Red Hat OpenShift with Serverless and Knative (DO246)

Category: Software Development & Programming | **Vendor:** Red Hat

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Related Exam: DO246

Course Overview

Design, build, and deploy containerized applications on Red Hat OpenShift with additional focus on developing and deploying event-driven auto-scaling serverless applications and functions Red Hat OpenShift with Serverless and Knative (DO264), teaches you how to design, build, and deploy containerized software applications on Red Hat® OpenShift Container Platform, a containerized application platform that allows enterprises to manage container deployments and scale their applications by using Kubernetes. You will also learn how to develop, deploy, and auto-scale event driven serverless applications by using Red Hat OpenShift Serverless. This will enable developers and Site Reliability Engineers (SREs) to focus on the core business logic of their applications and functions by delegating operational concerns and infrastructure services to the Red Hat® OpenShift Serverless platform. This course is based on Red Hat OpenShift Serverless 1.23 and OpenShift Container Platform 4.10.

About This Course

Design, build, and deploy containerized applications on Red Hat OpenShift with additional focus on developing and deploying event-driven auto-scaling serverless applications and functions Red Hat OpenShift with Serverless and Knative (DO264), teaches you how to design, build, and deploy containerized software applications on Red Hat® OpenShift Container Platform, a containerized application platform that allows enterprises to manage container deployments and scale their applications by using Kubernetes. You will also learn how to develop, deploy, and auto-scale event driven serverless applications by using Red Hat OpenShift Serverless. This will enable developers and Site Reliability Engineers (SREs) to focus on the core business logic of their applications and functions by delegating operational concerns and infrastructure services to the Red Hat® OpenShift Serverless platform. This course is based on Red Hat OpenShift Serverless 1.23 and OpenShift Container Platform 4.10.

Who Should Attend

Enterprise application developers interested in building and deploying containerized applications. Cloud-native application developers interested in developing serverless applications. Site Reliability Engineers and OpenShift Administrators interested in using serverless technologies to automate operations and developing utility tools to manage and monitor their applications.

Prerequisites & Entry Requirements

General Prerequisites:

- Complete Red Hat OpenShift Development I: Introduction to Containers with Podman (DO188) or demonstrate equivalent knowledge.
- Experience programming REST APIs in Java or JavaScript (Node.js) is required.
- Being a Red Hat Certified System Administrator or having earned a higher certification is helpful for navigation and usage of the command line, but is not required.

Learning Outcomes

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

Designing containerized applications for OpenShift. Managing and triggering application builds by using Source-to-Image (S2I). Customizing an existing source-to-image base image. Deploying multi-container applications by using Helm Charts. Creating health checks to monitor and improve application reliability. Creating and deploying cloud-native applications on OpenShift. Understanding OpenShift Serverless architecture and primary features of Knative for serverless applications. Implementing cloud-native serverless applications by using Knative serving. Implementing event-driven serverless applications by using Knative eventing. Implementing serverless applications using OpenShift Serverless functions.

Detailed Course Outline

Deploy and manage applications on an OpenShift cluster

- Deploy applications by using various application packaging methods on an OpenShift cluster and manage their resources.

Design containerized applications for OpenShift

- Select a containerization method for an application and create a container to run on an OpenShift cluster.

Publish enterprise container images

- Create an enterprise registry and publish container images to it.

Manage builds on OpenShift

- Describe the OpenShift build process, in addition to triggering and managing builds.

Customize source-to-image builds

- Customize an existing S2I base image and create a new one.

Deploy multi-container applications

- Deploy multi-container applications by using Helm charts and Kustomize.

Manage application deployments

- Monitor application health and implement various deployment methods for cloud-native applications.

Build applications for OpenShift

- Create, Deploy and Integrate third-party applications on OpenShift.

Introduction to Red Hat OpenShift Serverless and Knative

- Describe the architecture of Red Hat OpenShift Serverless.

Develop Serverless Applications by using Knative Serving

- Deploy and scale serverless applications with Knative Serving

Develop Event-driven Serverless Applications by using Knative Eventing

- Implement event driven serverless applications by using Knative Eventing.

Develop Applications by Using OpenShift Serverless Functions

- Implement serverless applications by using OpenShift Serverless Functions.

Frequently Asked Questions

Q: What delivery options are available for Red Hat OpenShift with Serverless and Knative (DO246)?

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: Which exam does this course prepare me for?

This course prepares you for the DO246 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 5-day Red Hat OpenShift with Serverless and Knative (DO246) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Red Hat OpenShift with Serverless and Knative (DO246) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Red Hat OpenShift with Serverless and Knative (DO246)?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat OpenShift with Serverless and Knative (DO246). 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: Why choose Nexus Human for Red Hat OpenShift with Serverless and Knative (DO246)?

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 with Serverless and Knative (DO246) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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