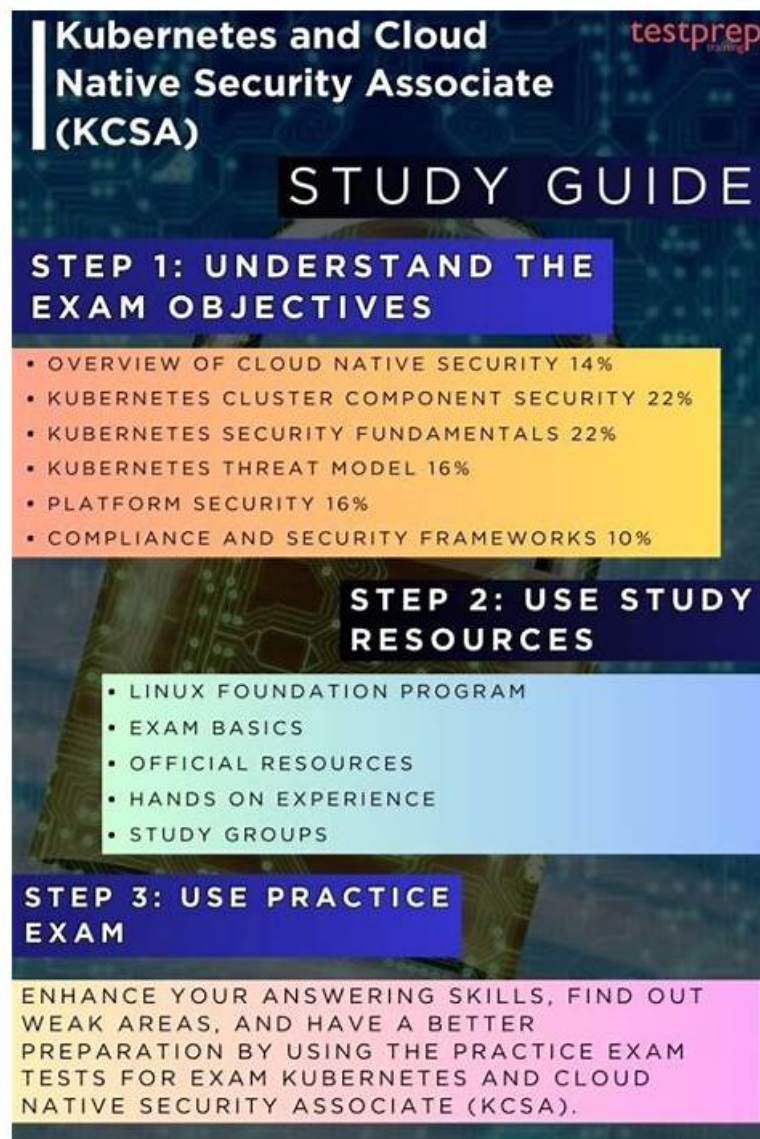


KCSA Exam with Accurate Linux Foundation Kubernetes and Cloud Native Security Associate PDF Questions



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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	• Platform Security: This section of the exam measures the skills of a Cloud Security Architect and encompasses broader platform-wide security concerns. This includes securing the software supply chain from image development to deployment, implementing observability and service meshes, managing Public Key Infrastructure (PKI), controlling network connectivity, and using admission controllers to enforce security policies.

Topic 2	• Compliance and Security Frameworks: This section of the exam measures the skills of a Compliance Officer and focuses on applying formal structures to ensure security and meet regulatory demands. It covers working with industry-standard compliance and threat modeling frameworks, understanding supply chain security requirements, and utilizing automation tools to maintain and prove an organization's security posture.
Topic 3	• Kubernetes Security Fundamentals: This section of the exam measures the skills of a Kubernetes Administrator and covers the primary security mechanisms within Kubernetes. This includes implementing pod security standards and admissions, configuring robust authentication and authorization systems like RBAC, managing secrets properly, and using network policies and audit logging to enforce isolation and monitor cluster activity.
Topic 4	• Overview of Cloud Native Security: This section of the exam measures the skills of a Cloud Security Architect and covers the foundational security principles of cloud-native environments. It includes an understanding of the 4Cs security model, the shared responsibility model for cloud infrastructure, common security controls and compliance frameworks, and techniques for isolating resources and securing artifacts like container images and application code.

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q25-Q30):

NEW QUESTION # 25

Given a standard Kubernetes cluster architecture comprising a single control plane node (hosting both etcd and the control plane as Pods) and three worker nodes, which of the following data flows crosses a trust boundary?

- A. From kubelet to Controller Manager
- B. From API Server to Container Runtime
- C. From kubelet to API Server
- D. From kubelet to Container Runtime

Answer: C

Explanation:

* Trust boundaries exist where data flows between different security domains.

