Linux Foundation KCSA Practice Questions

Shared by Sargent on 18-08-2026

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Question 1

Question Type: MultipleChoice

Which security knowledge-base focuses specifically on offensive tools, techniques, and procedures?

Options:

A- MITRE ATT&CK
B- OWASP Top 10
C- CIS Controls
D- NIST Cybersecurity Framework

Answer:

A

Question 2

Question Type: MultipleChoice

In a cluster that contains Nodes with multiple container runtimes installed, how can a Pod be configured to be created on a specific runtime?

Options:

A- By using a command-line flag when creating the Pod.
B- By modifying the Docker daemon configuration.
C- By setting the container runtime as an environment variable in the Pod.
D- By specifying the container runtime in the Pod's YAML file.

Answer:

D

Question 3

Question Type: MultipleChoice

An attacker has successfully overwhelmed the Kubernetes API server in a cluster with a single control plane node by flooding it with requests.

How would implementing a high-availability mode with multiple control plane nodes mitigate this attack?

Options:

A- By implementing network segmentation to isolate the API server from the rest of the cluster, preventing the attack from spreading.
B- By distributing the workload across multiple API servers, reducing the load on each server.
C- By increasing the resources allocated to the API server, allowing it to handle a higher volume of requests.
D- By implementing rate limiting and throttling mechanisms on the API server to restrict the number of requests allowed.

Answer:

B

Question 4

Question Type: MultipleChoice

What information is stored in etcd?

Options:

A- Etcd manages the configuration data, state data, and metadata for Kubernetes.
B- Application logs and monitoring data for auditing and troubleshooting purposes.
C- Sensitive user data such as usernames and passwords.
D- Pod data contained in Persistent Volume Claims (e.g. hostPath).

Answer:

A

Question 5

Question Type: MultipleChoice

What is Grafana?

Options:

A- A cloud-native distributed tracing system for monitoring microservices architectures.
B- A container orchestration platform for managing and scaling applications.
C- A platform for monitoring and visualizing time-series data.
D- A cloud-native security tool for scanning and detecting vulnerabilities in Kubernetes clusters.

Answer:

C

Question 6

Question Type: MultipleChoice

Which of the following statements correctly describes a container breakout?

Options:

A- A container breakout is the process of escaping the container and gaining access to the Pod's network traffic.
B- A container breakout is the process of escaping a container when it reaches its resource limits.
C- A container breakout is the process of escaping the container and gaining access to the cloud provider's infrastructure.
D- A container breakout is the process of escaping the container and gaining access to the host operating system.

Answer:

D

Question 7

Question Type: MultipleChoice

Which option best statements on static Pods is true?

Options:

A- The kubelet can run static Pods that span multiple nodes, provided that it has the necessary privileges from the API server.
B- The kubelet can run a maximum of 5 static Pods on each node.
C- The kubelet schedules static Pods local to its node without going through the kube-scheduler, making tracking and managing them difficult.
D- The kubelet only deploys static Pods when the kube-scheduler is unresponsive.

Answer:

C

Question 8

Question Type: MultipleChoice

What does the 'cluster-admin' ClusterRole enable when used in a RoleBinding?

Options:

A- It gives full control over every resource in the role binding's namespace, not including the namespace object for isolation purposes.
B- It gives full control over every resource in the cluster and in all namespaces.
C- It gives full control over every resource in the role binding's namespace, including the namespace itself.
D- It allows read/write access to most resources in the role binding's namespace. This role does not allow write access to resource quota, to the namespace itself, and to EndpointSlices (or Endpoints).

Answer:

B