Red Hat OpenShift Administration II: Configuring a Production Cluster - Red Hat Learning Subscription Course (DO280LS)

Category: Networking & Security | **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 OpenShift Administration II: Configuring a Production Cluster; Cloud Computing; DO280

Course Overview

Configure and manage OpenShift clusters to maintain security and reliability across multiple applications and development teams. Red Hat OpenShift Administration II: Configuring a Production Cluster (DO280) prepares OpenShift Cluster Administrators to perform daily administration tasks on clusters that host applications provided by internal teams and external vendors, enable self-service for cluster users with different roles, and deploy applications that require special permissions such as such as CI/CD tooling, performance monitoring, and security scanners. This course focuses on configuring multi-tenancy and security features of OpenShift as well as managing OpenShift add-ons based on operators. The skills you learn in this course can be applied using all versions of OpenShift, including Red Hat OpenShift on AWS (ROSA), Azure Red Hat OpenShift, and OpenShift Container Platform. This course is based on OpenShift Container Platform 4.14. 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

Configure and manage OpenShift clusters to maintain security and reliability across multiple applications and development teams. Red Hat OpenShift Administration II: Configuring a Production Cluster (DO280) prepares OpenShift Cluster Administrators to perform daily administration tasks on clusters that host applications provided by internal teams and external vendors, enable self-service for cluster users with different roles, and deploy applications that require special permissions such as such as CI/CD tooling, performance monitoring, and security scanners. This course focuses on configuring multi-tenancy and security features of OpenShift as well as managing OpenShift add-ons based on operators. The skills you learn in this course can be applied using all versions of OpenShift, including Red Hat OpenShift on AWS (ROSA), Azure Red Hat OpenShift, and OpenShift Container Platform. This course is based on OpenShift Container Platform 4.14. 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

Platform Administrators, System Administrators, Cloud Administrators, and other infrastructure-related IT roles who are responsible for managing and maintaining infrastructure for applications. Enterprise Architects, Site Reliability Engineers, DevOps Engineers, and other application-related IT roles who are responsible for designing infrastructure for applications

Prerequisites & Entry Requirements

General Prerequisites:

- Red Hat OpenShift Administration I: Operating a Production Cluster (DO180), or equivalent skills deploying and managing Kubernetes applications using the OpenShift web console and command-line interfaces.
- Significant experience with Linux System Administration is not needed for this course. Basic skills operating a Bash shell, manipulating files and processes, and verifying system confirmations such as network addresses are necessary and sufficient.

Learning Outcomes

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

Deploying packaged applications using manifests, templates, kustomize, and helm. Configuring authentication and authorization for users and applications. Protecting network traffic with network policies and exposing applications with proper network access. Deploying and managing applications using resources manifests. Enabling developer self-service of application projects. Managing OpenShift cluster updates and Kubernetes operator updates.

Detailed Course Outline

1 - Declarative Resource Management

- Deploy and update applications from resource manifests that are parameterized for different target environments.

2 - Deploy Packaged Applications

- Deploy and update applications from resource manifests that are packaged for sharing and distribution.

3 - Authentication and Authorization

- Configure authentication with the HTPasswd identity provider and assign roles to users and groups.

4 - Network Security

- Protect network traffic between applications inside and outside the cluster.

5 - Expose non-HTTP/SNI Applications

- Expose applications to external access without using an Ingress controller.

6 - Enable Developer Self-Service

- Configure clusters for safe self-service by developers from multiple teams and disallow self-service if projects have to be provisioned by the operations staff.

7 - Manage Kubernetes Operators

- Install and update Operators that are managed by the Operator Lifecycle Manager and by the Cluster Version Operator.

8 - Application Security

- Run applications that require elevated or special privileges from the host Operating System or Kubernetes.

9 - OpenShift Updates

- Update an OpenShift cluster and minimize disruption to deployed applications.

Frequently Asked Questions

Q: What delivery options are available for Red Hat OpenShift Administration II: Configuring a Production Cluster - Red Hat Learning Subscription Course (DO280LS)?

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 OpenShift Administration II: Configuring a Production Cluster; Cloud Computing; DO280 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 OpenShift Administration II: Configuring a Production Cluster - Red Hat Learning Subscription Course (DO280LS) 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 OpenShift Administration II: Configuring a Production Cluster - Red Hat Learning Subscription Course (DO280LS) 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 OpenShift Administration II: Configuring a Production Cluster - Red Hat Learning Subscription Course (DO280LS)?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat OpenShift Administration II: Configuring a Production Cluster - Red Hat Learning Subscription Course (DO280LS). 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 OpenShift Administration II: Configuring a Production Cluster - Red Hat Learning Subscription Course (DO280LS)?

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 OpenShift Administration II: Configuring a Production Cluster - Red Hat Learning Subscription Course (DO280LS) 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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