# Automate and Manage Red Hat OpenShift Virtualization with Ansible (DO336) Training

Duration: **3 Day**

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## Overview

**Automate the migration and lifecycle management of virtual machines in OpenShift Virtualization using Red Hat Ansible Automation Platform.**

The **Automate and Manage Red Hat OpenShift Virtualization with Ansible (DO336)** course provides virtual machine and system administrators with the essential knowledge to automate the migration and management of virtual machines (VMs) in **Red Hat OpenShift Virtualization**.
Using **Red Hat Ansible Automation Platform**, students will learn to streamline VM deployment, automate day-2 operations, and orchestrate full VM lifecycle management across hybrid environments.

This course combines practical automation skills with OpenShift's cloud-native infrastructure, giving participants the ability to deploy, configure, and manage the **Ansible Automation Platform operator, automation controller, and private automation hub** within OpenShift clusters.

*This course is based on Red Hat OpenShift 4.16 and Red Hat Ansible Automation Platform 2.4.*

## Who Should Attend

This course is intended for:

- **Virtual Machine Administrators** migrating workloads from legacy hypervisors to OpenShift Virtualization.
- **System Administrators, Enterprise Architects, and Automation Engineers** designing or maintaining automated VM management environments.

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## What You Will Learn

By the end of this course, you will be able to:

- Explain the **architecture, use cases, and core concepts** of Ansible and the Ansible Automation Platform.
- Deploy and configure the **Ansible Automation Platform operator, automation controller, and private automation hub** in a Red Hat OpenShift environment.
- **Migrate VMs** from traditional hypervisors to OpenShift Virtualization using the **Migration Toolkit for Virtualization (MTV)** and Ansible automation workflows.
- Automate **day-2 lifecycle operations**—such as provisioning, scaling, configuration, and maintenance of virtual machines and associated Kubernetes resources.

### Impact on the Organization

Organizations migrating from traditional virtualization platforms can use Ansible Automation Platform as a **modern, unified automation solution** to manage OpenShift Virtualization environments. Benefits include:

- **Reduced operational overhead** by automating repetitive tasks.
- **Consistent and reliable migrations** from legacy hypervisors like VMware or KVM.
- **Streamlined VM lifecycle management** through reusable Ansible Playbooks and collections.
- **Integration with Kubernetes-native tools** for scalability and resilience.

This course helps teams replace outdated tools such as vRealize Orchestrator with a Red Hat-supported automation framework.

### Impact on the Individual

By completing this course, you will gain the skills to:

- Deploy and configure **Ansible Automation Platform operators** within OpenShift clusters.
- Use **Ansible Playbooks and collections** to automate VM provisioning, configuration, and maintenance.
- Migrate VMs from other hypervisors to OpenShift Virtualization efficiently.
- Manage and monitor the **entire lifecycle** of virtual machines using automation best practices.

Students completing this course will be equipped to **automate and manage OpenShift Virtualization environments at scale**, leveraging Red Hat's leading automation technologies.

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## Outline

**1. Introducing Red Hat Ansible Automation Platform**
Understand the need for automation, the foundational concepts of Ansible, and the architecture and use cases of Ansible Automation Platform in an OpenShift environment.

**2. Deploying and Configuring the Ansible Automation Platform Operator**
Deploy and configure the **Ansible Automation Platform operator, automation controller, and automation hub instance** within a Red Hat OpenShift Container Platform cluster.

**3. Migrating Virtual Machines to OpenShift Virtualization using Ansible**
Migrate existing virtual machines from a compatible hypervisor to **Red Hat OpenShift Virtualization** using **Ansible Automation Platform** and the **Migration Toolkit for Virtualization (MTV)** operator.

**4. Automating Day-2 Operations for Virtual Machines**
Automate common post-deployment (Day-2) tasks such as provisioning, scaling, configuring compute and network resources, and managing application workloads in OpenShift Virtualization.