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Free PDF Quiz Linux Foundation - KCSA - Linux Foundation Kubernetes and Cloud Native Security Associate –The Best New Test Voucher

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q59-Q64):

NEW QUESTION # 59

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 host operating system.
- 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 Pod's network traffic.
- D. A container breakout is the process of escaping the container and gaining access to the cloud provider's infrastructure.

Answer: A

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 # 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 # 60

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

Answer: C

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 to attach 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 combinations do 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 # 61

Which of the following statements best describe container image signing and verification in the cloud environment?

- A. Container image signatures are mandatory in cloud environments, as cloud providers would deny the execution of unsigned container images.
- B. Container image signatures and their verification ensure their authenticity and integrity against tampering.
- C. Container image signatures are concerned with defining developer ownership of applications within multi-tenant environments.
- D. Container image signatures affect the performance of containerized applications, as they increase the size of images with additional metadata.

Answer: B

Explanation:

- * Image signing (withNotary, cosign, or similar tools) ensures that images are from a trusted source and have not been modified.
- * Exact extract (Sigstore cosign docs): "Cosign allows you to sign and verify container images to ensure authenticity and integrity."
- * Why others are wrong:
 - * B: Ownership can be inferred but it's about authenticity & integrity not tenancy.
 - * C: Not mandatory; enforcement requires admission controllers.
 - * D: Metadata size is negligible and has no runtime performance impact.

References:

Sigstore Project: <https://docs.sigstore.dev/cosign/overview>

CNCF Security Whitepaper

NEW QUESTION # 62

What is the reasoning behind considering the Cloud as the trusted computing base of a Kubernetes cluster?

- A. A Kubernetes cluster can only be trusted if the underlying Cloud provider is certified against international standards.
- **B. A Kubernetes cluster can only be as secure as the security posture of its Cloud hosting.**
- C. The Cloud enforces security controls at the Kubernetes cluster level, so application developers can focus on applications only.
- D. A vulnerability in the Cloud layer has a negligible impact on containers due to Linux isolation mechanisms.

Answer: B

Explanation:

- * The 4C's of Cloud Native Security (Cloud, Cluster, Container, Code) model starts with Cloud as the base layer.
- * If the Cloud (infrastructure layer) is compromised, every higher layer (Cluster, Container, Code) inherits that compromise.
- * Exact extract (Kubernetes Security Overview):
 - * "The 4C's of Cloud Native security are Cloud, Clusters, Containers, and Code. You can think of the 4C's as a layered approach. A Kubernetes cluster can only be as secure as the cloud infrastructure it is deployed on."
- * This means the cloud is part of the trusted computing base of a Kubernetes cluster.

References:

Kubernetes Docs - Security Overview (4C's): <https://kubernetes.io/docs/concepts/security/overview/#the-4cs-of-cloud-native-security>

NEW QUESTION # 63

In order to reduce the attack surface of the Scheduler, which default parameter should be set to false?

- A. --scheduler-name
- **B. --profiling**
- C. --bind-address
- D. --secure-kubeconfig

Answer: B

Explanation:

- * The kube-scheduler exposes a profiling/debugging endpoint when --profiling=true (default).
- * This can unnecessarily increase the attack surface.
- * Best practice: set --profiling=false in production.
- * Exact extract (Kubernetes Docs - kube-scheduler flags):
 - * "--profiling (default true): Enable profiling via web interface host:port/debug/pprof."
- * Why others are wrong:
 - * --scheduler-name: just identifies the scheduler, not a security risk.
 - * --secure-kubeconfig: not a valid flag.
 - * --bind-address: changing it limits exposure but is not the default risk parameter for profiling.

References:

Kubernetes Docs - kube-scheduler options: <https://kubernetes.io/docs/reference/command-line-tools-reference/kube-scheduler/>

NEW QUESTION # 64

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