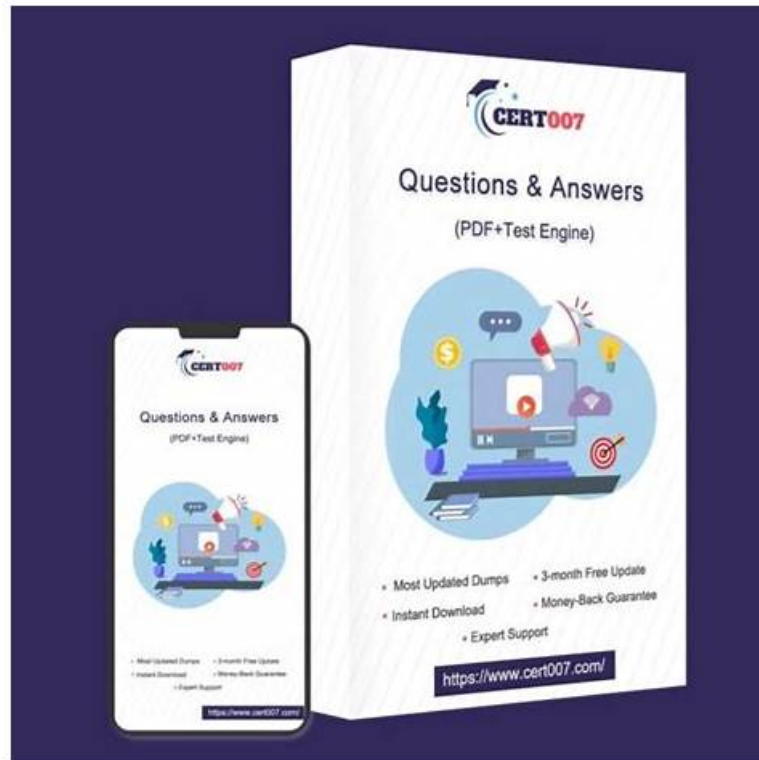# 100% Pass Quiz 2026 Perfect Linux Foundation KCSA Valid Test Test

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q49-Q54):

NEW QUESTION # 49
An attacker compromises a Pod and attempts to use its service account token to escalate privileges within the cluster. Which

Kubernetes security feature is designed to limit what this service account can do?

- A. Role-Based Access Control (RBAC)
- B. NetworkPolicy
- C. PodSecurity admission
- D. RuntimeClass

Answer: A

Explanation:
* When a Pod is created, Kubernetes automatically mounts a service account token that can authenticate to the API server.
* The Role-Based Access Control (RBAC) system defines what actions a service account can perform.
* By carefully restricting Roles and RoleBindings, administrators limit the blast radius of a compromised Pod.
* Incorrect options:
* (A) PodSecurity admission enforces workload-level security settings but does not control API access.
* (B) NetworkPolicy controls network communication, not API privileges.
* (D) RuntimeClass selects container runtimes, unrelated to privilege escalation through API tokens.
References:
Kubernetes Documentation - Using RBAC Authorization
CNCF Security Whitepaper - Identity & Access Management: limiting lateral movement by constraining service account permissions.

NEW QUESTION # 50
Which security knowledge-base focuses specifically on offensive tools, techniques, and procedures?

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

Answer: A

Explanation:
* MITRE ATT&CK is a globally recognized knowledge base of adversary tactics, techniques, and procedures (TTPs). It is focused on describing offensive behaviors attackers use.
* Incorrect options:
* (B) OWASP Top 10 highlights common application vulnerabilities, not attacker techniques.
* (C) CIS Controls are defensive best practices, not offensive tools.
* (D) NIST Cybersecurity Framework provides a risk-based defensive framework, not adversary TTPs.
References:
MITRE ATT&CK Framework
CNCF Security Whitepaper - Threat intelligence section: references MITRE ATT&CK for describing attacker behavior.

NEW QUESTION # 51
Which of the following statements is true concerning the use of microVMs over user-space kernel implementations for advanced container sandboxing?

- A. MicroVMs offer higher isolation than user-space kernel implementations at the cost of a higher per- instance memory footprint.
- B. MicroVMs allow for easier container management and orchestration than user-space kernel implementation.
- C. MicroVMs provide reduced application compatibility and higher per-system call overhead than user- space kernel implementations.
- D. MicroVMs offer lower isolation and security compared to user-space kernel implementations.

Answer: A

Explanation:
* MicroVM-based runtimes (e.g., Firecracker, Kata Containers) use lightweight VMs to provide strong isolation between workloads.

* Compared touser-space kernel implementations(e.g., gVisor), microVMs generally:
* Offerhigher isolation and security(due to VM-level separation).
* Come with ahigher memory and resource overhead per instancethan user-space approaches.
* Incorrect options:
* (A) Orchestration is handled by Kubernetes, not inherently easier with microVMs.
* (C) Compatibility is typically better with microVMs, not worse.
* (D) Isolation is stronger, not weaker.
References:
CNCF Security Whitepaper - Workload isolation: microVMs vs. user-space kernel sandboxes.
Kata Containers Project - isolation trade-offs.

NEW QUESTION # 52

A container running in a Kubernetes cluster has permission to modify host processes on the underlying node.
What combination of privileges and capabilities is most likely to have led to this privilege escalation?

* A. hostPID and SYS_PTRACE
* B. hostNetwork and NET_RAW
* C. There is no combination of privileges and capabilities that permits this.
* D. hostPath and AUDIT_WRITE

Answer: A

Explanation:
* hostPID:When enabled, the container shares the host's process namespace # container can see and potentially interact with host processes.
* SYS_PTRACE capability:Grants the container the ability to trace, inspect, and modify other processes (e.g., via ptrace).
* Combination of hostPID + SYS_PTRACE allows a container toattach to and modify host processes, which is a direct privilege escalation.
* Other options explained:
* hostPath + AUDIT_WRITE:hostPath exposes filesystem paths but does not inherently allow process modification.
* hostNetwork + NET_RAW:grants raw socket access but only for networking, not host process modification.
* A:Incorrect - such combinationsdo exist(like B).
References:
Kubernetes Docs - Configure a Pod to use hostPID: https://kubernetes.io/docs/tasks/configure-pod-container /share-process-namespace/
Linux Capabilities man page: https://man7.org/linux/man-pages/man7/capabilities.7.html

NEW QUESTION # 53

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

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

Answer: B

Explanation:
* Trust boundariesexist where data flows between different security domains.
* In Kubernetes:
* Communication between thekubelet (node agent)and theAPI 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 # 54

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