



Red Hat Enterprise OpenShift Administration

Course ISI-1548 5 Days Instructor-led, Hands-on

Create, Configure, Manage, and Troubleshoot OpenShift Clusters

Red Hat OpenShift Administration I (DO280) teaches you how to install and administer the Red Hat® OpenShift® Container Platform . This hands-on, lab-based course shows you how to install, configure, and manage OpenShift clusters and deploy sample applications to further understand how developers will use the platform.

This course is based on Red Hat® Enterprise Linux® 8.0 and OpenShift Container Platform 4.2.

OpenShift is a containerized application platform that allows enterprises to manage container deployments and scale their applications using Kubernetes. OpenShift provides predefined application environments and builds upon Kubernetes to provide support for DevOps principles such as reduced time to market, infrastructure-as-code, continuous integration (CI), and continuous delivery (CD)

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

. This course is intended to develop the skills needed to install, configure, and manage the Red Hat OpenShift Container Platform to deploy containerized applications that are highly available, resilient, and scalable. Red Hat OpenShift Container Platform enables rapid application development and deployment, as well as portability of an application across environments. The platform also offers simplified application scaling, administration, and maintenance of adapted or cloud-native applications

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.

Contact ISInc for more information at 916.920.1700 or by visiting our website at <http://www.isinc.com>



Prerequisites

Prerequisites for this course

- 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

Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves. For questions or confirmation on a specific objective or topic, contact one of our training specialists.

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Course Outline

- Module 1: Describe the Red Hat OpenShift Container Platform**
- Module 2: Learn the components of Red Hat OpenShift Container Platform and how they interact.**
- Module 3: Verify a Cluster**
- Module 4: Verify a Cluster is installed and healthy.**
- Module 5: Configure Authentication**
- Module 6: Configure authentication with an identity provider.**
- Module 7: Control Access to OpenShift Resources**
- Module 8: Define and apply role-based access controls and protect sensitive information with secrets.**
- Module 9: Configure OpenShift Networking Components**
- Module 10: Identify the components of OpenShift software-defined networking and configure some of the components.**
- Module 11: Control Pod Scheduling**
- Module 12: Control which nodes a pod runs on.**
- Module 13: Scale an OpenShift Cluster**
- Module 14: Control the size of an OpenShift cluster.**
- Module 15: Perform Cluster Updates**
- Module 16: Describe how to perform a cluster update.**
- Module 17: Manage the Cluster with the Web Console**
- Module 18: Manage the OpenShift cluster using the web console.**
- Module 19: Comprehensive Review**
- Module 20: Verify, manage, and troubleshoot an OpenShift cluster for enterprise use.**