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.