

DO481

Multicluster Management with Red Hat OpenShift Platform Plus and exam

Course description

Enhance container management capabilities with automation, governance, and security across clusters.

Multicluster Management with Red Hat OpenShift Platform Plus teaches the skills required to maintain a diverse portfolio of applications, running across a fleet of OpenShift clusters. Applications follow placement rules determined by capacity and criticality; cluster configurations comply with governance and security policies; all automated according to DevOps principles.

This course is based on Red Hat OpenShift Container Platform 4.10 and Red Hat Advanced Cluster Management 2.4. The [Red Hat Certified Specialist in MultiCluster Management exam \(EX480\)](#) is included in this offering.

Prerequisites for this course

- [Take our free assessment](#) to gauge whether this offering is the best fit for your skills.
- Complete [Red Hat OpenShift Administration II: Operating a Production Kubernetes Cluster \(DO280\)](#) and [Red Hat Certified Specialist in OpenShift Administration exam \(EX280\)](#) or possess equivalent basic Kubernetes and OpenShift administration skills
- The following are recommended, but optional:
 - [Red Hat OpenShift Administration III: Scaling Kubernetes Deployments in the Enterprise \(DO380\)](#) is a course teaching cluster-wide configuration, logging, and monitoring, Ansible automation with OpenShift
 - [Red Hat OpenShift Installation Lab \(DO322\)](#) teaches you how to install OpenShift using IPI and UPI
 - Understand Ansible basics, including, writing and running simple playbooks or equivalent experience

Outline for this course

Manage a Multicluster Kubernetes Architecture

Describe multicluster architectures and use Red Hat OpenShift Platform Plus to solve their challenges.

Inspect Resources from Multiple Clusters Using the RHACM Web Console

Describe and navigate the Red Hat Advanced Cluster Management for Kubernetes (RHACM) web console. Configure role-based access control (RBAC) and search for resources across multiple clusters by using the RHACM search engine.

Deploy and Manage Policies for Multiple Clusters with RHACM

Deploy and manage policies in a multicluster environment by using Red Hat Advanced Cluster Management for Kubernetes (RHACM) governance.

Install and Customize the RHACM Observability Stack

Gain insight into the fleet of managed clusters by using Red Hat Advanced Cluster Management for Kubernetes (RHACM) observability components.

Deploy Applications Across Multiple Clusters with RHACM

Deploy and manage applications in a multicluster environment with Red Hat Advanced Cluster Management for Kubernetes GitOps.

Install and Configure Red Hat Quay

Install and configure Red Hat Quay on Red Hat OpenShift Container Platform (RHOCP).

Integrate Red Hat Quay with Red Hat OpenShift and RHACM

Describe Red Hat Quay use cases in a multicluster environment, and use Red Hat Advanced Cluster Management for Kubernetes (RHACM) to deploy applications and control the image sources allowed in the cluster fleet.

Install and Configure RHACS

Install and configure Red Hat Advanced Cluster Security for Kubernetes (RHACS) and learn how it can help organizations with security in multicluster environments.

Multicluster Operational Security Using RHACS

Manage the operational security of a Kubernetes cluster fleet using Red Hat Advanced Cluster Security for Kubernetes (RHACS), and integrate RHACS with external services.