

Managing Virtual Machines with Red Hat OpenShift Virtualization (DO316)

ID DO316 Prix 4 675,— € (Hors Taxe) Durée 5 jours

A qui s'adresse cette formation

- Virtual Machine Administrators who want to virtualize workloads from traditional Hypervisors to OpenShift Virtualization
- Platform Engineers, Cloud Administrators, and System Administrators who want to support virtualized workloads, either independently from or in the same OpenShift cluster as containerized workloads

Cette formation prépare à la/aux certifications

Red Hat Certified Specialist in OpenShift Data Virtualization (RHSC-OSDV)

Pré-requis

- RH-DO180 is recommended but not required
- Linux skills are not required to manage OpenShift clusters and OpenShift Virtualization but managing individual Linux VMs requires Linux sysadmin skills provided by:
 - [Red Hat System Administration I \(RH124\)](#) and [Red Hat System Administration II \(RH134\)](#) for managing the OS inside a Linux VM.

Objectifs

Impact on the organization

OpenShift Virtualization allows 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.

Deploying Virtual Machines (VMs) on OpenShift also eases integration of traditional server-based applications with more modern cloud-native applications and their supporting practices such as CI/CD, DevOps, and SRE to take advantage of quicker time-to-market and other benefits from these practices, without having to first redesign virtualized workloads as container-native workloads.

Impact on the individual

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

Contenu

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
- Strategies to migrate VMs from compatible hypervisors to OpenShift Virtualization by using the Migration Toolkit for Virtualization operator

Course content summary

- 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,

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- PV, and storage classes)
- Start, pause, and stop VMs
- Clone and snapshot VMs
- Create and seal golden VM images
- 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 predefined and custom VM Templates and InstanceTypes
- Migrate VMs from compatible hypervisors
- Back up and restore VMs by using OADP and command-line tools

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Centres de formation dans le monde entier



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