

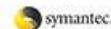
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Linux Foundation Kubernetes and Cloud Native Security Associate Sample

Questions (Q32-Q37):

NEW QUESTION # 32

Why does the default base64 encoding that Kubernetes applies to the contents of Secret resources provide inadequate protection?

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

Answer: D

Explanation:

- * Kubernetes stores Secret data as base64-encoded strings in etcd by default.
- * Base64 is not encryption- it is a simple encoding scheme that merely obfuscates data 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 supports encryption 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 # 33

Why might NetworkPolicy resources have no effect in a Kubernetes cluster?

- A. NetworkPolicy resources are only enforced for unprivileged Pods.
- B. NetworkPolicy resources are only enforced if the Kubernetes scheduler supports them.
- C. NetworkPolicy resources are only enforced if the user has the right RBAC permissions.
- D. NetworkPolicy resources are only enforced if the networking plugin supports them

Answer: D

Explanation:

- * NetworkPolicies define how Pods can communicate with each other and external endpoints.
- * However, Kubernetes itself does not enforce NetworkPolicy. Enforcement depends on the CNI plugin used (e.g., Calico, Cilium, Kube-Router, Weave Net).
- * If a cluster is using a network plugin that does not support NetworkPolicies, then creating NetworkPolicy objects has no effect.

References:

Kubernetes Documentation - Network Policies

CNCF Security Whitepaper - Platform security section: notes that security enforcement relies on CNI capabilities.

NEW QUESTION # 34

Which of the following is a control for Supply Chain Risk Management according to NIST 800-53 Rev. 5?

- A. System and Communications Protection
- B. Supply Chain Risk Management Plan
- C. Access Control
- D. Incident Response

Answer: B

Explanation:

- * NIST SP 800-53 Rev. 5 introduces a dedicated family of controls called Supply Chain Risk Management (SR).
- * Within SR, SR-2 (Supply Chain Risk Management Plan) is a specific control.
- * Exact extract from NIST 800-53 Rev. 5:
 - * "The organization develops and implements a supply chain risk management plan for the system, system component, or system service."
- * While Access Control, System and Communications Protection, and Incident Response are control families, the correct supply

chain-specific controls the Supply Chain Risk Management Plan (SR-2).

References:

NIST SP 800-53 Rev. 5 - Security and Privacy Controls for Information Systems and Organizations:

<https://csrc.nist.gov/publications/detail/sp/800-53/rev-5/final>

NEW QUESTION # 35

By default, in a Kubeadm cluster, which authentication methods are enabled?

- A. X509 Client Certs, Webhook Authentication, and Service Account Tokens
- B. OIDC, Bootstrap tokens, and Service Account Tokens
- C. X509 Client Certs, OIDC, and Service Account Tokens
- D. **X509 Client Certs, Bootstrap Tokens, and Service Account Tokens**

Answer: D

Explanation:

* In a kubeadm cluster, by default the API server enables several authentication mechanisms:

* X509 Client Certs: Used for authenticating kubelets, admins, and control-plane components.

* Bootstrap Tokens: Temporary credentials used for node bootstrap/joining clusters.

* Service Account Tokens: Used by workloads in pods to authenticate with the API server.

* Exact extract (Kubernetes Docs - Authentication):

* "Kubernetes uses client certificates, bearer tokens, an authenticating proxy, or HTTP basic auth to authenticate API requests."

* "Bootstrap tokens are a simple bearer token that is meant to be used when creating new clusters or joining new nodes to an existing cluster."

* "Service accounts are special accounts that provide an identity for processes that run in a Pod." References:

Kubernetes Docs - Authentication: <https://kubernetes.io/docs/reference/access-authn-authz/authentication/>

Kubeadm - TLS Bootstrapping: <https://kubernetes.io/docs/reference/access-authn-authz/bootstrap-tokens/>

NEW QUESTION # 36

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 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 # 37

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