

The Linux Foundation KCSA Exam Prep Material is Provided to

KCSA Kubernetes and Cloud Native Security Certification Details	
Exam Code	KCSA
Full Exam Name	Linux Foundation Kubernetes and Cloud Native Security Associate
No. of Questions	60
Online Practice Exam	Linux Foundation Kubernetes and Cloud Native Security Associate (KCSA) Practice Test
Sample Questions	Linux Foundation KCSA Sample Questions
Passing Score	75%
Time Limit	90 minutes
Exam Fees	\$250 USD

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Just like the saying goes, it is good to learn at another man's cost. In the process of learning, it is more important for all people to have a good command of the method from other people. The KCSA study materials from our company will help you find the good study method from other people. Using the KCSA Study Materials from our company, you can not only pass your exam, but also you will have the chance to learn about the different and suitable study skills. We believe these skills will be very useful for you near life.

Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 3	<ul style="list-style-type: none"> Kubernetes Threat Model: This section of the exam measures the skills of a Cloud Security Architect and involves identifying and mitigating potential threats to a Kubernetes cluster. It requires understanding common attack vectors like privilege escalation, denial of service, malicious code execution, and network-based attacks, as well as strategies to protect sensitive data and prevent an attacker from gaining persistence within the environment.
Topic 4	<ul style="list-style-type: none"> 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.

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q27-Q32):

NEW QUESTION # 27

Which of the following statements correctly describes a container breakout?

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

Answer: C

Explanation:

* Container breakout refers to an attacker escaping container isolation and reaching the host OS.

* Once the host is compromised, the attacker can access other containers, Kubernetes nodes, or escalate further.

* Exact extract (Kubernetes Security Docs):

* "If an attacker gains access to a container, they may attempt a container breakout to gain access to the host system."

* Other options clarified:

* A: Network access inside a Pod is a breakout.

* B: Resource exhaustion is a DoS, not a breakout.

* C: Cloud infrastructure compromise is possible after host compromise, but not the definition of breakout.

References:

Kubernetes Security Concepts: <https://kubernetes.io/docs/concepts/security/> CNCF Security Whitepaper (Threats section): <https://github.com/cncf/tag-security>

NEW QUESTION # 28

Which step would give an attacker a foothold in a cluster but no long-term persistence?

- A. Modify file on host filesystem.
- B. Create restarting container on host using Docker.
- C. Modify Kubernetes objects stored within etcd.
- **D. Starting a process in a running container.**

Answer: D

Explanation:

* Starting a process in a running container provides an attacker with temporary execution (foothold) inside the cluster, but once the container is stopped or restarted, that malicious process is lost. This means the attacker has no long-term persistence.

* Incorrect options:

* (A) Modifying objects in etcd grants persistent access since cluster state is stored in etcd.

* (B) Modifying files on the host filesystem can create persistence across reboots or container restarts.

* (D) Creating a restarting container directly on the host via Docker bypasses Kubernetes but persists across pod restarts if Docker restarts it.

References:

CNCF Security Whitepaper - Threat Modeling section: Describes how ephemeral processes inside containers provide attackers short-term control but not durable persistence.

Kubernetes Documentation - Cluster Threat Model emphasizes ephemeral vs. persistent attacker footholds.

NEW QUESTION # 29

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

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

Answer: A

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 # 30

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

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

Answer: D

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 # 31

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. No risk, as it provides the most comprehensive audit trail.
- B. Reduced storage requirements and faster performance.
- **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.

- * TheRequestResponse levellogs the full request and response bodies, which can:
- * Significantly increasestorage 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 # 32

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