

Linux Foundation

ICA
Istio Certified Associate Certification Exam

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Latest Version: 6.0

Question: 1

How can a VirtualService be used in conjunction with a Gateway in Istio?

Response:

- A. To redirect traffic to external services
- B. To define detailed routing rules for traffic entering through a Gateway
- C. To balance traffic load among internal services
- D. To encrypt data passing through the Gateway

Answer: B

Question: 2

Which Istio feature allows you to control traffic flow between services within the mesh?

Response:

- A. ServiceEntry
- B. VirtualService
- C. DestinationRule
- D. Gateway

Answer: B

Question: 3

In Istio, how does a DestinationRule enhance the functionality of a VirtualService?

Response:

- A. By adding security protocols
- B. By enabling service discovery
- C. By providing detailed routing decisions
- D. By defining policies applied to traffic after routing by VirtualService

Answer: D

Question: 4

What feature of Istio can be used to simulate network failures?

Response:

- A. Traffic mirroring
- B. Sidecar injection
- C. Fault injection
- D. Circuit breakers

Answer: C

Question: 5

For managing Istio component settings, the use of overlays is recommended because:

Response:

- A. It simplifies the update process
- B. It avoids direct changes to the Kubernetes API
- C. It does not require restarting Istio services
- D. All of the above

Answer: D

Question: 6

When applying fault injection in Istio, what is crucial to consider for maintaining service quality?

Response:

- A. The location of the service nodes
- B. The volume of network traffic
- C. The scope and impact of the faults injected
- D. The speed of service deployment

Answer: C

Question: 7

Which type of fault injection is used to simulate a service crash in Istio?

Response:

- A. Traffic mirroring
- B. HTTP delay

- C. HTTP abort
- D. Load balancing

Answer: C

Question: 8

When updating Istio, what is the recommended way to ensure minimal downtime?

Response:

- A. Update Istio during low traffic hours
- B. Use rolling updates
- C. Directly replace the old version
- D. Pause all traffic before updating

Answer: B

Question: 9

In Istio, what advanced technique can be used to manage traffic for complex deployment patterns like canary releases?

Response:

- A. Sidecar injection
- B. Traffic mirroring
- C. Weighted routing rules
- D. Circuit breakers

Answer: C

Question: 10

How can Istio's observability tools assist in troubleshooting?

Response:

- A. By auto-correcting configuration errors
- B. By providing detailed metrics and logs for analysis
- C. By automatically scaling services based on traffic
- D. By encrypting traffic data for security

Answer: B

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