Red Hat OpenShift Administration I: Operating a Production Cluster

Category: Infrastructure & IT Operations | **Vendor:** Red Hat

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Introduction to Containers, Kubernetes, and Red Hat OpenShift (DO180) introduces building and managing Docker containers for deployment on a Kubernetes cluster. This course helps students build core knowledge and skills in managing containers through hands-on experience with Docker, Kubernetes, and Red Hat® OpenShift Container Platform.

This course is based on Red Hat® OpenShift Container Platform 3.9 and Red Hat® Enterprise Linux® 7.5.

About This Course

As a result of attending this class, students should be able to containerize simple software applications and services; deploy them with Docker, Kubernetes, and Red Hat OpenShift; test the containerized version; and troubleshoot issues with deployment.

One of the key tenets of the DevOps movement is continuous integration and continuous deployment. Containers have become a key technology for the configuration and deployment of applications and microservices. Kubernetes is a container orchestration platform that provides foundational services in Red Hat OpenShift Container Platform.

Course content summary

- Understand container, Docker, and Red Hat OpenShift architecture.
- Create containerized services.
- Manage containers and container images.
- Create custom container images.
- Deploy containerized applications on Red Hat OpenShift.
- Deploy multi-container applications.

Who Should Attend

- Developers who wish to containerize software applications
- Administrators who are new to container technology and container orchestration
- Architects who are considering using container technologies in software architectures

Prerequisites & Entry Requirements

General Prerequisites:

- Be able to use a Linux terminal session and issue operating system commands
- Be a Red Hat Certified System Administrator (RHCSA) , or demonstrate equivalent experience
- Have experience with web application architectures and their corresponding technologies

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Impact on the organization

This course is intended to develop the skills needed to create microservices architectures using OpenShift. Microservices are a new alternative to designing modern applications, focused on working with less hardware resources and, therefore, reducing infrastructure costs. OpenShift is a cloud solution that leverages the usage of microservices running on containers.

While Red Hat has created this course in a way intended to benefit our customers, each company and infrastructure is unique, and actual benefits may vary.

Impact on the individual

As a result of attending this course, you should be able to perform these basic tasks in Red Hat OpenShift Container Platform:

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

Detailed Course Outline

Course introduction

Introduce and review the course.

Get started with container technology

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

Create containerized services

Provision a server using container technology.

Manage containers

Manipulate pre-built container images to create and manage containerized services.

Manage container images

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

Create custom container images

Design and code a Docker file to build a custom container image.

Deploy containerized applications on Red Hat OpenShift

Deploy single container applications on Red Hat OpenShift Container Platform.

Deploy multi-container applications

Deploy applications that are containerized using multiple container images.

Troubleshoot containerized applications

Troubleshoot a containerized application deployed on Red Hat OpenShift.

Comprehensive review of Introduction to Container, Kubernetes, and Red Hat OpenShift

Demonstrate how to containerize a software application, test it with Docker, and deploy it on a Red Hat OpenShift cluster.

Skills You Will Learn:

Impact on the organization

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Frequently Asked Questions

Q: What delivery options are available for Red Hat OpenShift Administration I: Operating a Production Cluster?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 4-day Red Hat OpenShift Administration I: Operating a Production Cluster course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Red Hat OpenShift Administration I: Operating a Production Cluster training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Red Hat OpenShift Administration I: Operating a Production Cluster?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat OpenShift Administration I: Operating a Production Cluster. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Red Hat OpenShift Administration I: Operating a Production Cluster, OpenShift Administration, DO180

Q: Why choose Nexus Human for Red Hat OpenShift Administration I: Operating a Production Cluster?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Red Hat OpenShift Administration I: Operating a Production Cluster training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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