

Red Hat OpenShift Administration III: Scaling Deployments in the Enterprise

Course Duration: 32 Hours

Course Code: DO380

1. Course Overview

The **Red Hat OpenShift Administration III: Scaling Deployments in the Enterprise (DO380)** course is designed for experienced administrators who want to manage and scale enterprise-level Red Hat OpenShift clusters. This advanced training focuses on security, automation, multi-cluster management, and application deployment strategies for large-scale enterprise environments. Participants will gain the expertise to ensure high availability, resilience, and optimized performance across hybrid or multi-cloud infrastructures.

2. What You'll Learn?

By the end of this course, you will be able to:

- Manage **enterprise-scale OpenShift deployments** across multiple environments.
- Implement **advanced cluster security** and compliance.
- Configure and manage **multi-cluster environments with Red Hat Advanced Cluster Management (RHACM)**.
- Secure applications using **Service Mesh, SSO, and compliance tools**.
- Automate cluster operations with **GitOps and Ansible Automation Platform**.
- Implement **disaster recovery and backup strategies**.

- Optimize OpenShift for **performance, scalability, and high availability**.
- Manage applications and workloads in **hybrid and multi-cloud deployments**.

3. Target Audience

This course is intended for:

- **Senior OpenShift administrators** responsible for enterprise operations.
- **Cluster engineers and DevOps specialists** managing large-scale workloads.
- **Site Reliability Engineers (SREs)** ensuring performance and resilience.
- **Architects and IT leaders** planning enterprise OpenShift adoption.

4. Pre-Requisites

Participants should have completed:

- **Red Hat OpenShift Administration I (DO180/DO280 equivalent)**.
- **Red Hat OpenShift Administration II: Operating a Production Cluster (DO280)**.
- Solid experience in **Kubernetes and OpenShift administration**.
- Knowledge of **Linux system administration and containerization concepts**.

5. Course Content

Module 1: Introduction to Enterprise OpenShift Scaling

- OpenShift architecture at scale
- Enterprise challenges and best practices

Module 2: Multi-cluster Management with RHACM

- Installing and configuring Advanced Cluster Management
- Managing policies across multiple clusters

Module 3: Advanced Security and Compliance

- Securing applications with Service Mesh and SSO
- Implementing compliance and audit policies

Module 4: Automating OpenShift Operations

- GitOps with OpenShift GitOps
- Using Ansible Automation Platform for cluster tasks

Module 5: High Availability and Resilience

- Disaster recovery strategies
- Backup and restore of clusters

Module 6: Optimizing Performance and Scalability

- Scaling applications and clusters
- Monitoring with Prometheus and Grafana

Module 7: Hybrid and Multi-cloud Deployments

- Running OpenShift in hybrid cloud environments
- Managing workloads across cloud providers

Module 8: Enterprise Best Practices

- Governance and policy management
- Real-world scaling scenarios and troubleshooting