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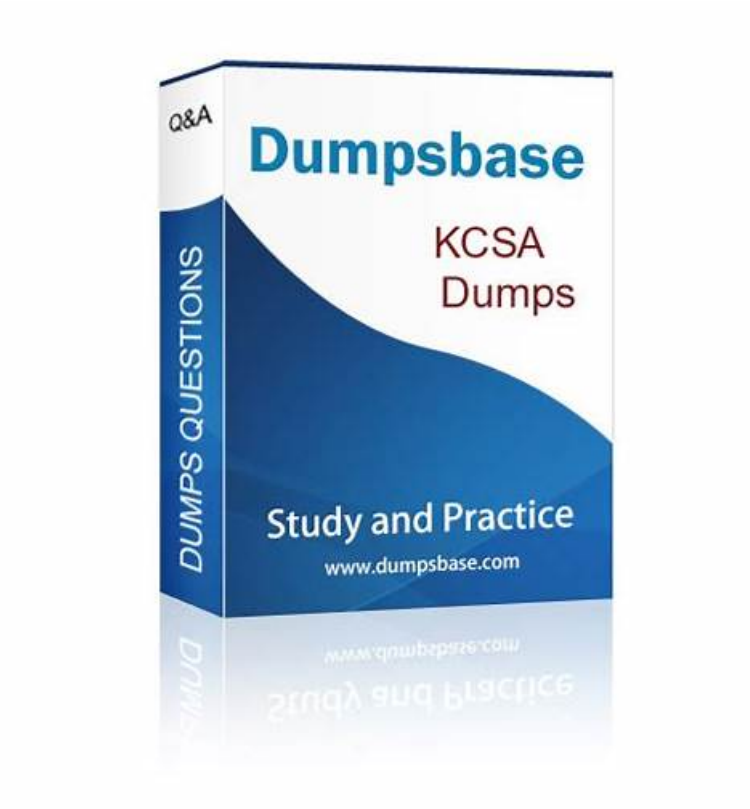

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q27-Q32):

NEW QUESTION # 27

In a cluster that contains Nodes withmultiple container runtimesinstalled, how can a Pod be configured to be created on a specific runtime?

- A. By modifying the Docker daemon configuration.
- B. By setting the container runtime as an environment variable in the Pod.
- C. By specifying the container runtime in the Pod's YAML file.
- D. By using a command-line flag when creating the Pod.

Answer: C

Explanation:
* Kubernetes supportsmultiple container runtimeson a node via theRuntimeClassresource.
* To select a runtime, you specify the runtimeClassName field in thePod's YAML manifest. Example:
* apiVersion: v1
* kind: Pod
* metadata:
* name: example
* spec:
* runtimeClassName: gvisor
* containers:
* - name: app
* image: nginx
* Incorrect options:
* (A) You cannot specify container runtime through a kubectl command-line flag.
* (B) Modifying the Docker daemon config does not direct Kubernetes Pods to a runtime.
* (C) Environment variables inside a Pod spec do not control container runtimes.
References:
Kubernetes Documentation - RuntimeClass
CNCF Security Whitepaper - Workload isolation via different runtimes (e.g., gVisor, Kata) for enhanced security.

NEW QUESTION # 28
Why does the defaultbase64 encodingthat Kubernetes applies to the contents of Secret resources provide inadequate protection?

- A. Base64 encoding does not encrypt the contents of the Secret, only obfuscates it.
- B. Base64 encoding relies on a shared key which can be easily compromised.
- C. Base64 encoding is not supported by all Secret Stores.
- D. Base64 encoding is vulnerable to brute-force attacks.

Answer: A

Explanation:
* Kubernetes stores Secret data asbase64-encoded stringsin etcd by default.
* Base64 is not encryption- it is a simple encoding scheme that merelyobfuscatesdata for transport and storage. Anyone with read access to etcd or the Secret manifest can easily decode the value back to plaintext.
* For actual protection, Kubernetes supportsencryption at rest(via encryption providers) and external Secret management (Vault, KMS, etc.).
References:
Kubernetes Documentation - Secrets
CNCF Security Whitepaper - Data protection section: highlights that base64 encoding does not protect data and encryption at rest is recommended.

NEW QUESTION # 29
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 tolimit what this service account can do?

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

Answer: A

Explanation:
* When a Pod is created, Kubernetes automatically mounts aservice account tokenthat can authenticate to the API server.
* TheRole-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 admissionenforces workload-level security settings but does not control API access.
* (B)NetworkPolicycontrols network communication, not API privileges.
* (D)RuntimeClassselects 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 # 30
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. hostPath and AUDIT_WRITE
- B. hostPID and SYS_PTRACE
- C. hostNetwork and NET_RAW
- D. There is no combination of privileges and capabilities that permits this.

Answer: B

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 # 31
Which step would give an attacker a foothold in a cluster butno long-term persistence?

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

Answer: C

Explanation:
* Starting a process in a running containerprovides an attacker withtemporary execution (foothold) inside the cluster, but once the container is stopped or restarted, that malicious process is lost. This means the attacker has nolong-term persistence.
* Incorrect options:
* (A) Modifying objects inetcdgrants persistent access since cluster state is stored in etcd.
* (B) Modifying files on thehost filesystemcan 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 howephemeral processes inside containersprovide attackers short-term control but not durable persistence.
Kubernetes Documentation - Cluster Threat Model emphasizes ephemeral vs. persistent attacker footholds.

NEW QUESTION # 32
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