Multicluster Management with Red Hat Advanced Cluster Management for Kubernetes

Course code: DO432

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.Address challenges with management, compliance, and productivity of a multicluster Kubernetes environment and its applications by using the capabilities of Red Hat Advanced Cluster Management for Kubernetes.

Who is the course for

- IT Operations
- personnel who are responsible for managing the lifecycle and monitoring the usage of multiple clusters.
- DevOps and Site Reliability Engineers
- who are responsible for monitoring the health of clusters and Kubernetes deployments and for maximizing their uptime. These individuals also automate the provisioning or deprovisioning of clusters and the workload placement based on capacity and policy.
- Security Operations
- personnel who are responsible for ensuring that Kubernetes deployments comply with regulatory and organizational standards. These individuals create security policies across diverse environments and ensure enforcement.

What we teach you

Multicluster Management with Red Hat Advanced Cluster Management for Kubernetes (RHACM) teaches the required skills to manage a fleet of containerized applications and Kubernetes clusters, by automating compliance with security, governance, and other organization policies, and by implementing GitOps practices.

- Describe and implement the RHACM architecture and its components, and follow recommended practices for its installation.
- Import and manage a cluster by using the RHACM web console, configure user access to clusters, and troubleshoot common import issues.
- Deploy and manage policies in a multicluster environment by using RHACM governance.
- Monitor a fleet of managed clusters and troubleshoot performance and availability issues by using RHACM observability components.
- Deploy and manage applications in a multicluster environment by using RHACM and GitOps.
- Deploy and manage virtual machines in a multicluster environment by using RHACM and GitOps.

Required skills

- Take our free assessment
- to gauge whether this offering is the best fit for your skills.
- Completing
- Red Hat OpenShift Administration II: Configuring a Production Kubernetes Cluster (DO280)
- and
- Red Hat Certified OpenShift Administrator exam (EX280)
- are strongly encouraged, or possessing equivalent Kubernetes and OpenShift administration skills.

The following optional courses are recommended:

- Red Hat OpenShift Administration III: Scaling Deployments in the Enterprise (DO380)
- is a course on how to configure and manage OpenShift clusters at scale to address increasing and complex demands from applications and to ensure reliability, performance, and availability.
- Managing Virtual Machines with Red Hat OpenShift Virtualization (DO316)
- covers the essential skills to create and manage virtual machines on OpenShift by using the Red Hat OpenShift Virtualization operator.

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Teaching materials

For virtual, self-paced, and classroom learners:

- Internet access is required
- Labs are performed in Red Hat's Online Learning Environment
- For classroom learners, Red Hat may make available in the future a locally installed classroom environment as an alternative.

Following course completion, hands-on lab access will remain available for up to 45 days for any live course that includes a virtual environment.

This course is offered as a 3-day in-person class, a 4-day virtual class, or self-paced. Durations might vary based on the delivery. For full course details, scheduling, and pricing, select your location and then select "get started" on the right menu.

Course outline

Installing Red Hat Advanced Cluster Management for Kubernetes

- Describe and implement the RHACM architecture and its components, and follow recommended practices for its installation.

Managing Clusters by Using Red Hat Advanced Cluster Management for Kubernetes

- Import and manage a cluster by using the RHACM web console, configure user access to clusters, and troubleshoot common import issues.

Deploying and Managing Policies for Multiple Clusters with Red Hat Advanced Cluster Management for Kubernetes

- Deploy and manage policies in a multicluster environment by using RHACM governance.

Enabling and Customizing the Red Hat Advanced Cluster Management for Kubernetes Observability Stack

- Monitor a fleet of managed clusters and troubleshoot performance and availability issues by using RHACM observability components.

Managing the Multicluster Application Lifecycle by Using GitOps Practices and Red Hat Advanced Cluster Management for Kubernetes

- Deploy and manage applications in a multicluster environment by using RHACM and GitOps.

Managing Virtual Machines for Multiple Clusters with Red Hat Advanced Cluster Management for Kubernetes

- Deploy and manage virtual machines in a multicluster environment by using RHACM and GitOps.

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