

Multicluster Management with Red Hat OpenShift Platform Plus (DO480)

Duration: 4 Days

Prerequisites:

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

Course Description:

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.

Intended Audience:

System Administrators, Developers, Site Reliability Engineers, and IT Architects interested in managing and automating the management of a fleet of OpenShift clusters, possibly in different data centers and cloud providers.

Course Outlines:

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 (RHOC).

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.

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