

Managing Virtual Machines with Red Hat OpenShift Virtualization and exam

Kód kurzu: D0317

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.

The Red Hat Certified Specialist in OpenShift Virtualization exam (EX316) is included in this offering.

Pobočka	Dnů	Cena kurzu	ITB
Praha	5	3 444 €	0
Brno	5	3 444 €	0
Bratislava	5	3 444 €	0

Uvedené ceny jsou bez DPH.

Termíny kurzu

Datum	Dnů	Cena kurzu	Typ výuky	Jazyk výuky	Lokalita
09.03.2026	5	3 444 €	Online	EN	Red Hat - Online

Uvedené ceny jsou bez DPH.

Pro koho je kurz určen

- 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.

Co Vás naučíme

- 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).
- Connect VMs to host storage and external storage.
- Ansible management of VMs.
- Create VMs from VM Templates.

Požadované vstupní znalosti

Red Hat OpenShift I: Containers & Kubernetes (D0180) is recommended but not required.

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Studijní materiály

Studijní materiál Red Hat.

Osnova kurzu

Introduction to OpenShift Virtualization

Describe the features and use cases of OpenShift Virtualization.

Run and access Virtual Machines

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

Configure Kubernetes network for Virtual Machines

Configure standard Kubernetes network objects and external access for VMs and virtual machine-backed applications.

Connect Virtual Machines to external networks

Configure node networking to connect virtual machines and nodes to networks outside the cluster.

Configure Kubernetes storage for Virtual Machines

Manage storage and disks for VMs in Red Hat OpenShift.

Virtual Machine template management

Create and manage templates to provision virtual machines.

Advanced Virtual Machine management

Snapshot, clone, and live migrate a virtual machine and initiate node maintenance.

Configure Kubernetes high availability for Virtual Machines

Configure Kubernetes resources to implement high availability for virtual machines.

Co musíte vědět

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 and manage these workloads using both traditional ways, such as SSH and Ansible, and also modern DevOps practices, such as GitOps and CI/CD.

Recommended next course or exam

VM Administrators using OpenShift Virtualization require deeper Kubernetes and OpenShift skills than provided by DO316, even if they do not intend to manage containerized, cloud-native applications, and these skills are provided by existing OpenShift Administration courses:

- Red Hat OpenShift Administration II: Operating a Production Kubernetes Cluster (DO280) is also 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.

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- Red Hat OpenShift Installation Lab (D0322) is a recommended follow-up course for installing and configuring OpenShift clusters.

Linux skills are not required to managing 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.
- Red Hat Linux Automation with Ansible and exam (RH295) for using Ansible to manage the OS inside a Linux VM.

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