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Certs Exam Linux Foundation - KCSA

✦ "Admission webhooks can be used to enforce custom policies on the objects being admitted." (e.g., validating signatures).

References:

Kubernetes Docs — Admission Controllers: <https://kubernetes.io/docs/reference/access-authn-authz/admission-controllers/>

Sigstore Project (cosign): <https://sigstore.dev/>

Kyverno ImageVerify Policy: <https://kyverno.io/policies/pod-security/require-image-verification/>

Question #7: [Compliance and Security Frameworks]

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 full **RequestResponse** level?

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

Answer: B

✦ **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.

Question #8: [Kubernetes Threat Model / Multi-Tenancy]

When should soft multitenancy be used over hard multitenancy?

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q16-Q21):

NEW QUESTION # 16

What does the `cluster-admin` ClusterRole enable when used in a RoleBinding?

- A. It gives full control over every resource in the role binding's namespace, not including the namespace object for isolation purposes.
- B. It allows read/write access to most resources in the role binding's namespace. This role does not allow write access to resource quota, to the namespace itself, and to EndpointSlices (or Endpoints).
- **C. It gives full control over every resource in the cluster and in all namespaces.**
- D. It gives full control over every resource in the role binding's namespace, including the namespace itself.

Answer: C

Explanation:

* The `cluster-admin` ClusterRole is a superuser role in Kubernetes.

* Binding it (via RoleBinding or ClusterRoleBinding) grants unrestricted control over all resources in the cluster, across all namespaces.

* This includes management of cluster-scoped resources (nodes, CRDs, RBAC rules) and namespace-scoped resources.

* Therefore, `cluster-admin` is equivalent to root-level access in Kubernetes and must be used with extreme caution.

References:

Kubernetes Documentation - Default Roles and Role Bindings

CNCF Security Whitepaper - Identity and Access Management: cautions against assigning `cluster-admin` broadly due to its unrestricted nature.

NEW QUESTION # 17

What is the purpose of an egress NetworkPolicy?

- A. To control the outbound network traffic from a Kubernetes cluster.
- **B. To control the outgoing network traffic from one or more Kubernetes Pods.**
- C. To secure the Kubernetes cluster against unauthorized access.
- D. To control the incoming network traffic to a Kubernetes cluster.

Answer: B

Explanation:

* NetworkPolicy controls network traffic at the Pod level.

* Ingress rules: control incoming connections to Pods.

* Egress rules: control outgoing connections from Pods.

* Exact extract (Kubernetes Docs - Network Policies):

* "An egress rule controls outgoing connections from Pods that match the policy."

* Clarifying wrong answers:

* A/B: Too broad (cluster-level); policies apply per Pod/namespace.

* C: Security against unauthorized access is broader than egress policies.

References:

Kubernetes Docs - Network Policies: <https://kubernetes.io/docs/concepts/services-networking/network-policies/>

NEW QUESTION # 18

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

- **A. \$HOME/.kube**
- B. /opt/kubernetes/secrets/

- C. \$HOME/.config/kubernetes/
- D. /etc/kubernetes/

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 # 19

In Kubernetes, what is Public Key Infrastructure (PKI) used for?

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

Answer: B

Explanation:

- * Kubernetes uses PKI certificates extensively to secure communication between control plane components (API server, etcd, kube-scheduler, kube-controller-manager) and with kubelets.
- * Certificates enable mutual TLS authentication and encryption across 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 # 20

In a Kubernetes cluster, what are the security risks associated with using ConfigMaps for storing secrets?

- A. ConfigMaps store sensitive information in etcd encoded in base64 format automatically, which does not ensure confidentiality of data.
- B. Storing secrets in ConfigMaps does not allow for fine-grained access control via RBAC.
- C. Using ConfigMaps for storing secrets might make applications incompatible with the Kubernetes cluster.
- **D. Storing secrets in ConfigMaps can expose sensitive information as they are stored in plaintext and can be accessed by unauthorized users.**

Answer: D

Explanation:

- * ConfigMaps are explicitly not for confidential data.
- * Exact extract (ConfigMap concept): "A ConfigMap is an API object used to store non-confidential data in key-value pairs."
- * Exact extract (ConfigMap concept): "ConfigMaps are not intended to hold confidential data. Use a Secret for confidential data."
- * Why this is risky: data placed into a ConfigMap is stored as regular (plaintext) string values in the API and etcd (unless you deliberately use binaryData for base64 content you supply). That means if someone has read access to the namespace or to etcd/API Server storage, they can view the values.
- * Secrets vs ConfigMaps (to clarify distractor D):
- * Exact extract (Secret concept): "By default, secret data is stored as unencrypted base64-encoded strings. You can enable

encryption at rest to protect Secrets stored in etcd."

* This base64 behavior applies to Secrets, not to ConfigMap data. Thus option Dis is incorrect for ConfigMaps.

* About RBAC (to clarify distractor A): Kubernetes does support fine-grained RBAC for both ConfigMaps and Secrets; the issue isn't lack of RBAC but that ConfigMaps are not designed for confidential material.

* About compatibility (to clarify distractor C): Using ConfigMaps for secrets doesn't make apps "incompatible"; it's simply insecure and against guidance.

References:

Kubernetes Docs - ConfigMaps: <https://kubernetes.io/docs/concepts/configuration/configmap/> Kubernetes Docs - Secrets:

<https://kubernetes.io/docs/concepts/configuration/secret/> Kubernetes Docs - Encrypting Secret Data at Rest:

<https://kubernetes.io/docs/tasks/administer-cluster/encrypt-data/>

Note: The citations above are from the official Kubernetes documentation and reflect the stated guidance that ConfigMaps are for non-confidential data, while Secrets (with encryption at rest enabled) are for confidential data, and that the 4C's map to defense in depth.

NEW QUESTION # 21

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