



RED HAT TRAINING

CI261 Red Hat Ceph Storage Openstack Exam Course

Master Red Hat Ceph Storage with OpenStack. Gain skills to deploy, manage, and scale software-defined storage for cloud environments.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

The CL261 Red Hat Ceph Storage Openstack Exam Course is a highly focused, intensive 2-hour session designed to rapidly prepare experienced IT professionals for the challenges of integrating and managing Red Hat Ceph Storage within an OpenStack environment. This course is not an introductory training but rather an accelerated review, specifically tailored to reinforce the critical knowledge and practical skills required for a Red Hat certification exam. Participants will revisit the architecture, deployment, and management of scalable, software-defined storage solutions, ensuring high availability and robust data management for OpenStack clouds.

This course zeroes in on the core technologies essential for exam success: understanding Ceph's distributed architecture, its interaction with key OpenStack services like Cinder (block storage) and Glance (image storage), and the practical skills needed for configuration, troubleshooting, and maintenance. By condensing complex topics into a targeted review, learners will solidify their understanding of how to leverage Ceph to provide resilient and performant storage for virtual machines, volumes, and images within an enterprise-grade OpenStack infrastructure. The professional benefit lies in efficiently sharpening your expertise, validating your skills through certification, and advancing your career in the rapidly growing fields of cloud computing and software-defined storage.

Duration	2 hours
Level	Intermediate
Vendor	Red Hat

COURSE CURRICULUM

01 Module 1: Red Hat Ceph Storage & OpenStack Integration Essentials

- Review of Ceph architecture and core components for OpenStack environments
- Understanding Ceph storage concepts: OSDs, MONs, PGs, CRUSH maps
- Key integration points: Ceph with OpenStack Cinder, Glance, and Nova
- Identifying exam-critical theoretical concepts of Ceph-OpenStack interaction

02 Module 2: Hands-on Configuration & Management Review

- Accelerated review of configuring Cinder to utilize Ceph as a backend
- Configuring Glance for image storage on Red Hat Ceph Storage
- Essential Ceph cluster monitoring and troubleshooting commands
- Common OpenStack storage-related issues and their resolutions with Ceph

03 Module 3: Exam Readiness and Best Practices

- Overview of typical Red Hat certification exam scenarios for Ceph and OpenStack
- Review of performance considerations and optimization strategies for Ceph within OpenStack
- Best practices for maintaining a robust and scalable Ceph storage backend for OpenStack
- Identifying crucial areas for self-study and last-minute exam preparation

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

> OpenStack Cloud Administrator specializing in Storage

- > **Software-Defined Storage Architect (with a focus on Ceph for Cloud)**
- > **Cloud Infrastructure Engineer (managing storage backends for IaaS platforms)**

FREQUENTLY ASKED QUESTIONS

Q: Given this is a 2-hour exam course, what is the expected prior experience with Red Hat Ceph Storage and OpenStack that participants should have?

This CL261 course is designed as an accelerated exam preparation and review, not an introductory training. We expect participants to have a solid foundational understanding and practical experience with both Red Hat Ceph Storage deployment and management, as well as significant experience with OpenStack administration, particularly with Cinder and Glance services. It is ideal for those who have completed official Red Hat training courses like RH210 (Red Hat OpenStack Administration I) and RH211 (Red Hat OpenStack Administration II), or have equivalent hands-on experience, and are looking to consolidate their knowledge specifically for a certification exam.

Q: How will completing the CL261 course specifically prepare me for the types of practical, hands-on questions I might encounter in a Red Hat certification exam related to Ceph and OpenStack?

The CL261 course focuses on reinforcing the practical skills and core concepts frequently tested in Red Hat certification exams pertaining to Ceph and OpenStack. While a 2-hour session cannot replace extensive hands-on practice, it will guide you through key configuration steps, common troubleshooting scenarios, and critical architectural understanding. We will highlight specific commands, configuration file locations, and best practices that are often part of performance-based exam objectives, ensuring you refresh your memory on the most impactful areas for success.

Q: Beyond Cinder and Glance, what other OpenStack services can benefit from Ceph integration, and does CL261 touch upon these in its short duration?

While Cinder (block storage) and Glance (image storage) are the primary OpenStack services that deeply integrate with Red Hat Ceph Storage and are the main focus of typical certification exams, Ceph's versatility also extends to other services. For instance, Nova can directly consume Ceph storage for boot-from-volume instances, and Manila (file share service) can use CephFS. Swift-compatible object storage can also be provided by Ceph Rados Gateway. Given the CL261 course's 2-hour duration and its specific aim for exam preparation, it will primarily concentrate on the core and most commonly tested integrations with Cinder and Glance, with brief mentions of other possibilities where relevant to exam objectives, rather than providing in-depth coverage of every integration.

ABOUT COMPUTER PRIDE



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+

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Take the next step in your technology career.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke