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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	Platform Security: This section of the exam measures the skills of a Cloud Security Architect and encompasses broader platform-wide security concerns. This includes securing the software supply chain from image development to deployment, implementing observability and service meshes, managing Public Key Infrastructure (PKI), controlling network connectivity, and using admission controllers to enforce security policies.
Topic 2	Overview of Cloud Native Security: This section of the exam measures the skills of a Cloud Security Architect and covers the foundational security principles of cloud-native environments. It includes an understanding of the 4Cs security model, the shared responsibility model for cloud infrastructure, common security controls and compliance frameworks, and techniques for isolating resources and securing artifacts like container images and application code.
Topic 3	Kubernetes Security Fundamentals: This section of the exam measures the skills of a Kubernetes Administrator and covers the primary security mechanisms within Kubernetes. This includes implementing pod security standards and admissions, configuring robust authentication and authorization systems like RBAC, managing secrets properly, and using network policies and audit logging to enforce isolation and monitor cluster activity.

Topic 4	• Compliance and Security Frameworks: This section of the exam measures the skills of a Compliance Officer and focuses on applying formal structures to ensure security and meet regulatory demands. It covers working with industry-standard compliance and threat modeling frameworks, understanding supply chain security requirements, and utilizing automation tools to maintain and prove an organization's security posture.
Topic 5	• Kubernetes Cluster Component Security: This section of the exam measures the skills of a Kubernetes Administrator and focuses on securing the core components that make up a Kubernetes cluster. It encompasses the security configuration and potential vulnerabilities of essential parts such as the API server, etcd, kubelet, container runtime, and networking elements, ensuring each component is hardened against attacks.

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q55-Q60):

NEW QUESTION # 55

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

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

Answer: A

Explanation:

* In 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 # 56

What mechanism can I use to block unsigned images from running in my cluster?

- **A. Enabling Admission Controllers to validate image signatures.**
- B. Configuring Container Runtime Interface (CRI) to enforce image signing and validation.
- C. Using Pod Security Standards (PSS) to enforce validation of signatures.
- D. Using PodSecurityPolicy (PSP) to enforce image signing and validation.

Answer: A

Explanation:

* Kubernetes Admission Controllers (particularly Validating Admission Webhooks) can be used to enforce policies that validate image signatures.

* This is commonly implemented with tools like Sigstore/cosign, Kyverno, or OPA Gatekeeper.

* Pod Security Policy (PSP): deprecated and never supported image signature validation.

* Pod Security Standards (PSS): only apply to pod security fields (privilege, users, host access), not image signatures.

* CRI: while runtimes (containerd, CRI-O) may integrate with signature verification tools, enforcement in Kubernetes is generally done via Admission Controllers at the API layer.

Exact extract (Admission Controllers docs):

* "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 Image Verify Policy: <https://kyverno.io/policies/pod-security/require-image-verification/>

NEW QUESTION # 57

Which standard approach to security is augmented by the 4C's of Cloud Native security?

- **A. Defense-in-Depth**
- B. Secure-by-Design
- C. Least Privilege
- D. Zero Trust

Answer: A

Explanation:

* The 4C's model (Cloud, Cluster, Container, Code) is presented in the official Kubernetes documentation as a layered model that explicitly maps to defense-in-depth.

* Exact extracts from Kubernetes docs (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 to security; applying security measures at each layer reduces risk."

* "This layered approach is commonly known as defense in depth."

References:

Kubernetes Docs - Security overview #The 4C's of Cloud Native Security: <https://kubernetes.io/docs/concepts/security/overview/#the-4cs-of-cloud-native-security>

NEW QUESTION # 58

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

- **A. \$HOME/.kube**
- B. /etc/kubernetes/
- C. /opt/kubernetes/secrets/
- D. \$HOME/.config/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 # 59

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 to limit what this service account can do?

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

Answer: A

Explanation:

- * When a Pod is created, Kubernetes automatically mounts a service account token that can authenticate to the API server.
- * The Role-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 admission enforces workload-level security settings but does not control API access.
- * (B) NetworkPolicy controls network communication, not API privileges.
- * (D) RuntimeClass selects 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 # 60

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