Red Hat Ceph Storage for OpenStack - Red Hat Learning Subscription Course (CL260LS)

Category: Cloud Platforms | **Vendor:** Red Hat

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Related Exam: Red Hat Ceph Storage for OpenStack; Storage; CL260

Course Overview

Build skills to manage hybrid cloud Red Hat Ceph Storage for medium and cloud-scale enterprise applications and for Red Hat OpenStack Platform. Cloud Storage with Red Hat Ceph Storage (CL260) is designed for storage administrators and cloud operators who deploy Red Hat Ceph Storage in a production data center environment or as a component of a Red Hat OpenStack Platform or OpenShift Container Platform infrastructure. Learn how to deploy, manage, and scale a Ceph storage cluster to provide hybrid storage resources, including Amazon S3 and OpenStack Swift-compatible object storage, Ceph-native and iSCSI-based block storage, and shared file storage. This course is based on Red Hat Ceph Storage 5.0. RHLS Course Includes: 365-Day RHLS Subscription - Full year of access starting from your purchase date. Official Red Hat Training Curriculum - Learn directly from Red Hat’s validated, up-to-date course materials. Hands-On Labs (100 Hours per Course) - Build practical, real-world skills through extensive lab time. One Certification Exam + Free Retake - Includes exam readiness resources to help you prepare with confidence. One Virtual, Instructor-Led Class - Attend a live online class through the Red Hat portal (self-enrollment required using your RHID).

About This Course

Build skills to manage hybrid cloud Red Hat Ceph Storage for medium and cloud-scale enterprise applications and for Red Hat OpenStack Platform. Cloud Storage with Red Hat Ceph Storage (CL260) is designed for storage administrators and cloud operators who deploy Red Hat Ceph Storage in a production data center environment or as a component of a Red Hat OpenStack Platform or OpenShift Container Platform infrastructure. Learn how to deploy, manage, and scale a Ceph storage cluster to provide hybrid storage resources, including Amazon S3 and OpenStack Swift-compatible object storage, Ceph-native and iSCSI-based block storage, and shared file storage. This course is based on Red Hat Ceph Storage 5.0. RHLS Course Includes: 365-Day RHLS Subscription - Full year of access starting from your purchase date. Official Red Hat Training Curriculum - Learn directly from Red Hat's validated, up-to-date course materials. Hands-On Labs (100 Hours per Course) - Build practical, real-world skills through extensive lab time. One Certification Exam + Free Retake - Includes exam readiness resources to help you prepare with confidence. One Virtual, Instructor-Led Class - Attend a live online class through the Red Hat portal (self-enrollment required using your RHID).

Who Should Attend

- This course is intended for storage administrators and cloud operators who want to learn how to deploy and manage Red Hat Ceph Storage on servers in an enterprise data center or within a Red Hat OpenStack Platform or OpenShift Container Platform environment.
- Developers writing applications that use cloud-based storage will learn the distinctions of various storage types and client access methods.

Prerequisites & Entry Requirements

General Prerequisites:

- Red Hat Certified System Administrator (RHCSA) certification, or equivalent experience.
- Some experience with storage administration is recommended but not required.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Deploy and manage a Red Hat Ceph Storage cluster on commodity servers. Perform common management operations using the web-based management interface. Create, expand, and control access to storage pools provided by the Ceph cluster. Access Red Hat Ceph Storage from clients using object, block, and file-based methods. Analyze and tune Red Hat Ceph Storage performance. Integrate Red Hat OpenStack Platform image, object, block, and file storage with a Red Hat Ceph Storage cluster. Integrate OpenShift Container Platform with a Red Hat Ceph Storage cluster.

Detailed Course Outline

1 - Introducing Red Hat Ceph Storage architecture

- Describe Red Hat Ceph Storage architecture, including data organization, distribution and client access methods.

2 - Deploying Red Hat Ceph Storage

- Deploy a new Red Hat Ceph Storage cluster and expand the cluster capacity.

3 - Configuring a Red Hat Ceph Storage cluster

- Manage the Red Hat Ceph Storage configuration, including the primary settings, the use of monitors, and the cluster network layout.

4 - Creating object storage cluster components

- Create and manage the components that comprise the object storage cluster, including OSDs, pools, and the cluster authorization method.

5 - Creating and customizing storage maps

- Manage and adjust the CRUSH and OSD maps to optimize data placement to meet the performance and redundancy requirements of cloud applications.

6 - Providing block storage using RADOS Block Devices

- Configure Ceph to provide block storage for clients by using RADOS block devices (RBDs).

7 - Providing object storage using a RADOS Gateway

- Configure Ceph to provide object storage for clients by using a RADOS Gateway (RGW).

8 - Providing file storage with CephFS

- Configure Ceph to provide file storage for clients using the Ceph File System (CephFS).

9 - Managing a Red Hat Ceph Storage cluster

- Manage an operational Ceph cluster using tools to check status, monitor services, and properly start and stop all or part of the cluster. Perform cluster maintenance by replacing or repairing cluster components, including MONs, OSDs, and PGs.

10 - Tuning and troubleshooting Red Hat Ceph Storage

- Identify the key Ceph cluster performance metrics and use them to tune and troubleshoot Ceph operations for optimal performance.

11 - Managing Red Hat OpenStack Platform storage with Red Hat Ceph Storage

- Manage an OpenStack infrastructure to use Red Hat Ceph Storage to provide image, block, volume, object, and shared file storage.

12 - Comprehensive review

- Review tasks from Cloud Storage with Red Hat Ceph Storage.

Frequently Asked Questions

Q: What delivery options are available for Red Hat Ceph Storage for OpenStack - Red Hat Learning Subscription Course (CL260LS)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: Which exam does this course prepare me for?

This course prepares you for the Red Hat Ceph Storage for OpenStack; Storage; CL260 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 4-day Red Hat Ceph Storage for OpenStack - Red Hat Learning Subscription Course (CL260LS) course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Red Hat Ceph Storage for OpenStack - Red Hat Learning Subscription Course (CL260LS) training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Red Hat Ceph Storage for OpenStack - Red Hat Learning Subscription Course (CL260LS)?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat Ceph Storage for OpenStack - Red Hat Learning Subscription Course (CL260LS). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Red Hat Ceph Storage for OpenStack - Red Hat Learning Subscription Course (CL260LS)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Red Hat Ceph Storage for OpenStack - Red Hat Learning Subscription Course (CL260LS) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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