# Multicluster Management with Red Hat Advanced Cluster Management for Kubernetes (DO432) Training

Duration: **3 Day**

BILGINÇ IT Academy
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## Overview

Gain the skills to **securely manage, monitor, and automate multicluster Kubernetes environments** using **Red Hat Advanced Cluster Management for Kubernetes (RHACM)** .

This course equips IT professionals with the knowledge to **govern, observe, and optimize** multiple Kubernetes and OpenShift clusters through **automation, compliance enforcement, and GitOps practices**.

You'll learn how to:

- Centralize management of multiple clusters,
- Enforce organization-wide governance and security standards, and
- Streamline application and virtual machine deployment at scale.

*This course is based on Red Hat Advanced Cluster Management for Kubernetes (RHACM).*

## Prerequisites

Completion of **Red Hat OpenShift Administration II (DO280)** or equivalent Kubernetes experience.

Optional but recommended courses:

- **Red Hat OpenShift Administration III (DO380)** for enterprise-scale deployments.
- **Managing Virtual Machines with Red Hat OpenShift Virtualization (DO316)** for VM lifecycle automation.

## Who Should Attend

This course is ideal for:

- **IT Operations teams** managing large-scale, distributed Kubernetes environments.
- **DevOps and SRE engineers** responsible for uptime, automation, and resource governance.
- **Security professionals** enforcing compliance across hybrid and multicloud clusters.

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## What You Will Learn

- Describe and implement the **RHACM architecture** and components following best practices.
- Import, register, and manage clusters via the **RHACM web console**, including user access and troubleshooting.
- Deploy and enforce **compliance policies** across clusters with RHACM governance.
- Monitor performance and resolve issues using the **observability stack**.
- Automate **application and VM lifecycle management** using **GitOps workflows**.

### Impact on the Organization

Organizations expanding their **Kubernetes and container adoption** can use RHACM to:

- Ensure **consistent governance and security enforcement** across hybrid environments.
- Automate **cluster and application lifecycle management** at scale.
- Improve **operational efficiency and policy compliance** from a single, unified console.
- Reduce administrative overhead by centralizing configuration and observability.

By standardizing automation and security, RHACM helps enterprises accelerate containerized workload management with reliability and control.

### Impact on the Individual

After completing this course, participants will:

- Gain the ability to **manage and secure multiple Kubernetes clusters** using RHACM.
- Implement **GitOps-driven automation** for multicluster applications and VMs.
- Assess compliance using **industry benchmarks** and automate remediation.
- Design and enforce **security and governance policies** for hybrid and multicloud environments.

You'll graduate with the confidence to manage enterprise-scale Kubernetes operations with **Red Hat Advanced Cluster Management** efficiently and securely.

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## Outline

**1. Installing Red Hat Advanced Cluster Management for Kubernetes**
Understand RHACM architecture, components, and installation best practices.

**2. Managing Clusters with RHACM**
Import, organize, and configure clusters using the web console. Manage user access and resolve import-related issues.

**3. Governance and Policy Management**
Deploy compliance policies, enforce governance rules, and ensure consistency across all managed clusters.

**4. Observability and Monitoring**
Configure observability to track performance, uptime, and health of multicluster environments.

**5. Multicluster Application Management with GitOps**
Deploy and synchronize applications across clusters using GitOps automation and pipelines.

**6. Managing Virtual Machines with RHACM and GitOps**
Deploy, scale, and monitor virtual machines in multicluster Kubernetes environments.