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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q25-Q30):

NEW QUESTION # 25

On a client machine, what directory (by default) contains sensitive credential information?

- A. `$HOME/.kube`
- B. `$HOME/.config/kubernetes/`
- C. `/etc/kubernetes/`
- D. `/opt/kubernetes/secrets/`

Answer: A

Explanation:

- * The `kubectl` client uses configuration from `$HOME/.kube/config` by default.
- * This file contains: cluster API server endpoint, user certificates, tokens, or kubeconfigs #sensitive credentials.
- * Exact extract (Kubernetes Docs - Configure Access to Clusters):

* "By default, kubectl looks for a file named config in the \$HOME/.kube directory. This file contains configuration information including user credentials."

* Other options clarified:

* A: /etc/kubernetes/ exists on nodes (control plane) not client machines.

* C: /opt/kubernetes/secrets/ is not a standard path.

* D: \$HOME/.config/kubernetes/ is not where kubeconfig is stored by default.

References:

Kubernetes Docs - Configure Access to Clusters: <https://kubernetes.io/docs/concepts/configuration/organize-cluster-access-kubeconfig/>

NEW QUESTION # 26

As a Kubernetes and Cloud Native Security Associate, a user can set up audit logging in a cluster. What is the risk of logging every event at the fullRequestResponse level?

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

Answer: B

Explanation:

* Audit logging records API server requests and responses for security monitoring.

* The RequestResponse level logs the full request and response bodies, which can:

* Significantly increase storage 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 # 27

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

- A. Base64 encoding relies on a shared key which can be easily compromised.
- B. Base64 encoding is not supported by all Secret Stores.
- 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 # 28

Which of the following statements best describes the role of the Scheduler in Kubernetes?

- A. The Scheduler is responsible for ensuring the security of the Kubernetes cluster and its components.
- B. The Scheduler is responsible for managing the deployment and scaling of applications in the Kubernetes cluster.

- C. The Scheduler is responsible for assigning Pods to nodes based on resource availability and other constraints.
- D. The Scheduler is responsible for monitoring and managing the health of the Kubernetes cluster.

Answer: C

Explanation:

- * The Kubernetes Scheduler assigns Pods to nodes based on:
- * Resource requests & availability (CPU, memory, GPU, etc.)
- * Constraints (affinity, taints, tolerations, topology, policies)
- * Exact extract (Kubernetes Docs - Scheduler):
- * "The scheduler is a control plane process that assigns Pods to Nodes. Scheduling decisions take into account resource requirements, affinity/anti-affinity, constraints, and policies."
- * Other options clarified:
- * A: Monitoring cluster health is the Controller Manager's/kubelet's job.
- * B: Security is enforced through RBAC, admission controllers, PSP/PSA, not the scheduler.
- * C: Deployment scaling is handled by the Controller Manager (Deployment/ReplicaSet controller).

References:

Kubernetes Docs - Scheduler: <https://kubernetes.io/docs/concepts/scheduling-eviction/kube-scheduler/>

NEW QUESTION # 29

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

- A. X509 Client Certs, Webhook Authentication, and Service Account Tokens
- B. X509 Client Certs, OIDC, and Service Account Tokens
- C. OIDC, Bootstrap tokens, 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 # 30

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