Red Hat OpenShift Administration III: Scaling Deployments for Enterprise Workloads + EX380

Category: Infrastructure & IT Operations | **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
Certification:	Red Hat Certified Specialist in OpenShift Automation and Integration
Related Exam:	EX380

Course Overview

Plan, implement, and manage OpenShift clusters at scale

Red Hat OpenShift Administration III and exam (DO381) expands upon the skills required to plan, implement, and manage OpenShift® clusters in the enterprise. You will learn how to support a growing number of stakeholders, applications, and users to achieve large-scale deployments.

This offering is based on Red Hat® OpenShift Container Platform 4.6. The Red Hat Certified Specialist in OpenShift Automation and Integration exam (EX380) is included.

Content summary

- Manage OpenShift cluster operators and add operators.
- Automate OpenShift management tasks using Ansible® playbooks.
- Create and schedule cluster administration jobs.
- Implement GitOps workflows using Jenkins.
- Integrate OpenShift with enterprise authentication.
- Query and visualize cluster-wide logs, metrics, and alerts.
- Manage both shared, file-based storage and non-shared, block-based storage.
- Manage machine sets and machine configurations.

About This Course

Plan, implement, and manage OpenShift clusters at scale

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Who Should Attend

- Cluster engineers (systems administrators, cloud administrators, or cloud engineers) focused on planning, designing, and implementing production-grade OpenShift clusters. Cluster engineers require automation skills to scale their manpower to provision and manage an increasing population of clusters, applications, and users, at the same time ensuring these clusters remain in compliance with corporate standards.
- Site reliability engineers (SREs) focused on keeping OpenShift clusters and applications running without disruption. SREs are interested in troubleshooting infrastructure and application issues with OpenShift clusters and require automation skills to reduce the time to identify, diagnose, and remediate issues.

Prerequisites & Entry Requirements

General Prerequisites:

- Complete Red Hat OpenShift Administration II: Configuring a Production Cluster (DO280) and become a Red Hat Certified Specialist in OpenShift Administration.
- Complete Red Hat System Administration II (RH134) and become a Red Hat Certified System Administrator.
- Recommended, but not required: become a Red Hat Certified Systems Engineer or a Red Hat Certified Specialist in Ansible Automation. Basic knowledge about writing and running Ansible playbooks is required.

Learning Outcomes

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

Impact on the organization

This offering supports IT operations teams that are in the prepare and expand stages of their Container Adoption Journey. The curriculum enables companies to innovate faster, scale based on customer demand, and proactively manage a growing number of OpenShift clusters that host cloud-native and cloud-compatible applications.

Red Hat has created this offering in a way intended to benefit our customers, but each company and infrastructure is unique, and actual results or benefits may vary.

Impact on the individual

This offering builds upon the essential skills required to configure and manage an OpenShift 4.x cluster, teaching the enhanced skills needed to operate production environments at scale, including:

- Automating Day 2 tasks to establish production clusters with higher performance and availability.
- Integrating OpenShift with enterprise authentication, storage, CI/CD, and GitOps systems to improve productivity of IT operations and compliance with organization’s standards.
- Troubleshooting techniques to identify issues with cluster operators and compute capacity.

Detailed Course Outline

Move from Kubernetes to OpenShift

Demonstrate that OpenShift is Kubernetes by deploying Kubernetes-native applications on OpenShift.

Introduce automation on OpenShift

Automate OpenShift administration tasks using bash scripts and Ansible playbooks.

Manage operators with OpenShift

Deploy Kubernetes Operators and configure OpenShift cluster operators.

Implement GitOps with Jenkins

Implement a GitOps workflow using containerized Jenkins to administer an OpenShift cluster.

Configure enterprise authentication

Integrate OpenShift with enterprise identity providers.

Configure trusted TLS certificates

Configure OpenShift with trusted TLS certificates for external access to cluster services and applications.

Configure dedicated node pools

Add nodes to an OpenShift cluster with custom configurations tuned for special workloads.

Configure persistent storage

Configure storage providers and storage classes to ensure cluster user access to persistent storage.

Manage cluster monitoring and metrics

Configure and manage the OpenShift monitoring stack.

Provision and inspect cluster logging

Deploy, query, and troubleshoot cluster-wide logging.

Recover failed worker nodes

Inspect, troubleshoot, and remediate worker nodes in a variety of failure scenarios.

📜 Certification Path

Red Hat Certified Specialist in OpenShift Automation and Integration

Exam: EX380

Skills You Will Learn:

Impact on the organization

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Frequently Asked Questions

Q: What delivery options are available for Red Hat OpenShift Administration III: Scaling Deployments for Enterprise Workloads + EX380?

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: What certification does this course prepare me for?

The Red Hat OpenShift Administration III: Scaling Deployments for Enterprise Workloads + EX380 course helps prepare you for the Red Hat Certified Specialist in OpenShift Automation and Integration certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the EX380 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 III: Scaling Deployments for Enterprise Workloads + EX380 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 III: Scaling Deployments for Enterprise Workloads + EX380 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 III: Scaling Deployments for Enterprise Workloads + EX380?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat OpenShift Administration III: Scaling Deployments for Enterprise Workloads + EX380. 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: What related terms do people search for?

Popular related searches include: Red Hat OpenShift Administration III: Scaling Deployments for Enterprise Workloads + EX380, OpenShift Administration, DO381

Q: Why choose Nexus Human for Red Hat OpenShift Administration III: Scaling Deployments for Enterprise Workloads + EX380?

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 III: Scaling Deployments for Enterprise Workloads + EX380 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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