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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q11-Q16):

NEW QUESTION # 11

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 # 12

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

- A. MicroVMs offer lower isolation and security compared to user-space kernel implementations.
- 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 higher isolation than user-space kernel implementations at the cost of a higher per-instance memory footprint.

Answer: D

Explanation:

- * MicroVM-based runtimes (e.g., Firecracker, Kata Containers) use lightweight VMs to provide strong isolation between workloads.
- * Compared to user-space kernel implementations (e.g., gVisor), microVMs generally:
- * Offer higher isolation and security (due to VM-level separation).
- * Come with a higher memory and resource overhead per instance than 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 # 13

What is the purpose of the Supplier Assessments and Reviews control in the NIST 800-53 Rev. 5 set of controls for Supply Chain Risk Management?

- A. To establish contractual agreements with suppliers.
- B. To identify potential suppliers for the organization.
- C. To conduct regular audits of suppliers' financial performance.
- D. To evaluate and monitor existing suppliers for adherence to security requirements.

Answer: D

Explanation:

* In NIST SP 800-53 Rev. 5, SR-6: Supplier Assessments and Reviews requires evaluating and monitoring suppliers' security and risk practices.

* Exact extract (NIST SP 800-53 Rev. 5, SR-6):

* "The organization assesses and monitors suppliers to ensure they are meeting the security requirements specified in contracts and agreements."

* This is about ongoing monitoring of supplier adherence, not financial audits, not contract creation, and not supplier discovery.

References:

NIST SP 800-53 Rev. 5, Control SR-6 (Supplier Assessments and Reviews): <https://csrc.nist.gov/publications/detail/sp/800-53/rev-5/final>

NEW QUESTION # 14

An attacker has access to the network segment that the cluster is on.

What happens when a compromised Pod attempts to connect to the API server?

- A. The compromised Pod is allowed to connect to the API server without any restrictions.
- B. The compromised Pod is automatically isolated from the network to prevent any connections to the API server.
- **C. The compromised Pod attempts to connect to the API server, but its requests may be blocked due to network policies.**
- D. The compromised Pod connects to the API server and is granted elevated privileges by default.

Answer: C

Explanation:

* By default, Pods can connect to the API server (since ServiceAccount tokens are mounted).

* However, whether they succeed in acting depends on:

* Network Policies (may block egress).

* RBAC (controls permissions).

* Exact extract (Kubernetes Docs - API Access):

* "Pods authenticate to the API server using the service account token mounted into the Pod.

Authorization is then enforced by RBAC. Network Policies may further restrict access."

* Clarifications:

* A: No default automatic isolation.

* B: Not always unrestricted; policies may apply.

* D: Pods get minimal default privileges, not automatic elevation.

References:

Kubernetes Docs - API Access to Pods: <https://kubernetes.io/docs/concepts/security/service-accounts/> Kubernetes Docs -

Network Policies: <https://kubernetes.io/docs/concepts/services-networking/network-policies/>

NEW QUESTION # 15

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

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

Answer: B

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 # 16

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