

Building Resilient Microservices with Red Hat Service Mesh

Cursusduur: 0 Dagen Cursuscode: DO328 Trainingsmethode: e-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) teaches students installation, service monitoring, service management, and service resilience of Red Hat OpenShift® Service Mesh.

OpenShift created an enterprise-ready, multi-tenant platform that made deploying and scaling microservice applications efficient and easily 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 3 products—Istio, Jaeger, and Kiali—that facilitate service interaction management, provide service tracing, and create a visual representation of communication pathways.

This course is based on Red Hat OpenShift® Container Platform 4.4 and Red Hat OpenShift Service Mesh 1.1. **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.**

Interactive self-paced content that provides flexibility in terms of pace, place and time to suit individuals and organisations. These resources also consist of online books, educational podcasts and vodcasts, and video-based learning.

Doelgroep:

This course is designed for developers who want to deploy and scale microservices applications. Platform Developer -- Primary Audience
Microservice Developer -- Secondary Audience

Doelstelling:

- 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.
- 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

Vereiste kennis en vaardigheden:

- Attending Red Hat Application Development II: Implementing Microservice Architectures (DO283) 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:

Observe a service mesh

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

Control service traffic

- Manage and route traffic with OpenShift Service Mesh.

Release applications with OpenShift Service Mesh

- Release applications with canary and mirroring release strategies.

Test service resilience with chaos testing

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

Build resilient services

- Use OpenShift Service Mesh strategies to create resilient services.

Secure an OpenShift Service Mesh

- Encrypt and secure services in your application with OpenShift Service Mesh.

Nadere informatie:

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

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