

# Linux Foundation ICA

LINUX FOUNDATION ISTIO ASSOCIATE CERTIFICATION QUESTIONS & ANSWERS

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Exam Summary – Syllabus – Questions

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**ICA**

**Linux Foundation Istio Certified Associate (ICA)**  
60 Questions Exam – 75% Cut Score – Duration of 120 minutes

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## Know Your ICA Certification Well:

The ICA is best suitable for candidates who want to gain knowledge in the Linux Foundation System Administration. Before you start your ICA preparation you may struggle to get all the crucial Istio Associate materials like ICA syllabus, sample questions, study guide.

But don't worry the ICA PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the ICA syllabus?
- How many questions are there in the ICA exam?
- Which Practice test would help me to pass the ICA exam at the first attempt?

Passing the ICA exam makes you Linux Foundation Istio Certified Associate (ICA). Having the Istio Associate certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

## Linux Foundation ICA Istio Associate Certification Details:

<b>Exam Name</b>	Linux Foundation Istio Certified Associate (Istio Associate)
<b>Exam Code</b>	ICA
<b>Exam Price</b>	\$250 USD
<b>Duration</b>	120 minutes
<b>Number of Questions</b>	60
<b>Passing Score</b>	75%
<b>Recommended Training / Books</b>	<a href="#">LFS243 (Envoy Proxy Service Mesh Fundamentals)</a>
<b>Schedule Exam</b>	<a href="#">The Linux Foundation Training &amp; Certification</a>
<b>Sample Questions</b>	<a href="#">Linux Foundation ICA Sample Questions</a>
<b>Recommended Practice</b>	<a href="#">Linux Foundation Istio Certified Associate (ICA) Practice Test</a>

## ICA Syllabus:

Section	Objectives	Weight
<b>Istio Installation, Upgrade &amp; Configuration</b>	<ul style="list-style-type: none"> <li>- Using the Istio CLI to install a basic cluster</li> <li>- Customizing the Istio installation with the IstioOperator API</li> <li>- Using overlays to manage Istio component settings</li> </ul>	<b>7%</b>
<b>Traffic Management</b>	<ul style="list-style-type: none"> <li>- Controlling network traffic flows within a service mesh</li> <li>- Configuring sidecar injection</li> <li>- Using the Gateway resource to configure ingress and egress traffic</li> <li>- Understanding how to use ServiceEntry resources for adding entries to internal service registry</li> <li>- Define traffic policies using DestinationRule</li> <li>- Configure traffic mirroring capabilities</li> </ul>	<b>40%</b>
<b>Resilience and Fault Injection</b>	<ul style="list-style-type: none"> <li>- Configuring circuit breakers (with or without outlier detection)</li> <li>- Using resilience features</li> <li>- Creating fault injection</li> </ul>	<b>20%</b>
<b>Securing Workloads</b>	<ul style="list-style-type: none"> <li>- Understand Istio security features</li> <li>- Set up Istio authorization for HTTP/TCP traffic in the mesh</li> <li>- Configure mutual TLS at mesh, namespace, and workload levels</li> </ul>	<b>20%</b>
<b>Advanced Scenarios</b>	<ul style="list-style-type: none"> <li>- Understand how to onboard non-Kubernetes workloads to the mesh</li> <li>- Troubleshoot configuration issues</li> </ul>	<b>13%</b>

# Linux Foundation ICA Sample Questions:

## Question: 1

What approach does Istio use to enable the integration of legacy systems into the service mesh?

- a) Re-writing legacy systems to be Kubernetes-compatible
- b) Encapsulating legacy systems in containers
- c) Connecting legacy systems through a dedicated gateway
- d) Using adapters to bridge legacy systems with the mesh

**Answer: d**

## Question: 2

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

- a) ServiceEntry
- b) VirtualService
- c) DestinationRule
- d) Gateway

**Answer: b**

## Question: 3

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

- a) Fault injection
- b) Traffic mirroring
- c) Sidecar injection
- d) Circuit breakers

**Answer: a**

## Question: 4

How can Istio's observability tools assist in troubleshooting?

- 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**

**Question: 5**

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

- a) Update Istio during low traffic hours
- b) Directly replace the old version
- c) Use rolling updates
- d) Pause all traffic before updating

**Answer: c**

**Question: 6**

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

- 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: 7**

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

- 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: 8**

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

- a) Sidecar injection
- b) Traffic mirroring
- c) Weighted routing rules
- d) Circuit breakers

**Answer: c**

**Question: 9**

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

- 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: 10**

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

- a) Traffic mirroring
- b) HTTP delay
- c) HTTP abort
- d) Load balancing

**Answer: c**

## Study Guide to Crack Linux Foundation Istio Associate ICA Exam:

- Getting details of the ICA syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the ICA exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the Linux Foundation provided training for ICA exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the ICA sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on ICA practice tests is must. Continuous practice will make you an expert in all syllabus areas.

## Reliable Online Practice Test for ICA Certification

Make VMExam.com your best friend during your Linux Foundation Istio Certified Associate exam preparation. We provide authentic practice tests for the ICA exam. Experts design these online practice tests, so we can offer you an exclusive experience of taking the actual ICA exam. We guarantee you 100% success in your first exam attempt if you continue practicing regularly. Don't bother if you don't get 100% marks in initial practice exam attempts. Just utilize the result section to know your strengths and weaknesses and prepare according to that until you get 100% with our practice tests. Our evaluation makes you confident, and you can score high in the ICA exam.

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