Migrating Virtual Machines to Red Hat OpenShift Virtualization with Ansible Automation Platform

Course code: DO346

As of January 2026, only in-person Red Hat training is available for purchase under the original terms. Virtual training (VT) courses are offered exclusively as part of the annual RHLS Course subscription can be found here.How to schedule a virtual course in the Red Hat Learning Subscription can be found here.Learn the essential skills to migrate virtual machines to Red Hat OpenShift Virtualization.Migrating Virtual Machines to Red Hat OpenShift Virtualization with Ansible Automation Platform (DO346) provides the essential knowledge to migrate virtual machines to Red Hat OpenShift Virtualization by using carefully selected content from Managing Virtual Machines in Red Hat OpenShift Virtualization (DO316) and Automate and Manage Red Hat OpenShift Virtualization with Ansible (DO336). This course provides a shorter learning path for IT professionals to migrate their virtualized workloads to OpenShift Virtualization. This course is based on OpenShift Container Platform 4.16, OpenShift Virtualization 4.16, and Ansible Automation Platform 2.4.

Who is the course for

- Virtual Machine Administrators who are interested in moving virtualized workloads from traditional hypervisors to OpenShift Virtualization
- Kubernetes Administrators (Cluster Administrators and Cluster Engineers) who are interested in supporting containerized and virtualized workloads in the same OpenShift cluster

What we teach you

- Deploying the OpenShift Virtualization operator in an existing Red Hat OpenShift environment
- Configuring node networking to connect virtual machines and nodes to networks outside the cluster by using Multus CNI plug-ins and the NMState operator
- Managing storage and disks for virtual machines in Red Hat OpenShift
- Migrating virtual machines from another hypervisor to Red Hat OpenShift Virtualization by using the migration toolkit for virtualization operator and Ansible Automation Platform

This course provides the following information and skills:

- An introduction to key OpenShift and Kubernetes concepts, such as nodes, pods, and operators
- Skills to deploy the OpenShift Virtualization operator
- Skills to configure networking and storage for virtual machines
- Strategies to migrate virtual machines from another hypervisor to OpenShift Virtualization by using the migration toolkit for virtualization operator and Ansible Automation Platform

Required skills

Take our free assessment to gauge whether this offering is the best fit for your skills

This course requires no previous experience with containers, Kubernetes, OpenShift, or OpenShift Virtualization;

however, learners are encouraged to attend the following courses, before taking DO346:

- Containers, Kubernetes and Red Hat OpenShift Technical Overview (DO080)
- Red Hat OpenShift Virtualization Technical Overview (DO016)
- Ansible Basics: Automation Technical Overview (DO007)

Although Linux skills are not required for managing OpenShift clusters and OpenShift Virtualization, operating individual

Linux VMs requires Linux system administration skills that the following courses provide:

- Red Hat System Administration I (RH124)
- and
- Red Hat System Administration II (RH134)
- for managing the operating system inside a Linux VM

Course outline

Red Hat OpenShift Virtualization

Distinguish Red Hat OpenShift Virtualization from container technologies and from traditional virtual machine

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technologies. Describe the features and use cases of OpenShift Virtualization. Deploy the OpenShift Virtualization operator in an existing Red Hat OpenShift environment.

Configuring Networking for Virtual Machines

Configure standard Kubernetes network objects for virtual machines and virtual machine-backed applications. Configure node networking to connect virtual machines and nodes to networks outside the cluster by using Multus CNI plug-ins and the NMState operator.

Configuring Storage for Virtual Machines

Manage storage and disks for virtual machines in Red Hat OpenShift by using Kubernetes.

Migrating Virtual Machines to Red Hat OpenShift Virtualization

Migrate virtual machines from a compatible hypervisor to Red Hat OpenShift Virtualization by using the migration toolkit for virtualization (MTV) operator and the Ansible Automation Platform (AAP) operator.

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