



RED HAT TRAINING

CL211 Red Hat Openstack Administration Training Course

Deploy & manage Red Hat Openstack Cloud with CL211. Master administration for robust, scalable infrastructure.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The CL211 Red Hat OpenStack Administration Training Course is an intensive, intermediate-level program designed for IT professionals seeking to master the administration of Red Hat OpenStack Platform environments. This course provides comprehensive, hands-on experience in deploying, managing, and troubleshooting a robust OpenStack cloud. Participants will delve into the core architectural components of OpenStack, gaining practical skills to manage compute, storage, and networking resources effectively, ensuring high availability and scalability for modern cloud infrastructure.

Throughout this training, you will explore crucial Red Hat OpenStack technologies including Nova for compute, Neutron for networking, Cinder for block storage, Glance for image management, and Keystone for identity services. The curriculum emphasizes practical application, guiding you through real-world scenarios for configuring services, deploying instances, managing users, and integrating essential services like Ceph storage. This course is ideal for administrators who need to build, operate, and maintain an enterprise-grade private cloud solution.

Upon completion, you will possess a strong foundation in Red Hat OpenStack administration, enabling you to efficiently manage cloud resources, respond to operational challenges, and optimize performance. This expertise not only enhances your ability to support complex cloud deployments but also serves as a critical stepping stone towards achieving Red Hat certifications, significantly boosting your career prospects in the rapidly expanding field of cloud computing and open-source technologies.

Duration	2 hours
Level	Intermediate
Vendor	Red Hat

COURSE CURRICULUM

01 Module 1: Introduction to Red Hat OpenStack Platform

- Understanding OpenStack Architecture and Components
- Overview of Red Hat OpenStack Platform
- Planning an OpenStack Deployment Strategy
- Introduction to Identity and Image Services (Keystone, Glance)

02 Module 2: Installing and Configuring Core Services

- Preparing the Undercloud and Overcloud Environment
- Deploying Red Hat OpenStack Platform with director
- Configuring the Keystone Identity Service
- Managing Image Uploads and Storage with Glance

03 Module 3: Managing Compute and Network Resources

- Administering Nova Compute Service and Instances
- Neutron Networking Service Configuration and Management
- Implementing Software-Defined Networking (SDN) concepts
- Working with Floating IPs, Security Groups, and Routers

04 Module 4: OpenStack Storage Management

- Configuring and Managing Cinder Block Storage Service
- Integrating Ceph Storage with OpenStack

- Working with Swift Object Storage (overview)
- Managing Volumes, Snapshots, and Backups

05 Module 5: Advanced Operations and Troubleshooting

- Utilizing the Horizon Dashboard for Management
- Monitoring OpenStack Services and Resources
- Troubleshooting Common OpenStack Issues
- Understanding High Availability in OpenStack Environments

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Red Hat OpenStack Cloud Administrator**
- > **DevOps Engineer (OpenStack Specialist)**
- > **Cloud Infrastructure Engineer**

FREQUENTLY ASKED QUESTIONS

Q: What prior knowledge or experience is recommended before enrolling in the CL211 Red Hat OpenStack Administration Training Course?

To get the most out of the CL211 course, we highly recommend that participants have a strong working knowledge of Linux command-line operations, equivalent to a Red Hat Certified System Administrator (RHCSA). Familiarity with basic networking concepts, virtualization principles, and Red Hat Enterprise Linux is also crucial for understanding the advanced topics covered.

Q: Beyond basic setup, what advanced skills will I gain that are directly applicable to enterprise OpenStack environments?

This course goes beyond foundational setup to equip you with advanced skills critical for enterprise OpenStack deployments. You will master the configuration of complex Neutron networking, learn to integrate and manage Ceph storage, effectively troubleshoot OpenStack service failures, and understand best practices for maintaining a scalable and highly available cloud infrastructure, making you proficient in real-world operational challenges.

Q: How does completing the CL211 course prepare me for Red Hat certifications, and which ones specifically?

The CL211 Red Hat OpenStack Administration Training Course is the official training pathway designed to prepare you for the Red Hat Certified System Administrator in Red Hat OpenStack (EX210) exam. Successfully completing this course provides you with the comprehensive knowledge and hands-on skills necessary to confidently attempt and pass the EX210 certification, validating your expertise in administering Red Hat OpenStack Platform in an enterprise setting.

ABOUT COMPUTER PRIDE

**computerpride*****East Africa's Premier IT Training Center***

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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