

Managing Virtual Machines with Red Hat OpenShift Virtualization with Exam (DO317),

Duration: 5 Days Course Code: DO317 Delivery Method: Virtual Classroom

Overview:

Create and manage virtual machines on OpenShift using the Red Hat OpenShift Virtualization operator

Managing Virtual Machines with OpenShift Virtualization teaches the essential skills required to create and manage virtual machines (VM) on OpenShift using the Red Hat OpenShift Virtualization operator. This course does not require previous knowledge of containers and Kubernetes.

This course provides:

- Skills required to create, access, and manage VMs on OpenShift clusters.
- Skills required to control usage and access of cpu, memory, storage, and networking resources from VMs using the same Kubernetes features that would also control usage and access to these resources for containers.
- Sample architectures to manage High Availability (HA) of VMs using standard Kubernetes features and extensions from OpenShift Virtualization.
- Strategies to connect VMs on OpenShift to data center services outside of their OpenShift cluster, such as storage and databases.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

- Virtual Machine Administrators interested in moving virtualized workloads from traditional Hypervisors to OpenShift Virtualization
- Kubernetes Administrators (Cluster Administrators, Clusters Engineers) interested in supporting containerized and virtualized workloads in the same OpenShift cluster
- Site Reliability Engineers interested in using GitOps and Ansible Automation to manage Virtual Machines on OpenShift

Objectives:

- Create VMs from installation media and disk images
- Access text and graphical consoles of a VM
- Connect to VMs using Kubernetes networking (services, ingress, and routes)
- Provision storage to VMs using Kubernetes storage (PVC, PV, and storage classes)
- Start, pause, and stop VMs
- Clone and snapshot VMs
- Connect VMs to external and extra networks (outside of the Kubernetes pod and service networks)
- Provision load balancer services for VMs and then use the services to enable SSH access to VMs
- Connect VMs to host storage and external storage
- Create VMs from VM Templates
- Migrate VMs from compatible hypervisors

Prerequisites:

- DO180 - Red Hat OpenShift Administration I: Operating a Production Cluster

Follow-on-Courses:

- DO280 - Red Hat OpenShift Administration II: Configuring a Production Cluster
- DO316 - Managing Virtual Machines with Red Hat OpenShift Virtualization
- DO322 - Red Hat OpenShift Installation Lab
- DO370 - Enterprise Kubernetes Storage with Red Hat OpenShift Data Foundation
- DO380 - Red Hat OpenShift Administration III: Scaling Deployments in the Enterprise
- RH124 - System Administration I
- RH134 - System Administration II
- RH295 - Red Hat Enterprise Linux Automation with Ansible and exam

Content:

Introduction to OpenShift Virtualization	Connect Virtual Machines to external networks	Advanced Virtual Machine management
Describe the features and use cases of OpenShift Virtualization.	Configure node networking to connect virtual machines and nodes to networks outside the cluster.	Import, export, snapshot, clone, and live migrate a virtual machine and initiate node maintenance.
Run and access Virtual Machines		
Create, manage, inspect, and monitor virtual machines in Red Hat OpenShift Virtualization.	Configure Kubernetes storage for Virtual Machines	Configure Kubernetes high availability for Virtual Machines
Configure Kubernetes network for Virtual Machines	Manage storage and disks for VMs in Red Hat OpenShift.	Configure Kubernetes resources to implement high availability for virtual machines.
Configure standard Kubernetes network objects and external access for VMs and virtual machine-backed applications.	Virtual Machine template management	
	Create and manage templates to provision virtual machines.	

Additional Information:

Technology considerations

All deliveries require access to ROLE for the remote classroom environment. There is no local ILT version of the DO316 classroom

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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