

Red Hat OpenShift Administration III: Scaling Kubernetes Deployments in the Enterprise – DO380

This course is based on Red Hat® OpenShift Container Platform 4.5.

Outline for this course

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

Add nodes to an OpenShift cluster with custom configurations tuned 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.