* In Kubernetes:

* Communication between the kubelet (node agent) and the API Server (control plane) crosses the node-to-control-plane trust boundary.

* (A) Kubelet to container runtime is local, no boundary crossing.

* (C) Kubelet does not communicate directly with the controller manager.

* (D) API server does not talk directly to the container runtime; it delegates to kubelet.

* Therefore, (B) is the correct trust boundary crossing flow.

References:

CNCF Security Whitepaper - Kubernetes Threat Model: identifies node-to-control-plane communications (kubelet # API Server) as crossing trust boundaries.

Kubernetes Documentation - Cluster Architecture

NEW QUESTION # 26

In a Kubernetes environment, what kind of Admission Controller can modify resource manifests when applied to the Kubernetes API to fix misconfigurations automatically?

- A. MutatingAdmissionController
- B. PodSecurityPolicy
- C. ValidatingAdmissionController
- D. ResourceQuota

Answer: A

Explanation:

- * Kubernetes Admission Controllers can either validate or mutate incoming requests.
- * MutatingAdmissionWebhook (Mutating Admission Controller):
 - * Can modify or mutate resource manifests before they are persisted in etcd.
 - * Used for automatic injection of sidecars (e.g., Istio Envoy proxy), setting default values, or fixing misconfigurations.
- * ValidatingAdmissionWebhook (Validating Admission Controller): only allows/denies but does not change requests.
- * PodSecurityPolicy: deprecated; cannot mutate requests.
- * ResourceQuota: enforces resource usage, but does not mutate manifests.

Exact Extract:

- * "Mutating admission webhooks are invoked first, and can modify objects to enforce defaults. Validating admission webhooks are invoked second, and can reject requests to enforce invariants."

References:

Kubernetes Docs - Admission Controllers: <https://kubernetes.io/docs/reference/access-authn-authz/admission-controllers/>

Kubernetes Docs - Admission Webhooks: <https://kubernetes.io/docs/reference/access-authn-authz/extensible-admission-controllers/>

NEW QUESTION # 27

How can a user enforce the Pod Security Standard without third-party tools?

- A. It is only possible to enforce the Pod Security Standard with additional tools within the cloud native ecosystem.
- B. Use the PodSecurity admission controller.
- C. No additional measures have to be taken to enforce the Pod Security Standard.
- D. Through implementing Kyverno or OPA Policies.

Answer: B

Explanation:

- * The PodSecurity admission controller (built-in as of Kubernetes v1.23+) enforces the Pod Security Standards (Privileged, Baseline, Restricted).
- * Enforcement is namespace-scoped and configured through namespace labels.
- * Incorrect options:
 - * (A) Kyverno/OPA are external policy tools (useful but not required).
 - * (C) Not true, PodSecurity admission provides native enforcement.
 - * (D) Enforcement requires explicit configuration, not automatic.

References:

Kubernetes Documentation - Pod Security Admission

CNCF Security Whitepaper - Policy enforcement and admission control.

NEW QUESTION # 28

As a Kubernetes and Cloud Native Security Associate, a user can set up audit logging in a cluster. What is the risk of logging every event at the fullRequestResponse level?

- A. Reduced storage requirements and faster performance.

- B. No risk, as it provides the most comprehensive audit trail.
- **C. Increased storage requirements and potential impact on performance.**
- D. Improved security and easier incident investigation.

Answer: C

Explanation:

- * Audit logging records API server requests and responses for security monitoring.
- * The RequestResponse level logs the full request and response bodies, which can:
- * Significantly increase storage and performance overhead.
- * Potentially log sensitive data (including Secrets).
- * Therefore, while comprehensive, it introduces risks of performance degradation and excessive log volume.

References:

Kubernetes Documentation - Auditing

CNCF Security Whitepaper - Logging and monitoring: trade-offs between verbosity, storage, and security.

NEW QUESTION # 29

A user runs a command with kubectl to apply a change to a deployment. What is the first Kubernetes component that the request reaches?

- A. Kubernetes Controller Manager
- B. Kubernetes Scheduler
- **C. Kubernetes API Server**
- D. kubelet

Answer: C

Explanation:

- * All kubectl requests go to the Kubernetes API Server.
- * The API server is the front-end of the control plane and validates/authenticates requests before other components act.
- * Exact extract (Kubernetes Docs - Components):
- * "The API server is a component of the Kubernetes control plane that exposes the Kubernetes API. It is the front end for the Kubernetes control plane."
- * Other options clarified:
- * Controller Manager: reconciles state after API Server processes the request.
- * Scheduler: assigns Pods to nodes after API Server accepts workload objects.
- * kubelet: node agent, only communicates after API Server updates desired state.

References:

Kubernetes Docs - Components: <https://kubernetes.io/docs/concepts/overview/components/>

NEW QUESTION # 30

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