Red Hat OpenShift Administration III: Scaling Kubernetes Deployments in the Enterprise

Code:	DO380
Length:	4 days
URL:	View Online

Red Hat OpenShift Administration III: Scaling Kubernetes Deployments in the Enterprise (DO380) expands upon the skills required to plan, implement, and manage OpenShift® clusters in the enterprise. You will learn how to support a growing number of stakeholders, applications, and users to achieve large-scale deployments.

- This course is based on Red Hat® OpenShift Container Platform 4.10.

Skills Gained

- Manage OpenShift cluster operators and add operators.
- Automate OpenShift management tasks using Ansible® playbooks.
- Create and schedule cluster administration jobs.
- Implement GitOps workflows using Jenkins.
- Integrate OpenShift with enterprise authentication.
- Query and visualize cluster-wide logs, metrics, and alerts.
- Manage both shared, file-based storage and non-shared, block-based storage.
- Manage machine pools and machine configurations.

Who Can Benefit

- Cluster engineers (systems administrators, cloud administrators, or cloud engineers) focused on planning, designing, and implementing production-grade OpenShift clusters. Cluster engineers require automation skills to scale their manpower to provision and manage an increasing population of clusters, applications, and users, at the same time ensuring these clusters remain in compliance with corporate standards.
- Site reliability engineers (SREs) focused on keeping OpenShift clusters and applications running without disruption. SREs are interested in troubleshooting infrastructure and application issues with OpenShift clusters and require automation skills to reduce the time to identify, diagnose, and remediate issues.

Prerequisites

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- Complete Red Hat OpenShift Administration II: Operating a Production Kubernetes Cluster(DO280) and become a Red Hat Certified Specialist in OpenShift Administration.
- Complete Red Hat System Administration II (RH134) and become a Red Hat Certified System Administrator.
- Recommended, but not required: become a Red Hat Certified Systems Engineer or a Red Hat Certified Specialist in Ansible Automation. Basic knowledge about writing and running Ansible playbooks is desired.

Course Details

Move from Kubernetes to OpenShift

- Demonstrate that OpenShift is Kubernetes by deploying Kubernetes-native applications on OpenShift.

Introduce automation on OpenShift

- Automate OpenShift administration tasks using bash scripts and Ansible playbooks.

Manage operators with OpenShift

- Deploy Kubernetes Operators and configure OpenShift cluster operators.

Implement GitOps with Jenkins

- Implement a GitOps workflow using containerized Jenkins to administer an OpenShift cluster.

Configure enterprise authentication

- Integrate OpenShift with enterprise identity providers.

Configure trusted TLS certificates

- Configure OpenShift with trusted TLS certificates for external access to cluster services and applications.

Configure dedicated node pools

- Configure a subset of the cluster nodes for special workloads.

Configure persistent storage

- Configure storage providers and storage classes to ensure cluster user access to persistent storage.

Manage cluster monitoring and metrics

- Configure and manage the OpenShift monitoring stack.

Provision and inspect cluster logging

- Deploy, query, and troubleshoot cluster-wide logging.

Recover failed worker nodes

- Inspect, troubleshoot, and remediate worker nodes in a variety of failure scenarios.

Schedule (as of 3)

Date	Location		
Jun 10, 2024 – Jun 14, 2024	Virtual	GTR	Enroll

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