Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh - Red Hat Learning Subscription Course (DO328LS)

Category: AI, Data & Analytics | **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
Related Exam:	EX288; DO288; DO328

Course Overview

Control, manage, trace, monitor, and test your microservices with Red Hat OpenShift Service Mesh Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh (DO328) is an introduction to Red Hat OpenShift Service Mesh that teaches students installation, service monitoring, service resilience, and service security with Red Hat OpenShift Service Mesh. Red Hat OpenShift created an enterprise-ready, multitenant 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 is increasingly difficult. Red Hat OpenShift Service Mesh comprises three products: Istio, Jaeger, and Kiali, facilitating a zero-trust network for managing secure service interactions, providing service tracing, and creating a visual representation of communication pathways. This course is based on Red Hat OpenShift® Container Platform 4.6 and Red Hat OpenShift Service Mesh 2.0. RHLS Course Includes: 365-Day RHLS Subscription - Full year of access starting from your purchase date. Official Red Hat Training Curriculum - Learn directly from Red Hat’s validated, up-to-date course materials. Hands-On Labs (100 Hours per Course) - Build practical, real-world skills through extensive lab time. One Certification Exam + Free Retake - Includes exam readiness resources to help you prepare with confidence. One Virtual, Instructor-Led Class - Attend a live online class through the Red Hat portal (self-enrollment required using your RHID).

About This Course

Control, manage, trace, monitor, and test your microservices with Red Hat OpenShift Service Mesh Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh (DO328) is an introduction to Red Hat OpenShift Service Mesh that teaches students installation, service monitoring, service resilience, and service security with Red Hat OpenShift Service Mesh. Red Hat OpenShift created an enterprise-ready, multitenant 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 is increasingly difficult. Red Hat OpenShift Service Mesh comprises three products: Istio, Jaeger, and Kiali, facilitating a zero-trust network for managing secure service interactions, providing service tracing, and creating a visual representation of communication pathways. This course is based on Red Hat OpenShift® Container Platform 4.6 and Red Hat OpenShift Service Mesh 2.0. RHLS Course Includes: 365-Day RHLS Subscription - Full year of access starting from your purchase date. Official Red Hat Training Curriculum - Learn directly from Red Hat's validated, up-to-date course materials. Hands-On Labs (100 Hours per Course) - Build practical, real-world skills through extensive lab time. One Certification Exam + Free Retake - Includes exam readiness resources to help you prepare with confidence. One Virtual, Instructor-Led Class - Attend a live online class through the Red Hat portal (self-enrollment required using your RHID).

Who Should Attend

This course is designed for developers who want to deploy and scale microservices applications.

Prerequisites & Entry Requirements

General Prerequisites:

- Attending Red Hat Cloud-native Microservices Development with Quarkus (DO378) or demonstrating equivalent experience in creating microservice applications is recommended, but not required
- Attending Red Hat OpenShift I: Containers & Kubernetes (DO180) and Red Hat OpenShift Development II: Containerizing Applications (DO288), and passing the Red Hat Certified Specialist in OpenShift Application Development exam (EX288), or possessing basic OpenShift experience, is strongly recommended.

Learning Outcomes

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

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.

Detailed Course Outline

1 - Introduction to Red Hat OpenShift Service Mesh

- Describe the basic concepts of microservice architecture and OpenShift Service Mesh.

2 - Install Red Hat OpenShift Service Mesh

- Deploy Red Hat OpenShift Service Mesh on Red Hat OpenShift Container Platform.

3 - Observe a service mesh

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

4 - Control service traffic

- Manage and route traffic with OpenShift Service Mesh.

5 - Release applications with service mesh

- Release applications with canary and mirroring release strategies.

6 - Test service resilience with chaos testing

- Gauge the resiliency of Red Hat OpenShift Service Mesh with chaos testing.

7 - Build resilient services

- Use OpenShift Service Mesh strategies to create resilient services.

8 - Secure services with OpenShift Service Mesh

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

Frequently Asked Questions

Q: What delivery options are available for Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh - Red Hat Learning Subscription Course (DO328LS)?

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 EX288; DO288; DO328 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 - Red Hat Learning Subscription Course (DO328LS) 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 - Red Hat Learning Subscription Course (DO328LS) 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 - Red Hat Learning Subscription Course (DO328LS)?

Yes, we provide corporate training, dedicated training, and closed classes for Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh - Red Hat Learning Subscription Course (DO328LS). 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 Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh - Red Hat Learning Subscription Course (DO328LS)?

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 - Red Hat Learning Subscription Course (DO328LS) 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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