

Red Hat OpenShift Enterprise Administration II: Operating a Production Kubernetes Cluster (DO280)

COURSE OVERVIEW:

- Describe the Red Hat OpenShift Container Platform cluster installation and update processes
- Troubleshoot application deployments
- Configure authentication using local users
- Control access to projects using role-based access control (RBAC)
- Configure service and container networking
- Configure pod scheduling using labels and selectors
- Limit compute resource usage
- Scale a cluster
- Monitor cluster events and alerts

WHO WILL BENEFIT FROM THIS COURSE?

This course is designed for system administrators, system architects, and developers who want to install and configure Red Hat OpenShift Container Platform.

- System and Software Architects interested in understanding features and functionality of an OpenShift cluster.
- System Administrators interested in the initial establishment of a cluster.
- Cluster Operators interested in the ongoing maintenance of a cluster.
- Site Reliability Engineers interested in the ongoing maintenance and troubleshooting of a cluster.

PREREQUISITES:

- Become a Red Hat Certified System Administrator, or demonstrate equivalent Red Hat Enterprise Linux system administration experience
- Complete Introduction to Containers, Kubernetes, and Red Hat OpenShift (DO180), or demonstrate equivalent experience with containers, Kubernetes, and OpenShift basics

COURSE OBJECTIVES:

After completing this course, you should be able to demonstrate the skills to establish a new OpenShift cluster, perform initial configuration of the cluster, and manage the cluster on a day-to-day basis. One major focus of the course is troubleshooting common problems that will be encountered beyond day one.

COURSE OUTLINE:

Describe the Red Hat OpenShift Container Platform

- Learn the components of Red Hat OpenShift Container Platform and how they interact.

Verify a Cluster

- Verify a cluster is installed and healthy.

Configure Authentication

- Configure authentication with an identity provider.

Control Access to OpenShift Resources

Configure OpenShift Networking Components

- Identify the components of OpenShift software-defined networking and configure some of the components.

Control Pod Scheduling

- Control which nodes a pod runs on.

Scale an OpenShift Cluster

- Control the size of an OpenShift cluster.

Perform Cluster Updates

- Describe how to perform a cluster update.

Manage the Cluster with the Web Console

- Manage the OpenShift cluster using the web console.

Comprehensive Review

- Verify, manage, and troubleshoot an OpenShift cluster for enterprise use.

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