

New Reliable KCSA Braindumps Ppt | Valid Linux Foundation KCSA Exam Dumps Free: Linux Foundation Kubernetes and Cloud Native Security Associate



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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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.
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.

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q58-Q63):

NEW QUESTION # 58

What kind of organization would need to be compliant with PCI DSS?

- A. Retail stores that only accept cash payments.
- B. Non-profit organizations that handle sensitive customer data.
- C. Government agencies that collect personally identifiable information.
- **D. Merchants that process credit card payments.**

Answer: D

Explanation:

* PCI DSS (Payment Card Industry Data Security Standard) applies to any entity that stores, processes, or transmits cardholder data.

* Exact extract (PCI DSS official summary):

* "PCI DSS applies to all entities that store, process or transmit cardholder data (CHD) and /or sensitive authentication data (SAD)."

* Therefore, merchants who process credit card payments must comply.

* Why others are wrong:

* A: No card payments, so no PCI scope.

* B: This falls under FISMA / NIST 800-53, not PCI DSS.

* C: Non-profits may handle sensitive data, but PCI only applies if they process credit cards.

References:

PCI Security Standards Council - PCI DSS Summary: https://www.pcisecuritystandards.org/pci_security/

NEW QUESTION # 59

What was the name of the precursor to Pod Security Standards?

- A. Kubernetes Security Context
- B. Container Runtime Security
- **C. Pod Security Policy**
- D. Container Security Standards

Answer: C

Explanation:

* Kubernetes originally had a feature called PodSecurityPolicy (PSP), which provided controls to restrict pod behavior.

* Official docs:

* "PodSecurityPolicy was deprecated in Kubernetes v1.21 and removed in v1.25."

* "Pod Security Standards (PSS) replace PodSecurityPolicy (PSP) with a simpler, policy- driven approach."

* PSP was often complex and hard to manage, so it was replaced by Pod Security Admission (PSA) which enforces Pod Security Standards.

References:

Kubernetes Docs - PodSecurityPolicy (deprecated): <https://kubernetes.io/docs/concepts/security/pod-security-policy/> Kubernetes

Blog - PodSecurityPolicy Deprecation: <https://kubernetes.io/blog/2021/04/06/podsecuritypolicy-deprecation-past-present-and-future/>

NEW QUESTION # 60

When using a cloud provider's managed Kubernetes service, who is responsible for maintaining the etcd cluster?

- A. Kubernetes administrator
- B. Application developer
- **C. Cloud provider**

- D. Namespace administrator

Answer: C

Explanation:

- * In managed Kubernetes services (EKS, GKE, AKS), the control plane is operated by the cloud provider.
- * This includes etcd, API server, controller manager, scheduler.
- * Users manage worker nodes (in some models) and workloads, but not the control plane.
- * Exact extract (GKE Docs):
- * "The control plane, including the API server and etcd database, is managed and maintained by Google."
- * Similarly for EKS and AKS, etcd is fully managed by the provider.

References:

GKE Architecture: <https://cloud.google.com/kubernetes-engine/docs/concepts/cluster-architecture> EKS Architecture: <https://docs.aws.amazon.com/eks/latest/userguide/eks-architecture.html> AKS Docs: <https://learn.microsoft.com/en-us/azure/aks/concepts-clusters-workloads>

NEW QUESTION # 61

Which way of defining security policy brings consistency, minimizes toil, and reduces the probability of misconfiguration?

- A. Relying on manual audits and inspections for security policy enforcement.
- **B. Using a declarative approach to define security policies as code.**
- C. Manually configuring security controls for each individual resource, regularly.
- D. Implementing security policies through manual scripting on an ad-hoc basis.

Answer: B

Explanation:

- * Defining policies as code (declarative) is a best practice in Kubernetes and cloud-native security.
- * This is aligned with GitOps and Policy-as-Code principles (OPA Gatekeeper, Kyverno, etc.).
- * Exact extract (CNCF Security Whitepaper):
- * "Policy-as-Code enables declarative definition and enforcement of security policies, bringing consistency, automation, and reducing misconfiguration risk."
- * Manual audits, ad-hoc scripting, or individual configurations are error-prone and inconsistent.

References:

CNCF Security Whitepaper: <https://github.com/cncf/tag-security>
Kubernetes Docs - Policy as Code (OPA, Kyverno): <https://kubernetes.io/docs/concepts/security/>

NEW QUESTION # 62

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 full RequestResponse level?

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

Answer: B

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 # 63

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