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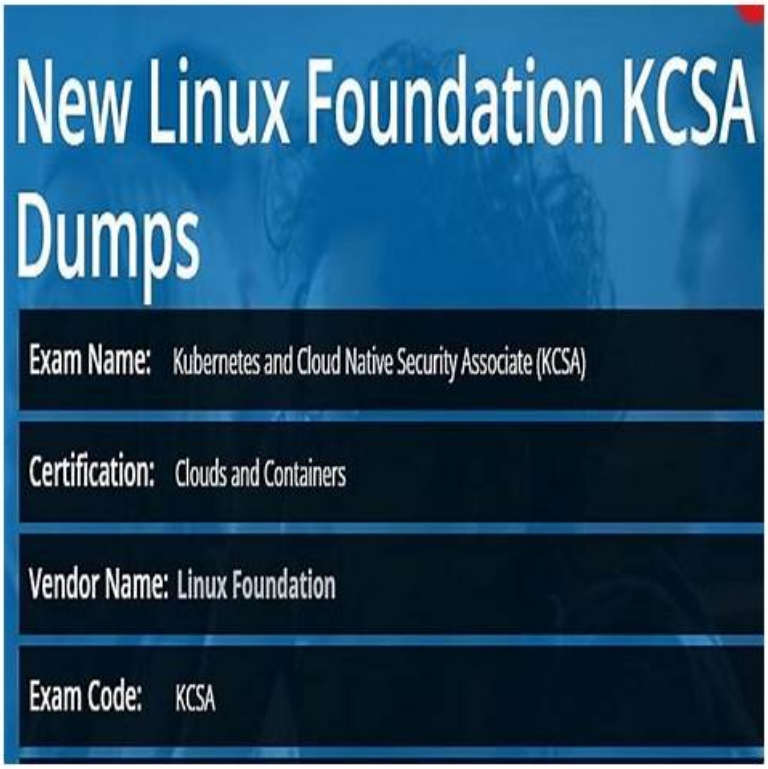

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q36-Q41):

NEW QUESTION # 36
To restrict the kubelet's rights to the Kubernetes API, whatauthorization modeshould be set on the Kubernetes API server?

- A. kubelet
- B. AlwaysAllow
- C. Webhook
- D. Node

Answer: D

Explanation:
* TheNode authorization modeis designed to specifically limit what kubelets can do when they connect to the Kubernetes API server.
* It authorizes requests from kubelets based on the Pods scheduled to run on their nodes, ensuring kubelets cannot interact with resources beyond their scope.
* Incorrect options:
* (B)AlwaysAllowallows unrestricted access (insecure).
* (C) No kubelet authorization mode exists.
* (D)Webhookmode delegates authorization decisions to an external service, not specifically for kubelets.
References:
Kubernetes Documentation - Node Authorization
CNCF Security Whitepaper - Access control: kubelet authorization and Node authorizer.

NEW QUESTION # 37
What is the reasoning behind considering the Cloud as the trusted computing base of a Kubernetes cluster?

- A. A Kubernetes cluster can only be as secure as the security posture of its Cloud hosting.
- B. A Kubernetes cluster can only be trusted if the underlying Cloud provider is certified against international standards.
- C. The Cloud enforces security controls at the Kubernetes cluster level, so application developers can focus on applications only.
- D. A vulnerability in the Cloud layer has a negligible impact on containers due to Linux isolation mechanisms.

Answer: A

Explanation:
* The4C's of Cloud Native Security(Cloud, Cluster, Container, Code) model starts withCloudas the base layer.
* If the Cloud (infrastructure layer) is compromised, every higher layer (Cluster, Container, Code) inherits that compromise.
* Exact extract (Kubernetes Security Overview):
* "The 4C's of Cloud Native security are Cloud, Clusters, Containers, and Code. You can think of the 4C's as a layered approach. A Kubernetes cluster can only be as secure as the cloud infrastructure it is deployed on."
* This means the cloud is part of thetrusted computing baseof a Kubernetes cluster.
References:
Kubernetes Docs - Security Overview (4C's): https://kubernetes.io/docs/concepts/security/overview/#the-4cs-of-cloud-native-security

NEW QUESTION # 38
An attacker compromises a Pod and attempts to use its service account token to escalate privileges within the cluster. Which Kubernetes security feature is designed tolimit what this service account can do?

- A. RuntimeClass
- B. Role-Based Access Control (RBAC)
- C. PodSecurity admission
- D. NetworkPolicy

Answer: B

Explanation:
* When a Pod is created, Kubernetes automatically mounts aservice account tokenthat can authenticate to the API server.
* TheRole-Based Access Control (RBAC)system defines what actions a service account can perform.
* By carefully restricting Roles and RoleBindings, administrators limit the blast radius of a compromised Pod.
* Incorrect options:
* (A)PodSecurity admissionenforces workload-level security settings but does not control API access.

* (B)NetworkPolicycontrols network communication, not API privileges.
* (D)RuntimeClassselects container runtimes, unrelated to privilege escalation through API tokens.
References:
Kubernetes Documentation - Using RBAC Authorization
CNCF Security Whitepaper - Identity & Access Management: limiting lateral movement by constraining service account permissions.

NEW QUESTION # 39
You are responsible for securing thekubeletcomponent in a Kubernetes cluster.
Which of the following statements about kubelet security is correct?

- A. Kubelet supports TLS authentication and encryption for secure communication with the API server.
- B. Kubelet does not have any built-in security features.
- C. Kubelet runs as a privileged container by default.
- D. Kubelet requires root access to interact with the host system.

Answer: A

Explanation:
* Thekubeletis the primary agent that runs on each node in a Kubernetes cluster and communicates with the control plane.
* Kubeletsupports TLS (Transport Layer Security)for both authentication and encryption when interacting with the API server. This is a core security feature that ensures secure node-to-control-plane communication.
* Incorrect options:
* (A) Kubelet does not run as a privileged container by default; it runs as a system process (typically systemd-managed) on the host.
* (B) Kubelet does include built-in security features such asTLS authentication, authorization modes, and read-only vs secured ports.
* (D) While kubelet interacts with the host system (e.g., cgroups, container runtimes), it does not inherently require root access for communication security; RBAC and TLS handle authentication.
References:
Kubernetes Documentation - Kubelet authentication/authorization
CNCF Security Whitepaper - Cluster Component Security (discusses TLS and mutual authentication between kubelet and API server).

NEW QUESTION # 40
A user runs a command with kubectl to apply a change to a deployment. What is the first Kubernetes component that the request reaches?

- A. kubelet
- B. Kubernetes Scheduler
- C. Kubernetes API Server
- D. Kubernetes Controller Manager

Answer: C

Explanation:
* Allkubectl requestsgo to theKubernetes API Server.
* The API server is thefront-end of the control planeand validates/authenticates requests before other components act.
* Exact extract (Kubernetes Docs - Components):
* "The API server is a component of the Kubernetes control plane that exposes the Kubernetes API. It is the front end for the Kubernetes control plane."
* Other options clarified:
* Controller Manager: reconciles state after API Server processes the request.
* Scheduler: assigns Pods to nodes after API Server accepts workload objects.
* kubelet: node agent, only communicates after API Server updates desired state.
References:
Kubernetes Docs - Components: https://kubernetes.io/docs/concepts/overview/components/

NEW QUESTION # 41
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