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RED HAT OPENSHIFT VIRTUALIZATION ADMINISTRATION II: CONFIGURING PRODUCTION VIRTUAL MACHINES (DO256)

Course Code: 832031

DO256 - Create production-ready virtual machines and their supporting Kubernetes and OpenShift resources in Red Hat OpenShift Virtualization.

Red Hat OpenShift Virtualization Administration II: Configuring Virtual Machines (DO256) addresses critical challenges in managing virtual machines in Red Hat OpenShift Virtualization.

This course teaches IT Operations teams the skills to enable advanced networking features for virtual machines and cluster nodes, to migrate virtual machines from other hypervisors to OpenShift Virtualization, to provide data protection and backups of virtual machines, to create efficient and standardized provisioning of virtual machines, and to provide high availability to virtual machines with Kubernetes resources.

Red Hat Learning Subscription COURSE – Included with Your Purchase

Starting January 1, 2026, Red Hat introduces RHLS-Course —a flexible subscription model now included with this catalog offering. This replaces the previous direct virtual class enrollment from Global Knowledge.

When you purchase this item, you'll receive an RHLS subscription at the course level, giving you the freedom to choose the schedule that works best and self-enroll in your selected class.

Your RHLS subscription includes:

- One live, instructor-led virtual session
- 12 months of self-paced learning access
- One certification exam with a free retake

Onsite Classroom-based sessions and closed course options remain unchanged.

What You'll Learn

After completing this course, learners should be able to:

- Understand OpenShift OAuth server concepts and custom resources, including their function in Kubernetes authentication, and define and implement

role-based access controls and user permissions.
- Enable comprehensive and flexible networking for nodes and virtual machines within an OpenShift environment.
- Migrate virtual machines from another hypervisor to Red Hat OpenShift Virtualization by using the migration toolkit for virtualization (MTV) operator.
- Backup and restore virtual machines by using the OpenShift APIs for Data Protection (OADP) operator.
- Create and manage custom instance types, templates, and boot sources to provision virtual machines.
- Control the placement of virtual machines on cluster nodes by using Kubernetes resources, and rebalance virtual machine workloads across cluster nodes by enabling descheduler evictions.
- Implement high-availability virtual machines that are resilient to failures, planned maintenance, and cluster upgrades by configuring Kubernetes resources.

Who Needs to Attend

- Virtual Machine Administrators who are looking to migrate workloads from traditional hypervisors to OpenShift Virtualization.
- Platform Engineers, Cloud Administrators, and System Administrators who are interested in supporting virtualized workloads, either independently from or in the same OpenShift cluster as containerized workloads.

Prerequisites

- **Red Hat OpenShift Virtualization Administration I: Operating Virtual Machines (DO156):** Although Linux skills are not required for managing OpenShift clusters and OpenShift Virtualization, operating individual Linux VMs requires Linux system administration skills that the following courses provide:
- **Red Hat System Administration I (RH124) and Red Hat System Administration II (RH134)** for managing the OS inside a Linux VM or Red Hat CSA (RHCSA) Rapid Track (RH199)

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	$4,760 CAD	1 Session

Virtual Classroom Live Outline

- **Authentication and Authorization for Virtual Machines to Red Hat OpenShift Virtualization**
  - Understand OpenShift OAuth server concepts and custom resources, including their function in Kubernetes authentication, and define and implement role-based access controls and user permissions.
- **Advanced Networking for Virtual Machines in Red Hat OpenShift Virtualization**
  - Enable comprehensive and flexible networking for nodes and virtual machines within an OpenShift environment.
- **Migrating Virtual Machines to Red Hat OpenShift Virtualization**
  - Migrate virtual machines from another hypervisor to Red Hat OpenShift Virtualization by using the migration toolkit for virtualization (MTV) operator.
- **Creating and Restoring Backups of Virtual Machines in Red Hat OpenShift Virtualization**
  - Backup and restore virtual machines by using the OpenShift APIs for Data Protection (OADP) operator.
- **Creating Custom Instance Types, Templates, and Boot Sources in Red Hat OpenShift Virtualization**
  - Create and manage custom instance types, templates, and boot sources to provision virtual machines.
- **Controlling Scheduling of Virtual Machines in Red Hat OpenShift Virtualization**
  - Control the placement of virtual machines on cluster nodes by using Kubernetes resources, and rebalance virtual machine workloads across cluster nodes by enabling descheduler evictions.
- **Configuring High Availability for Virtual Machines in Red Hat OpenShift Virtualization**

- Implement high-availability virtual machines that are resilient to failures, planned maintenance, and cluster upgrades by configuring Kubernetes resources.

Virtual Classroom Live Labs

- Labs are provided by RedHat for this course

Jul 20 - 22, 2026 | 10:30 AM - 6:30 PM EDT

Aug 31 - Sep 2, 2026 | 10:30 AM - 6:30 PM EDT

Sep 28 - 30, 2026 | 10:30 AM - 6:30 PM EDT

Nov 30 - Dec 2, 2026 | 10:30 AM - 6:30 PM EST

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RED HAT OPENSHIFT VIRTUALIZATION ADMINISTRATION II: CONFIGURING PRODUCTION VIRTUAL MACHINES (DO256)

Course Code: 832031

ON-DEMAND	$4,760 CAD

On-Demand Outline

- **Authentication and Authorization for Virtual Machines to Red Hat OpenShift Virtualization**
  - Understand OpenShift OAuth server concepts and custom resources, including their function in Kubernetes authentication, and define and implement role-based access controls and user permissions.
- **Advanced Networking for Virtual Machines in Red Hat OpenShift Virtualization**
  - Enable comprehensive and flexible networking for nodes and virtual machines within an OpenShift environment.
- **Migrating Virtual Machines to Red Hat OpenShift Virtualization**
  - Migrate virtual machines from another hypervisor to Red Hat OpenShift Virtualization by using the migration toolkit for virtualization (MTV) operator.
- **Creating and Restoring Backups of Virtual Machines in Red Hat OpenShift Virtualization**
  - Backup and restore virtual machines by using the OpenShift APIs for Data Protection (OADP) operator.
- **Creating Custom Instance Types, Templates, and Boot Sources in Red Hat OpenShift Virtualization**
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- Implement high-availability virtual machines that are resilient to failures, planned maintenance, and cluster upgrades by configuring Kubernetes resources.

On-Demand Labs

- Labs are provided by RedHat for this course

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

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