

Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh

Cursusduur: 3 Dagen Cursuscode: DO328 Trainingsmethode: Virtual Learning

Beschrijving:

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.

Following course completion, you will receive a 45-day extended access to hands-on labs for any course that includes a virtual environment.

Note: This course is offered as a four day virtual class or self-paced. Durations may vary based on the delivery. For full course details, scheduling, and pricing, select your location then “get started” on the right hand menu.

Virtueel en Klassikaal[™]

Virtueel en Klassikaal[™] is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal[™] kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor) of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

Doelgroep:

This course is designed for developers who want to deploy, manage, and secure microservices applications on Red Hat OpenShift.

Doelstelling:

- Install Red Hat OpenShift Service Mesh on a Red Hat 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.

Vereiste kennis en vaardigheden:

Take our free assessment to gauge whether this offering is the best fit for your skills.

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.

Cursusinhoud:

Introduction to Red Hat OpenShift Service Mesh	Control service traffic	Build resilient services
Describe the basic concepts of microservice architecture and OpenShift Service Mesh.	Manage and route traffic with OpenShift Service Mesh.	Use OpenShift Service Mesh strategies to create resilient services.
Install Red Hat OpenShift Service Mesh	Release applications with service mesh	Secure services with OpenShift Service Mesh
Deploy Red Hat OpenShift Service Mesh on Red Hat OpenShift Container Platform.	Release applications with canary and mirroring release strategies.	Secure and encrypt services in your application with Red Hat OpenShift Service Mesh.
Observe a service mesh	Test service resilience with chaos testing	Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves.
Trace and visualize an OpenShift Service Mesh with Jaeger and Kiali.	Gauge the resiliency of Red Hat OpenShift Service Mesh with chaos testing.	

Extra informatie:

Technology considerations:

Internet access is required.

Impact on the organization

Microservice architectures with Red Hat OpenShift Service Mesh enable organizations to improve application security, resilience, and scalability, while decreasing developer overhead. Red Hat OpenShift Service Mesh adds an additional level of security for data in transit with mutual TLS encryption and a zero-trust network. 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.

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

Impact on the individual

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

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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