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

Duration: **3 Day**

BILGINC 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.