

## Red Hat OpenShift Virtualization Administration II: Configuring Production Virtual Machines (DO256)

Duration: 3 Days Course Code: DO256

### Overview:

#### 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* addresses critical challenges in managing virtual machines in Red Hat OpenShift Virtualization.

OpenShift Virtualization enables organizations to realize operational savings by managing virtualized workloads and containerized workloads together by using the same orchestration and clustering infrastructure from Red Hat OpenShift.

IT professionals will learn to deploy and manage production-ready virtualized workloads on OpenShift.

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.

**Note:** 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.*

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### Target Audience:

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.

### Objectives:

- After this course participants 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.
- Back up 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.

### 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

### Testing and Certification

- Red Hat Certified Specialist in OpenShift Virtualization Exam (EX316) might be a certification option

courses provide:

- Red Hat System Administration I (RH124) and Red Hat System Administration II (RH134) for managing the OS inside a Linux VM. Take Red Hat free assessment to gauge whether this offering is the best fit for your skills [Red Hat Skills Assessment](#)

### Follow-on-Courses:

- Red Hat Certified Specialist in OpenShift Virtualization Exam (EX316)
- VM Administrators for OpenShift Virtualization require deeper Kubernetes and OpenShift skills than DO256 provides, even if these individuals will not manage containerized, cloud-native applications, and these skills are provided by existing OpenShift Administration courses:
- Red Hat OpenShift Administration I: Operating a Production Cluster (DO180) is a recommended precursor or follow-up course for deploying and managing workloads in OpenShift clusters.
- Red Hat OpenShift Administration II: Configuring a Production Cluster (DO280) is a recommended precursor or follow-up course for security and resource management of OpenShift projects.
- Red Hat OpenShift Administration III: Scaling Kubernetes Deployments in the Enterprise (DO380) and Enterprise Kubernetes Storage with Red Hat OpenShift Data Foundation (DO370) are recommended follow-up courses for node, storage, and security management of OpenShift clusters.
- Red Hat OpenShift Installation Lab (DO322) is a recommended follow-up course for installing and configuring OpenShift clusters.

### Content:

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

Back up 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

### Additional Information:

Official course book provided to participants

### Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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