Enterprise Kubernetes Storage with Red Hat OpenShift Data Foundation - Red Hat Learning Subscription Course (DO370LS)

Category: Software Development & Programming | **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: EX280; EX200; DO370

Course Overview

Teaches the essential skills required to design, implement, and manage a Red Hat OpenShift Data Foundation cluster and perform day-to-day Kubernetes storage management tasks. Traditional storage options available to Kubernetes administrators are limited and lack flexibility and/or versatility. Red Hat OpenShift Data Foundation provides real advantages, even when it is backed by cloud storage such as AWS EBS and sophisticated on-prem legacy storage like SAN arrays. Many companies rely on third-party solutions to manage backup and disaster recovery in production. However, proper planning to implement these solutions requires knowledge of the Kubernetes CSI and OAPD APIs. This course walks the student through the recommended steps of configuring and managing storage services for container and Kubernetes services. 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

Teaches the essential skills required to design, implement, and manage a Red Hat OpenShift Data Foundation cluster and perform day-to-day Kubernetes storage management tasks. Traditional storage options available to Kubernetes administrators are limited and lack flexibility and/or versatility. Red Hat OpenShift Data Foundation provides real advantages, even when it is backed by cloud storage such as AWS EBS and sophisticated on-prem legacy storage like SAN arrays. Many companies rely on third-party solutions to manage backup and disaster recovery in production. However, proper planning to implement these solutions requires knowledge of the Kubernetes CSI and OAPD APIs. This course walks the student through the recommended steps of configuring and managing storage services for container and Kubernetes services. 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

Cluster administrators (systems administrators, cloud administrators, cloud engineers) Cluster engineers (systems administrators, cloud administrators, cloud engineers) Site reliability engineers (SREs)

Prerequisites & Entry Requirements

General Prerequisites:

- Red Hat Certified Specialist in OpenShift Administration exam (EX280) or equivalent knowledge for the roles of Red Hat OpenShift cluster engineer or SRE.
- Red Hat Certified System Administrator exam (EX200) or equivalent knowledge of Linux system administration is recommended for all roles.
- While not required, students who have completed Red Hat OpenShift Administration III: Scaling Kubernetes Deployments in the Enterprise (DO380) will have advanced knowledge of the Red Hat OpenShift platform in preparation for implementing and working with Red Hat Openshift Data Foundation (formerly Red Hat OpenShift Container Storage).
- Basic knowledge of Red Hat Ansible Automation Platform is recommended but not required.
- Basic knowledge of storage technologies, such as disk types, SAN, and NAS is recommended.

Learning Outcomes

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

Deploy Red Hat OpenShift Data Foundation in internal and external mode. Provision non-shareable block storage to applications like databases. Provision shareable block storage to applications like virtual machines. Provision shareable file storage to such applications as CI/CD pipelines and AI/ML. Provision shareable object storage to applications, such as AI/ML and media streaming. Provision storage for Red Hat OpenShift cluster services, such as monitoring and registry. Monitor and expand storage capacity and performance Attach and detach storage from an application for backup and archiving. Create and access volume snapshots and clones. Troubleshoot internal Ceph components of Red Hat OpenShift Data Foundation. Perform backup and restore operations using the OADP API.

Detailed Course Outline

1 - Describing Red Hat OpenShift Data Foundation deployment architectures

2 - Deploying OpenShift Data Foundation on Red Hat OpenShift using Internal, Converged Mode

3 - Configuring Red hat OpenShift Cluster Services to use OpenShift Data Foundation

4 - Configuring application workloads to use OpenShift Data Foundation block and file storage

5 - Monitoring and expanding OpenShift Data Foundation block and file storage capacity

6 - Troubleshooting Ceph components from OpenShift Data Foundation

7 - Expanding OpenShift Data Foundation block and file storage volumes

8 - Performing backup and restore of OpenShift Data Foundation block and file volumes

9 - Configuring application workloads to use OpenShift Data Foundation object storage

10 - Monitoring and expanding OpenShift Data Foundation object storage capacity

11 - Performing backup and restore of OpenShift Data Foundation object buckets

12 - Deploying OpenShift Data Foundation on Red Hat OpenShift using external mode

Frequently Asked Questions

Q: What delivery options are available for Enterprise Kubernetes Storage with Red Hat OpenShift Data Foundation - Red Hat Learning Subscription Course (DO370LS)?

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 EX280; EX200; DO370 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 Enterprise Kubernetes Storage with Red Hat OpenShift Data Foundation - Red Hat Learning Subscription Course (DO370LS) 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 Enterprise Kubernetes Storage with Red Hat OpenShift Data Foundation - Red Hat Learning Subscription Course (DO370LS) 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 Enterprise Kubernetes Storage with Red Hat OpenShift Data Foundation - Red Hat Learning Subscription Course (DO370LS)?

Yes, we provide corporate training, dedicated training, and closed classes for Enterprise Kubernetes Storage with Red Hat OpenShift Data Foundation - Red Hat Learning Subscription Course (DO370LS). 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 Enterprise Kubernetes Storage with Red Hat OpenShift Data Foundation - Red Hat Learning Subscription Course (DO370LS)?

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 Enterprise Kubernetes Storage with Red Hat OpenShift Data Foundation - Red Hat Learning Subscription Course (DO370LS) 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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