Red Hat OpenShift Virtualization Administration I: Operating Virtual Machines (DO156)

Duration: 3 Days **Course Code: DO156**

Overview:

Create and manage virtual machines by using the Red Hat OpenShift Virtualization operator.
Red Hat OpenShift Virtualization Administration I: Operating Virtual Machines teaches the essential skills required to create and manage virtual machines (VMs) on OpenShift by using the Red Hat OpenShift Virtualization operator.
OpenShift Virtualization enables organizations to realize operational savings by managing virtualized workloads and containerized workloads together using the same orchestration and clustering infrastructure provided by Red Hat OpenShift.
IT professionals will learn to deploy and manage virtualized workloads on OpenShift.
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.
Updated Jan2026

Target Audience:

Virtual Machine Administrators who are looking to virtualize 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:
- Describe the underlying Kubernetes architecture that supports OpenShift and how to access and identify key OpenShift cluster services by using both the web console and command-line utilities.
- Deploy the OpenShift Virtualization operator and examine the configuration options for the operator.
- Create, manage, and monitor virtual machines in Red Hat OpenShift Virtualization.
- Use comprehensive and flexible networking for virtual machines within an OpenShift environment.
- Configure and manage persistent storage for virtual machines, protect VM data through snapshots, export and import virtual machine images, and efficiently create virtual machine golden images by using cloning within a Red Hat OpenShift Virtualization environment.

Prerequisites:

- This course requires no previous experience with containers, Kubernetes, and OpenShift, however, learners are encouraged to attend, before taking DO156, Containers, Kubernetes and Red Hat OpenShift Technical Overview (DO080).
- Although Linux skills are not required for managing OpenShift clusters and OpenShift Virtualization, operating individual Linux VMs requires Linux system administration skills that the Red Hat System Administration I (RH124) and Red Hat System Administration II (RH134) courses provide.
- Learners are encouraged to attend Red Hat OpenShift Virtualization Technical Overview (DO016), before taking DO156.

Take Red Hat free assessment to gauge whether this offering is

Testing and Certification

the best fit for your skills Red Hat Skills Assessment

Follow-on-Courses:

- VM administrators for OpenShift Virtualization require deeper Kubernetes and OpenShift skills:
- To provide production-ready virtual machines than DO156 provides, and these skills are provided in Red Hat OpenShift Virtualization Administration II: Configuring Production Virtual Machines course (DO256).
- VM administrators for OpenShift Virtualization, may require OpenShift Administration courses:
- Red Hat OpenShift Administration I: Operating a Production Cluster (DO180) is a recommended follow-up course for deploying and managing workloads in OpenShift clusters.
- Red Hat OpenShift Administration II: Configuring a Production Cluster (DO280) is a recommended 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.
- DO256 - Red Hat OpenShift Virtualization Administration II: Configuring Production Virtual Machines (DO256)

Content:

Introduction to Kubernetes and OpenShift

Describe the underlying Kubernetes architecture that supports OpenShift and how to access and identify key OpenShift cluster services by using both the web console and command-line utilities

Introduction to Red Hat OpenShift Virtualization

Deploy the OpenShift Virtualization operator and examine the configuration options for the operator.

Creating, Managing, and Monitoring Virtual Machines in Red Hat OpenShift Virtualization

Create, manage, and monitor virtual machines in Red Hat OpenShift Virtualization.

Managing Virtual Machine Networking in Red Hat OpenShift Virtualization

Use comprehensive and flexible networking for virtual machines within an OpenShift environment.

Managing Storage for Virtual Machines in Red Hat OpenShift Virtualization

Configure and manage persistent storage for virtual machines, protect VM data through snapshots, export and import virtual machine images, and efficiently create golden images for virtual machines by using cloning within a Red Hat OpenShift Virtualization environment

Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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