

# Red Hat Certified Specialist in Building Resilient Microservices



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Interactive Classes  ..

## Online Course



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# Red Hat Certified Specialist in Building Resilient Microservices

## Course Modules

### 1. Deploy and configure applications on Service Mesh:

- o Work with Red Hat Openshift Service Mesh Custom Resources
- o Install sidecar manually in pod applications
- o Automatic sidecar injection using annotations
- o Understand the configuration of network policies

### 2. Routing and Traffic management.

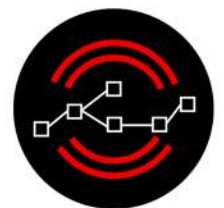
- o Be able to config static and dynamic request routing

### 3. Deployment release pattern strategies

- o Providing more complex operational functionality
- o A/B testing
- o Canary releases

### 4. Configure and manage advanced routing Techniques

- o Traffic shif migration within mesh prdc bet diff srvs A/B test
- o Canary rollouts
- o Staged rollouts with percentage-based traffic splits
- o Dark launches for a selective group of users
- o Take profit of the traffic mirroring capabilities
- o Shadowing launches copying the live traffic





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## 5. Send the inbound & outbound traffic

- o Managing the ingress and egress traffic control policies
- o Define and control gateway entry points into the mess
- o controlled access to external publicly accessible services

## 6. Network resilience and the Fault Tolerance

- o Ensure the failing nodes and prevent localized failures
- o Control the waiting time for replies defining timeouts
- o Enhance service availability
- o Limit for calls within a service & sprevent access
- o Specify the connection & ejection pool policies

## 7. Work and configure Service Mesh policy checks

- o Define enforcement features through policies
- o Enable & config the authorization



## 8. Configure the workload-to-workload Service Mesh

- o Service-to-service comm with secure name authorization
- o Tunnel the service-to-service communication
- o Map the identity of the service name with secure naming
- o Define the required end-user authentication policy check

## 9. Understand and work with the fault injection

- o Inject time failures produce delays to mimic incrsd network
- o Crash failures with er response injections & TCP coctn failures

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