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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q31-Q36):

NEW QUESTION # 31
A Kubernetes cluster tenant can launch privileged Pods in contravention of therestricted Pod Security Standardmandated for cluster tenants and enforced by the built-inPodSecurity admission controller.
The tenant has full CRUD permissions on the namespace object and the namespaced resources. How did the tenant achieve this?

- A. The scope of the tenant role means privilege escalation is impossible.
- B. By deleting the PodSecurity admission controller deployment running in their namespace.
- C. By using higher-level access credentials obtained reading secrets from another namespace.
- D. By tampering with the namespace labels.

Answer: D

Explanation:
* ThePodSecurity admission controllerenforces Pod Security Standards (Baseline, Restricted, Privileged)based on namespace labels.
* If a tenant has full CRUD on the namespace object, they canmodify the namespace labelsto remove or weaken the restriction (e.g., setting pod-security.kubernetes.io/enforce=privileged).
* This allows privileged Pods to be admitted despite the security policy.
* Incorrect options:
* (A) is false - namespace-level access allows tampering.
* (C) is invalid - PodSecurity admission is not namespace-deployed, it's a cluster-wide admission controller.
* (D) is unrelated - Secrets from other namespaces wouldn't directly bypass PodSecurity enforcement.
References:
Kubernetes Documentation - Pod Security Admission
CNCF Security Whitepaper - Admission control and namespace-level policy enforcement weaknesses.

NEW QUESTION # 32
Which step would give an attacker a foothold in a cluster butno long-term persistence?

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

Answer: B

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 # 33
In Kubernetes, what isPublic Key Infrastructure (PKI)used for?

- A. To manage certificates and ensure secure communication in a Kubernetes cluster.
- B. To automate the scaling of containers in a Kubernetes cluster.
- C. To manage networking in a Kubernetes cluster.
- D. To monitor and analyze performance metrics of a Kubernetes cluster.

Answer: A

Explanation:
* Kubernetes usesPKI certificatesextensively to secure communication between control plane components (API server, etcd, kube-scheduler, kube-controller-manager) and with kubelets.
* Certificates enablemutual TLS authentication and encryptionacross components.
* PKI does not handle scaling, networking, or monitoring.
References:
Kubernetes Documentation - Certificates
CNCF Security Whitepaper - Cluster communication security and the role of PKI.

NEW QUESTION # 34

Which of the following is a valid security risk caused by having no egress controls in a Kubernetes cluster?

- A. Increased attack surface
- B. Unauthorized access to external resources
- C. Data exfiltration
- D. Denial of Service

Answer: C

Explanation:
* Egress NetworkPoliciesrestrict outbound traffic from Pods.
* Without egress restrictions, a compromised Pod could exfiltrate sensitive data (secrets, logs, customer data) to an attacker-controlled server.
* Exact extract (Kubernetes Docs - Network Policies):
* "Egress rules control outbound connections from Pods. Without such restrictions, compromised workloads can connect freely to external endpoints."
* Other options clarified:
* A: DoS is more about flooding, not egress absence.
* C: "Increased attack surface" is vague but not the main risk.
* D: True in a sense, but the precise and most common risk isdata exfiltration.
References:
Kubernetes Docs - Network Policies: https://kubernetes.io/docs/concepts/services-networking/network- policies/

NEW QUESTION # 35
As a Kubernetes and Cloud Native Security Associate, a user can set upaudit loggingin a cluster. What is the risk of logging every event at the fullRequestResponselevel?

- A. Reduced storage requirements and faster performance.
- B. No risk, as it provides the most comprehensive audit trail.
- C. Increased storage requirements and potential impact on performance.
- D. Improved security and easier incident investigation.

Answer: C

Explanation:
* Audit loggingrecords 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 # 36
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