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Linux Foundation Kubernetes and Cloud Native Security Associate Sample

Questions (Q32-Q37):

NEW QUESTION # 32
Why does the defaultbase64 encodingthat 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 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 # 33
Why mightNetworkPolicyresources 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 itselfdoes not enforce NetworkPolicy. Enforcement depends on theCNI 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 hasno 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 calledSupply 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 correctsupply

chain-specific controlis theSupply 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 akubeadm 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 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 # 37
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