RED HAT OPENSHIFT ADMINISTRATION II: CONFIGURING A PRODUCTION CLUSTER (DO280)

Course Code: 3816

DO280 - 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.

As a result of attending this course, students will be able to perform the set of tasks that OpenShift cluster administrators are expected to perform in their daily jobs for on-premises, cloud-based, and vendor-managed clusters, including enabling add-on operators. Students will also be able manage multi-tenant permissions for different roles and configure applications that require privileged access to cluster and host resources.

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.

Following course completion, hands-on lab access will remain available for up to 45 days for any live course that includes a virtual environment.

Note: This course is offered as a four day in classroom, a five day virtual class or self-paced.

What You'll Learn

After this course participants should be able to:

- Deploy packaged applications using manifests, templates, kustomize, and helm.
- Configure authentication and authorization for users and applications.
- Protect network traffic with network policies and exposing applications with proper network access.
- Deploy and managing applications using resources manifests.
- Enable developer self-service of application projects.
- Manage OpenShift cluster updates and Kubernetes operator updates.

Who Needs to 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

- 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. Students are encouraged to take the free RedHat course Getting Started with Linux Fundamentals (RH104) before enrolling in DO280

Confirmation of the correct skill set knowledge can be obtained by passing the online skills assessment at Red Hat Skills Assessment

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VIRTUAL CLASSROOM LIVE	$4,700 USD	5 Day

Virtual Classroom Live 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.

Virtual Classroom Live Labs

- Labs provided during the course

Sep 15 - 19, 2025 | 11:00 AM - 5:00 PM EDT

Sep 22 - 26, 2025 | 11:00 AM - 5:00 PM EDT

Oct 6 - 10, 2025 | 11:00 AM - 5:00 PM EDT

Oct 20 - 24, 2025 | 11:00 AM - 5:00 PM EDT

Oct 27 - 31, 2025 | 11:00 AM - 5:00 PM EDT

Nov 3 - 7, 2025 | 11:00 AM - 5:00 PM EST

Nov 17 - 21, 2025 | 11:00 AM - 5:00 PM EST

Dec 1 - 5, 2025 | 11:00 AM - 5:00 PM EST

Dec 15 - 19, 2025 | 11:00 AM - 5:00 PM EST

Jan 12 - 16, 2026 | 11:00 AM - 5:00 PM EST

Jan 26 - 30, 2026 | 11:00 AM - 5:00 PM EST

Feb 16 - 20, 2026 | 11:00 AM - 5:00 PM EST

Mar 2 - 6, 2026 | 11:00 AM - 5:00 PM EST

Mar 30 - Apr 3, 2026 | 11:00 AM - 5:00 PM EDT

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Course Code: 3816

ON-DEMAND	$3,995 USD

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

9. **OpenShift Updates**
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On-Demand Labs

- Labs provided during the course

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PRIVATE GROUP TRAINING	4 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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