Containers, Kubernetes and Red Hat OpenShift Technical Overview (DO080) Training

Duration: **30 Day**

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Gain a clear understanding of how to manage and deploy**containerized applications** using **Kubernetes** and **Red Hat OpenShift**.

The {*training} offers a series of**on-demand video lessons** designed to introduce you to the concepts of **Linux containers**, **container orchestration**, and the **OpenShift platform**.

> *This course is based on Red Hat OpenShift Container Platform version 4.12.*

Impact on the Organization

Organizations adopting **containers and OpenShift** gain the ability to:

- Standardize application deployment across hybrid environments.
- Improve scalability and resource utilization.
- Increase development speed through automation and orchestration.

Impact on the Individual

After completing this course, you will:

- Understand container and orchestration fundamentals.
- Be able to interact with **OpenShift clusters** via the command line and UI.
- Know how to deploy and manage applications using **Helm** and **Operators**.
- Be ready to continue with **advanced OpenShift or Kubernetes training**.

Prerequisites

No prior experience is required.
This course serves as an **introductory foundation** to containers, Kubernetes, and OpenShift.

Who Should Attend

This course is designed for **anyone interested in learning containerization technology**, understanding how containers work, and deploying them at scale with **Kubernetes and OpenShift** — whether you are a developer, system administrator, or IT professional new to containers.

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What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Understanding container and containerized application concepts.
- Introduction to Kubernetes and OpenShift fundamentals.
- Creating and configuring an OpenShift cluster.
- Managing OpenShift from both **CLI and Web Console**.
- Using **Operators** to manage machines and nodes.
- Deploying applications with **Helm** and **Source-to-Image (S2I)**.
- Managing **user access and permissions** in OpenShift.

Training Outline

1. Introduction to DO080
Overview of the course and its learning objectives.

2. Understanding Container Concepts
Learn what containers are, how they work, and why they are essential in modern application development.

3. Introducing Kubernetes and OpenShift
Explore container orchestration using Kubernetes and how Red Hat OpenShift enhances it for enterprise environments.

4. Getting Started with OpenShift
Set up and interact with an OpenShift cluster.

5. Managing Machines and Nodes with Operators
Automate cluster management using **OpenShift Operators**.

6. Using Command Line Tools with OpenShift
Perform administrative and developer tasks via **CLI tools (oc, kubectl)**.

7. Deploying Applications on OpenShift
Deploy and scale containerized applications using **Helm charts** and **S2I workflows**.

8. Controlling Access to OpenShift
Manage authentication, roles, and user permissions.

9. Next Steps in OpenShift Learning
Explore additional OpenShift training paths to deepen your expertise.

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