



RED HAT TRAINING

Red Hat OpenShift Administration I (DO180)

Administer Red Hat OpenShift Container Platform, deploying and managing applications effectively. Prepare for your DO180 certification.

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 I (DO180) course provides an essential foundation for IT professionals looking to manage and operate containerized applications on Red Hat OpenShift Container Platform. Participants will gain practical experience in deploying, configuring, and managing applications within an OpenShift cluster, understanding the core concepts of containers, Kubernetes, and OpenShift's unique features. This course is designed for system administrators, developers, and site reliability engineers who need to understand the operational aspects of an OpenShift environment from an administrator's perspective.

By successfully completing this intermediate-level course, you will be equipped with the skills to effectively manage OpenShift projects, deploy applications using various methods, configure networking and storage, and troubleshoot common operational issues. The practical, hands-on labs reinforce key concepts, ensuring you can immediately apply your knowledge in real-world scenarios. This certification acts as a crucial stepping stone for individuals aspiring to manage enterprise-grade container platforms and is an excellent prerequisite for more advanced Red Hat OpenShift administration courses and certifications.

Duration	2 hours
Level	Intermediate
Vendor	Red Hat
Exam Code	DO180

COURSE CURRICULUM

01 Module 1: Introduction to Containers and OpenShift

- Understanding Linux containers and Docker
- Introduction to Kubernetes concepts
- Overview of Red Hat OpenShift Container Platform
- OpenShift cluster architecture and components
- Interacting with OpenShift using the Web Console and CLI

02 Module 2: Deploying Applications on OpenShift

- Deploying applications from container images
- Managing application deployments with DeploymentConfigs and Deployments
- Exposing applications using Routes and Services
- Scaling applications manually and automatically
- Understanding application resource limits

03 Module 3: Managing OpenShift Projects and Users

- Creating and managing projects (namespaces)
- Understanding Role-Based Access Control (RBAC)
- Assigning roles and permissions to users and groups
- Managing user authentication with HTPasswd and other identity providers

04 Module 4: OpenShift Networking and Storage

- Exploring OpenShift's software-defined networking
- Configuring internal and external network access
- Understanding Persistent Volumes (PVs) and Persistent Volume Claims (PVCs)

- Integrating different storage solutions with OpenShift applications

05 Module 5: Building and Managing Container Images

- Creating custom container images with Dockerfiles
- Introduction to OpenShift's Source-to-Image (S2I) process
- Managing image streams and image registries
- Troubleshooting image build failures

06 Module 6: Monitoring and Troubleshooting OpenShift

- Accessing application logs and events
- Monitoring cluster and application health
- Basic troubleshooting of application deployments and pods
- Understanding common OpenShift operational issues

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **OpenShift Cluster Administrator**
- > **Container Platform Engineer**
- > **DevOps Engineer with OpenShift Specialization**

FREQUENTLY ASKED QUESTIONS

Q: What specific skills will I gain that are immediately applicable in a Red Hat OpenShift environment after completing DO180?

Upon completion of Red Hat OpenShift Administration I (DO180), you will be proficient in deploying and scaling applications on OpenShift, managing projects and user access control, configuring basic networking and persistent storage for containerized workloads, and troubleshooting common issues. These hands-on skills are directly transferable to entry-level and intermediate OpenShift administration roles, allowing you to effectively operate and maintain applications within an OpenShift cluster.

Q: What are the recommended prerequisites for someone considering the Red Hat OpenShift Administration I (DO180) course?

While there are no strict official prerequisites, it is highly recommended that participants have a foundational understanding of Linux command-line tools and concepts, including basic shell scripting. Familiarity with container technologies like Docker and basic Kubernetes concepts will also be beneficial, though the course does provide an introduction to these topics. Prior experience as a Linux system administrator or developer working with Linux systems is a strong asset.

Q: How does Red Hat OpenShift Administration I (DO180) prepare me for further Red Hat certifications or advanced OpenShift roles?

DO180 is the foundational course in the Red Hat OpenShift administration track. It provides the essential knowledge and practical skills required to manage an OpenShift cluster. Successfully completing this course and its associated exam (EX180) is the first step towards achieving the Red Hat Certified Specialist in OpenShift Administration certification. It also serves as a critical prerequisite for more advanced courses like Red Hat OpenShift Administration II (DO280), which

delves into advanced cluster management, security, and scaling concepts, paving the way for architect and senior administrator roles.

ABOUT COMPUTER PRIDE



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+

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Take the next step in your technology career.

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