



RED HAT TRAINING

Red Hat OpenShift Administration II (DO280)

Master Red Hat OpenShift Administration II (DO280) to deploy, manage, and scale applications efficiently. Prepare for real-world OpenShift challenges.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This Red Hat OpenShift Administration II (DO280) course is designed for experienced Kubernetes administrators, system administrators, and site reliability engineers looking to deepen their expertise in managing and troubleshooting Red Hat OpenShift clusters. It moves beyond the fundamentals, delving into advanced topics such as cluster lifecycle management, enhanced application deployment strategies, and robust security practices. Participants will gain practical skills to maintain the health, performance, and security of production-grade OpenShift environments, ensuring high availability and operational efficiency for cloud-native applications. This intensive training equips you with the knowledge and hands-on experience to tackle complex administrative challenges in OpenShift. You will learn to perform in-place cluster upgrades, implement advanced networking configurations, manage persistent storage solutions, and leverage sophisticated monitoring and logging tools. The course emphasizes practical, real-world scenarios, allowing you to develop a strategic approach to scaling and securing your OpenShift clusters, making you a critical asset in any organization utilizing containerized workflows. By completing Red Hat OpenShift Administration II, you will not only master the operational intricacies of OpenShift but also significantly enhance your value as an IT professional. The skills acquired are directly applicable to optimizing application performance, streamlining development pipelines, and preparing for the demanding Red Hat Certified Specialist in OpenShift Administration exam (EX280), further solidifying your credentials in the rapidly evolving cloud-native landscape.

Duration	2 hours
Level	Intermediate
Vendor	Red Hat
Exam Code	DO280

COURSE CURRICULUM

01 Module 1: Advanced Cluster Management and Upgrades

- Understanding OpenShift Cluster Lifecycle Management
- Performing In-Place OpenShift Cluster Upgrades
- Managing Node Maintenance and Scaling Operations
- Implementing Backup and Restore Strategies for Cluster Components

02 Module 2: Enhancing Application Deployment and Automation

- Implementing Advanced Deployment Strategies (Canary, Blue/Green)
- Integrating CI/CD Pipelines with OpenShift for Automated Deployments
- Managing and Deploying Applications using OpenShift Operators and OLM
- Configuring Custom Resource Definitions (CRDs) for Application Extensibility

03 Module 3: OpenShift Networking and Storage Deep Dive

- Advanced OpenShift SDN Concepts and Network Policies
- Implementing Persistent Storage with CSI Drivers and Storage Classes
- Configuring Dynamic Volume Provisioning and Persistent Volume Claims
- Troubleshooting Complex Networking and Storage Issues

04 Module 4: Security Hardening and Compliance

- Implementing Advanced Role-Based Access Control (RBAC) Policies
- Managing Security Context Constraints (SCCs) for Pod Security

- Securing Container Images and Integrating with Image Registries
- Auditing and Logging for Compliance and Security Monitoring

05 Module 5: Monitoring, Logging, and Troubleshooting OpenShift

- Utilizing Prometheus and Grafana for Comprehensive Cluster Monitoring
- Implementing Centralized Logging with OpenShift Logging (EFK Stack)
- Advanced Troubleshooting Techniques for Applications and Cluster Components
- Setting Up Alerts and Notifications for Critical Cluster Events

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Senior Kubernetes Administrator**
- > **Cloud Platform Engineer specializing in OpenShift**
- > **DevOps Engineer with Advanced OpenShift Expertise**

FREQUENTLY ASKED QUESTIONS

Q: How does this Red Hat OpenShift Administration II (DO280) course directly prepare me for the Red Hat Certified Specialist in OpenShift Administration (EX280) exam?

This DO280 course is specifically designed to cover the objectives required to pass the EX280 exam. It provides intensive hands-on labs and in-depth conceptual understanding of advanced OpenShift administration tasks, including cluster upgrades, advanced networking and storage, security hardening, and troubleshooting. Mastering the practical skills taught in this course is crucial for success in the performance-based EX280 certification.

Q: What are the essential prerequisites for enrolling in Red Hat OpenShift Administration II (DO280) to ensure I can keep pace with the advanced curriculum?

To succeed in DO280, it is highly recommended that you have either completed Red Hat OpenShift Administration I (DO280) or possess equivalent experience in OpenShift or Kubernetes administration. A solid understanding of Linux command-line tools, container concepts (Docker/Podman), and basic Kubernetes objects (Pods, Deployments, Services) is expected. Familiarity with YAML for configuration files is also beneficial.

Q: Beyond standard deployments, what advanced strategies for application scaling, high availability, and disaster recovery will I learn to implement in OpenShift?

This course teaches you to implement advanced deployment strategies like Canary and Blue/Green for seamless updates and rollbacks, minimizing downtime. You'll also learn to configure Horizontal Pod Autoscalers (HPA) and Vertical Pod Autoscalers (VPA) for dynamic scaling, utilize persistent storage solutions for stateful applications, and understand critical components for disaster recovery planning, ensuring your applications remain highly available and resilient.

ABOUT COMPUTER PRIDE

**computerpride*****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+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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