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Linux Foundation CCA

Cilium Certified Associate (CCA)



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Question: 1

What are the primary purposes of a layered architecture in system design?
Response:

- A. To increase system complexity
- B. Should have chosen
- C. To enhance system scalability
- D. To isolate system components
- E. To reduce dependency between components

Answer: C,D,E

Question: 2

Which steps are involved in troubleshooting a failed Cilium installation?
(Choose two)

- A. Review the Cilium logs using kubectl logs
- B. Restart the Kubernetes master node
- C. Re-run the cilium install command with increased verbosity
- D. Upgrade the Kubernetes version to 1.20

Answer: A,C

Question: 3

In what way does eBPF impact the scalability of applications in Cilium?

- A. Limits the number of concurrent services that can be monitored
- B. Provides tools for manual scaling only
- C. Facilitates automatic scaling based on real-time metrics
- D. Offers no particular advantages for scaling

Answer: C

Question: 4

What does Hubble provide to administrators for network troubleshooting and monitoring?

- A. Detailed network hardware statistics
- B. In-depth visibility into application layer protocols and interactions
- C. Physical network topologies
- D. Energy consumption metrics for network devices

Answer: B

Question: 5

What is the primary purpose of Cilium's Cluster Mesh feature?

- A. To enable multi-cluster connectivity and service discovery
- B. To provide a backup of Kubernetes configurations
- C. To monitor network traffic between pods
- D. To manage storage volumes across clusters

Answer: A

Question: 6

Cluster Mesh enhances load balancing in a multi-cluster setup by:

- A. Assigning all traffic to the cluster with the highest capacity
- B. Distributing incoming requests based on cluster health and workload distribution
- C. Restricting cross-cluster communications to non-peak hours
- D. Balancing traffic based solely on geographical location

Answer: B

Question: 7

What distinguishes eBPF-based platforms from IPtables-based platforms regarding security policy enforcement?

(Choose Two)

- A. eBPF can update security policies without restarting applications
- B. eBPF supports complex, stateful rules that are difficult with IPtables
- C. IPtables require manual intervention for each policy update
- D. IPtables provide better visibility into encrypted traffic

Answer: A,B

Question: 8

Which features are supported by Cilium's Cluster Mesh?
(Choose Two)

- A. Cross-cluster service discovery
- B. Centralized logging of all cluster events
- C. Load balancing across clusters
- D. Automatic IP address management across clusters

Answer: A,C

Question: 9

What is the first step in installing a standard software application on a server?

- A. Configure application settings
- B. Download the installation package
- C. Review software documentation
- D. Execute the installer

Answer: B

Question: 10

Cilium's Network Policies are integrated with which Kubernetes feature?

- A. ConfigMaps
- B. StatefulSets
- C. Custom Resource Definitions (CRDs)
- D. Ingress Controllers

Answer: C

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