RED HAT OPENSHIFT ADMINISTRATION I: OPERATING A PRODUCTION CLUSTER (DO180)

Course Code: 6488

Learn Introduction to building and managing containers for deployment on a Kubernetes and OpenShift 4 cluster.

Red Hat OpenShift I: Containers & Kubernetes (DO180) introduces students to building and managing containers for deployment on a Kubernetes cluster. This course helps students build core knowledge and skills in managing containers through hands-on experience with containers, Kubernetes, and the Red Hat OpenShift Container Platform needed for multiple roles, including developers, administrators and site reliability engineers.

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

Course content summary

- Container and OpenShift architecture
- Creating containerized services
- Managing containers and container images
- Creating custom container images
- Deploying containerized applications on OpenShift
- Deploying multi-container applications

What You'll Learn

Containers and OpenShift have quickly become the de facto solution for agile development and application deployment. Administrators and developers are seeking additional ways to improve application time-to-market and improve maintainability.

A container-based architecture, orchestrated with Kubernetes and OpenShift, improves application reliability, scalability, decreases developer overhead, and facilitates continuous integration and continuous deployment. DO180 is the starting point for OpenShift curriculum within GLS and provides the necessary foundation before advancing to OpenShift development or administration.

This course provides the gateway to organizational and digital transformation by providing a comprehensive look at the potential of DevOps using a container-based

architecture.

As a result of attending this course, students should gain the skills needed to perform basic tasks in Red Hat OpenShift Container Platform (OCP). This includes the ability to:

- Create containerized services using Podman.
- Manage containers and container images.
- Create custom container images.
- Deploy containerized applications on OpenShift.
- Deploy multi-container applications.

Who Needs to Attend

- Developers who want to containerize software applications.
- Administrators who are new to container technology and container orchestration.
- Architects who are looking to use container technologies in software architectures.
- Site Reliability Engineers who want to support their technology infrastructure using Kubernetes and OpenShift.

Prerequisites

- Take our free assessment to gauge whether this offering is the best fit for your skills.
- Experience in the use of a Linux terminal session, issuing operating system commands, and familiarity with shell scripting. A Red Hat Certified System Administrator (RHCSA) certification is recommended but not required.
- Some experience with web application architectures and their corresponding technologies.

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CLASSROOM LIVE	$4,700 USD	4 Day

Classroom Live Outline

Introducing container technology

- Describe how software can run in containers orchestrated by Red Hat OpenShift Container Platform.

Creating containerized services

- Provision a service using container technology.

Managing containers

- Modify pre-build container images to create and manage containerized services.

Managing container images

- Manage the life cycle of a container image from creation to deletion.

Creating custom container images

- Design and code a Container file to build a custom container image.

Deploying containerized applications on OpenShift

- Deploy single container applications on OpenShift Container Platform.

Deploying multi-container applications

- Deploy applications that are containerized using multiple container images.

Troubleshooting containerized applications

- Troubleshoot a containerized application deployed on OpenShift.

Comprehensive review of introduction to container, Kubernetes, and Red Hat OpenShift

- Demonstrate how to containerize a software application, test it with Podman, and deploy it on an OpenShift cluster.

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VIRTUAL CLASSROOM LIVE	$4,700 USD	5 Day

Virtual Classroom Live Outline

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Apr 21 - 25, 2025 | 11:00 AM - 5:00 PM EDT

May 5 - 9, 2025 | 11:00 AM - 5:00 PM EDT

May 12 - 16, 2025 | 11:00 AM - 5:00 PM EDT

Jun 2 - 6, 2025 | 11:00 AM - 5:00 PM EDT

Jun 9 - 13, 2025 | 11:00 AM - 5:00 PM EDT

Jun 23 - 27, 2025 | 11:00 AM - 5:00 PM EDT

Jul 7 - 11, 2025 | 11:00 AM - 5:00 PM EDT

Jul 21 - 25, 2025 | 11:00 AM - 5:00 PM EDT

Aug 4 - 8, 2025 | 11:00 AM - 5:00 PM EDT

Aug 11 - 15, 2025 | 11:00 AM - 5:00 PM EDT

Aug 18 - 22, 2025 | 11:00 AM - 5:00 PM EDT

Sep 8 - 12, 2025 | 11:00 AM - 5:00 PM EDT

Sep 22 - 26, 2025 | 11:00 AM - 5:00 PM EDT

Sep 29 - Oct 3, 2025 | 11:00 AM - 5:00 PM EDT

Oct 13 - 17, 2025 | 11:00 AM - 5:00 PM EDT

Oct 27 - 31, 2025 | 11:00 AM - 5:00 PM EDT

Nov 17 - 21, 2025 | 11:00 AM - 5:00 PM EST

Dec 1 - 5, 2025 | 11:00 AM - 5:00 PM EST

Dec 8 - 12, 2025 | 11:00 AM - 5:00 PM EST

Dec 15 - 19, 2025 | 11:00 AM - 5:00 PM EST

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ON-DEMAND	$3,995 USD

On-Demand Outline

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PRIVATE GROUP TRAINING	4 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.