Cloud Storage With Red Hat Ceph Storage (CL260)

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

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

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 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 version 4.2.

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 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 version 4.2.

Who Should Attend

This course is geared toward Windows system administrators, network administrators, and other system administrators who are interested in supplementing current skills or backstopping other team members, in addition to Linux system administrators who are responsible for these tasks. This course is intended for storage administrators and cloud operators who want to learn how to deploy and manage Red Hat Ceph Storage for use by servers in an enterprise data center or within a Red Hat OpenStack Platform environment. Developers writing applications who use cloud-based storage will learn the distinctions of various storage types and client access methods.

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 using Red Hat Ansible Automation Platform. 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.

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.

Additional Course Details

Nexus Humans Cloud Storage With Red Hat Ceph Storage (CL260) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Cloud Storage With Red Hat Ceph Storage (CL260) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Cloud Storage With Red Hat Ceph Storage (CL260)?

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: How many CPD hours does this course provide?

The 5-day Cloud Storage With Red Hat Ceph Storage (CL260) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Cloud Storage With Red Hat Ceph Storage (CL260) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Cloud Storage With Red Hat Ceph Storage (CL260)?

Yes, we provide corporate training, dedicated training, and closed classes for Cloud Storage With Red Hat Ceph Storage (CL260). 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 Cloud Storage With Red Hat Ceph Storage (CL260)?

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 Cloud Storage With Red Hat Ceph Storage (CL260) 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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