.
- Monitor cloud metrics.
- Deploy Heat stacks.

NORTH AMERICA

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