



RED HAT TRAINING

Managing Vm Red Hat Openshift Virtualization Course

Master Red Hat OpenShift Virtualization to manage virtual machines on OpenShift, enabling efficient cloud-native infrastructure.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

This intensive "Managing Vm Red Hat OpenShift Virtualization Course" is designed for IT professionals seeking to bridge the gap between traditional virtualized environments and modern cloud-native platforms. You will master the integration of virtual machines (VMs) directly into your Red Hat OpenShift clusters, leveraging the power of KubeVirt to manage traditional workloads alongside containers. This course equips you with the essential skills to deploy, manage, and troubleshoot virtual machines within a Kubernetes-native framework, transforming how your organization handles hybrid cloud infrastructure.

By completing this course, you will gain the proficiency to consolidate your compute resources, streamline operations, and accelerate the modernization of legacy applications. You'll learn to provision, network, and store VMs using OpenShift's robust capabilities, enabling a unified management plane for both containers and VMs. This expertise is crucial for organizations looking to optimize their hybrid cloud strategies, reduce operational complexity, and enhance application portability across diverse IT environments.

Duration	2 hours
Level	Intermediate
Vendor	Red Hat

COURSE CURRICULUM

01 Module 1: Introduction to OpenShift Virtualization

- Understanding KubeVirt architecture and its role
- Benefits of integrating VMs with OpenShift
- Deploying the OpenShift Virtualization operator
- Core components: VirtualMachine and VirtualMachineInstance

02 Module 2: Deploying and Managing Virtual Machines

- Creating and configuring VirtualMachine objects
- Specifying CPU, memory, and disk resources
- Configuring virtual networks (NADs) for VMs
- Attaching persistent storage to virtual machines

03 Module 3: Advanced Virtual Machine Operations

- Performing live migrations of virtual machines
- Creating and restoring VM snapshots
- Developing and utilizing VM templates
- Automating VM lifecycle management

04 Module 4: Integrating VMs with OpenShift Services

- Exposing VM applications via OpenShift Routes and Services
- Managing VM access with OpenShift RBAC
- Running containers alongside VMs in the same namespace
- Utilizing OpenShift Operators for VM management

05 Module 5: Monitoring and Troubleshooting Virtualization

- Monitoring VM health and performance metrics
- Troubleshooting common VM deployment issues
- Analyzing KubeVirt and OpenShift logs

- Diagnosing network and storage connectivity problems for VMs

06 Module 6: Security and Best Practices for VMs on OpenShift

- Implementing security policies for virtual machines
- Network segmentation and firewall rules
- Backup and disaster recovery strategies for VMs
- Optimizing performance for virtualized workloads

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > Hybrid Cloud Administrator
- > Kubernetes Platform Engineer
- > Virtualization Solutions Architect

FREQUENTLY ASKED QUESTIONS

Q: What foundational knowledge or experience is recommended before enrolling in this Red Hat OpenShift Virtualization course?

Participants should have a solid understanding of Kubernetes and OpenShift fundamentals, including core concepts like Pods, Deployments, Services, and basic cluster administration. Familiarity with virtualization concepts and traditional hypervisors (e.g., VMware vSphere, KVM) will also be highly beneficial for grasping the unique integration approach of OpenShift Virtualization.

Q: How will learning OpenShift Virtualization differentiate my skills from traditional virtualization administration or pure container orchestration roles?

This course equips you with the unique ability to manage both containerized and virtualized workloads from a single, unified control plane within OpenShift. You'll gain expertise in leveraging Kubernetes-native APIs for VM lifecycle management, enabling you to accelerate hybrid cloud adoption and legacy application modernization. This skill set is critical for organizations transitioning to a more cloud-native infrastructure while still relying on existing VM-based applications.

Q: Can I deploy any type of virtual machine or operating system using Red Hat OpenShift Virtualization, and what are its typical use cases?

Red Hat OpenShift Virtualization supports a wide range of guest operating systems, including various Linux distributions and Windows versions, allowing you to run almost any existing VM workload. Typical use cases include modernizing monolithic applications by moving them to OpenShift without full containerization, running specialized workloads that require a VM (e.g., specific kernels, nested virtualization), and consolidating management of diverse application stacks on a single platform.

ABOUT COMPUTER PRIDE



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With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

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READY TO ENROL?

Take the next step in your technology career.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke