

Linux Foundation CCA

LINUX FOUNDATION CILUM ASSOCIATE CERTIFICATION QUESTIONS & ANSWERS

Exam Summary – Syllabus – Questions

CCA

Cilium Certified Associate (CCA)

60 Questions Exam – 75% Cut Score – Duration of 90 minutes

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Know Your CCA Certification Well:

The CCA is best suitable for candidates who want to gain knowledge in the Linux Foundation Cloud & Containers. Before you start your CCA preparation you may struggle to get all the crucial Cilium Associate materials like CCA syllabus, sample questions, study guide.

But don't worry the CCA 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 CCA syllabus?
- How many questions are there in the CCA exam?
- Which Practice test would help me to pass the CCA exam at the first attempt?

Passing the CCA exam makes you Cilium Certified Associate (CCA). Having the Cilium 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 CCA Cilium Associate Certification Details:

| | |
|-----------------------------|---|
| Exam Name | Linux Foundation Cilium Certified Associate (Cilium Associate) |
| Exam Code | CCA |
| Exam Price | \$250 USD |
| Duration | 90 minutes |
| Number of Questions | 60 |
| Passing Score | 75% |
| Schedule Exam | The Linux Foundation Training & Certification |
| Sample Questions | Linux Foundation CCA Sample Questions |
| Recommended Practice | Cilium Certified Associate (CCA) Practice Test |

CCA Syllabus:

| Section | Objectives | Weight |
|---------------------------------------|--|------------|
| Architecture | <ul style="list-style-type: none"> - Understand the Role of Cilium in Kubernetes Environments - Cilium Architecture - IP Address Management (IPAM) with Cilium - Cilium Component Roles - Datapath Models | 20% |
| Network Policy | <ul style="list-style-type: none"> - Interpret Cilium Network Polices and Intent - Understand Cilium's Identity-based Network Security Model - Policy Enforcement Modes - Policy Rule Structure - Kubernetes Network Policies versus Cilium Network Policies | 18% |
| Service Mesh | <ul style="list-style-type: none"> - Know How to use Ingress or Gateway API for Ingress Routing - Service Mesh Use Cases - Understand the Benefits of Gateway API over Ingress - Encrypting Traffic in Transit with Cilium - Sidecar-based versus Sidecarless Architectures | 16% |
| Network Observability | <ul style="list-style-type: none"> - Understand the Observability Capabilities of Hubble - Enabling Layer 7 Protocol Visibility - Know How to Use Hubble from the Command Line or the Hubble UI | 10% |
| Installation and Configuration | <ul style="list-style-type: none"> - Know How to Use Cilium CLI to Query and Modify the Configuration - Using Cilium CLI to Install Cilium, Run Connectivity Tests, and Monitor its Status | 10% |
| Cluster Mesh | <ul style="list-style-type: none"> - Understand the Benefits of Cluster Mesh for Multi-cluster Connectivity - Achieve Service Discovery and Load Balancing Across Clusters with Cluster Mesh | 10% |
| eBPF | <ul style="list-style-type: none"> - Understand the Role of eBPF in Cilium - eBPF Key Benefits - eBPF-based Platforms versus IPTables-based Platforms | 10% |
| BGP and External Networking | <ul style="list-style-type: none"> - Egress Connectivity Requirements - Understand Options to Connect Cilium-managed Clusters with External Networks | 6% |

Linux Foundation CCA Sample Questions:

Question: 1

How does Cilium handle IP Address Management (IPAM) in Kubernetes environments?

- a) Assigns static IP addresses to pods
- b) Uses a custom Cilium IPAM module for dynamic address management
- c) Depends on external DHCP services
- d) Delegates control to Kubernetes default IPAM

Answer: b

Question: 2

What is an advantage of integrating BGP with Cilium for external networking?

- a) Eliminates the need for physical network devices
- b) Provides a mechanism for automatic rerouting around network issues
- c) Direct integration with Kubernetes service discovery
- d) Simplifies the configuration of network address translation

Answer: b

Question: 3

A cluster mesh is beneficial for which of the following scenarios?

- a) Improving single cluster performance
- b) Managing multiple clusters as one
- c) Reducing operational costs
- d) Simplifying application deployment

Answer: b, d

Question: 4

What distinguishes sidecar-based architectures from sidecarless ones in service mesh deployments?

(Choose Two)

- a) Requirement for a dedicated proxy for each service instance in sidecar-based architectures
- b) Sidecarless architectures typically exhibit lower latency due to fewer proxy hops
- c) Higher resource consumption in sidecar-based setups due to additional proxies
- d) Enhanced security isolation in sidecarless architectures

Answer: a, c

Question: 5

eBPF is an abbreviation for which of the following?

- a) Extended Berkeley Packet Filter
- b) Enhanced Binary Programming Framework
- c) Elastic Backend Platform Facility
- d) None of the above

Answer: a

Question: 6

What unique capability does Cilium offer for network policy enforcement?

- a) Application layer gateway functionality
- b) Automatic pod replication based on traffic
- c) Identity-based enforcement leveraging Kubernetes labels
- d) Direct control over physical network devices

Answer: c

Question: 7

Which of the following are true about Cilium's Identity-based Network Security Model?

(Choose Two)

- a) It uses traditional IP-based filtering mechanisms
- b) Identities are assigned based on pod labels
- c) It supports dynamic policy enforcement
- d) Identities need to be statically defined in the network policy

Answer: b, c

Question: 8

In the context of Cilium, how is the Policy Rule Structure typically defined?

(Choose Two)

- a) As JSON-formatted files
- b) Through Kubernetes API resources
- c) Using YAML configuration files
- d) With direct modifications to the BPF bytecode

Answer: b, c

Question: 9

Using the Cilium CLI, how can an administrator ensure that Cilium is correctly functioning in their Kubernetes environment?

- a) cilium validate
- b) cilium health check
- c) cilium status
- d) cilium verify

Answer: c

Question: 10

Which protocol is typically used for defining network policies in a Kubernetes cluster?

- a) TCP
- b) UDP
- c) HTTP
- d) YAML

Answer: d

Study Guide to Crack Linux Foundation Cilium Associate CCA Exam:

- Getting details of the CCA 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 CCA 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 CCA 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 CCA 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 CCA practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for CCA Certification

Make VMExam.com your best friend during your Linux Foundation Cilium Certified Associate exam preparation. We provide authentic practice tests for the CCA exam. Experts design these online practice tests, so we can offer you an exclusive experience of taking the actual CCA 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 CCA exam.

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