Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh with exam (EX328)

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

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Red Hat Certified Specialist in Building Resilient Microservices
Related Exam:	EX328

Course Overview

Control, manage, trace, monitor, and test your microservices with Red Hat OpenShift Service Mesh

Openshift created an enterprise-ready, multi-tenant platform that made deploying and scaling microservice applications efficient and repeatable. But as these architectures become larger and more complex, defining how these services interact with each other becomes increasingly difficult. Red Hat OpenShift Service Mesh comprises three products, Istio, Jaeger, and Kiali that facilitate managing service interaction, provide service tracing, and create a visual representation of communication pathways. This offering is an introduction to Red Hat OpenShift Service Mesh that teaches students installation, service monitoring, service management, and service resilience with Red Hat OpenShift Service Mesh.

The Red Hat Certified Specialist in Building Resilient Microservices Exam (EX328) is included in this offering.

Course content summary

- Install Red Hat OpenShift Service Mesh on an OpenShift cluster.
- Apply release strategies by controlling service traffic.
- Build service resilience with load balancing and failovers.
- Test service resilience with chaos testing.
- Enforce service security.
- Observe, measure, and trace network traffic with OpenShift Service Mesh.

About This Course

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Learning Outcomes

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

Impact on the organization

Microservice architectures with OpenShift and Service Mesh enable Organizations to improve application resilience and scalability, while decreasing developer overhead. This leads organizations to improved time to market as well as improved insight into their microservice architecture by being able to visualize and trace data flow throughout their applications. These insights can dictate better resource allocation for applications as well as more quickly identifying defects in specific microservices.

Impact on the individual

Students will be able to use the concepts in this course to simplify and more efficiently manage their service interactions. Students will learn how to install and configure Service Mesh to define, monitor, and manage service interaction within their microservice architecture. This course is intended to illustrate the ease of Service Mesh's "sidecar" approach and to highlight the benefits of service resilience and monitoring that the product provides.

Detailed Course Outline

Introduction to Red Hat OpenShift Service Mesh

Describe the basic concepts of microservice architecture and Red Hat Service Mesh.

Install Red Hat Service Mesh

Deploy Red Hat Service Mesh on OpenShift Container Platform.

Observe a Service Mesh

Trace and visualize an OpenShift Service Mesh with Jaeger and Kiali.

Control Service Traffic

Manage and route traffic with Red Hat Service Mesh.

Release Applications with Service Mesh

Releasing applications with canary and mirroring release strategies.

Test Service Resilience with Chaos Testing

Test the resiliency of an OpenShift Service Mesh with Chaos Testing.

Build Resilient Services

Leverage OpenShift Service Mesh strategies for creating resilient services.

Secure an OpenShift Service Mesh

Secure and encrypt services in your application with Red Hat OpenShift Service Mesh.

Certification Path

Red Hat Certified Specialist in Building Resilient Microservices

Exam: EX328

Skills You Will Learn:

Impact on the organization

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Frequently Asked Questions

Q: What delivery options are available for Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh with exam (EX328)?

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: What certification does this course prepare me for?

The Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh with exam (EX328) course helps prepare you for the Red Hat Certified Specialist in Building Resilient Microservices certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the EX328 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 3-day Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh with exam (EX328) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh with exam (EX328) training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh with exam (EX328)?

Yes, we provide corporate training, dedicated training, and closed classes for Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh with exam (EX328). 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: Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh with exam (EX328), OpenShift Development, DO329

Q: Why choose Nexus Human for Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh with exam (EX328)?

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 Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh with exam (EX328) 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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