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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
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Topic 1	<ul style="list-style-type: none"> • 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.
Topic 2	<ul style="list-style-type: none"> • 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 3	<ul style="list-style-type: none"> • 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 4	<ul style="list-style-type: none"> • 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 5	<ul style="list-style-type: none"> • 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.

Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q38-Q43):

NEW QUESTION # 38

Given a standard Kubernetes cluster architecture comprising a single control plane node (hosting both etcd and the control plane as Pods) and three worker nodes, which of the following data flows crosses a trust boundary?

- A. From kubelet to Container Runtime
- **B. From kubelet to API Server**
- C. From API Server to Container Runtime
- D. From kubelet to Controller Manager

Answer: B

Explanation:

* Trust boundaries exist where data flows between different security domains.

* In Kubernetes:

* Communication between the kubelet (node agent) and the API Server (control plane) crosses the node-to-control-plane trust boundary.

* (A) Kubelet to container runtime is local, no boundary crossing.

* (C) Kubelet does not communicate directly with the controller manager.

* (D) API server does not talk directly to the container runtime; it delegates to kubelet.

* Therefore, (B) is the correct trust boundary crossing flow.

References:

CNCF Security Whitepaper - Kubernetes Threat Model: identifies node-to-control-plane communications (kubelet # API Server) as crossing trust boundaries.

Kubernetes Documentation - Cluster Architecture

NEW QUESTION # 39

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

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 # 40

You are responsible for securing the kubelet component 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:

- * The kubelet is the primary agent that runs on each node in a Kubernetes cluster and communicates with the control plane.
- * Kubelet supports 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 as TLS 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 # 41

Which of the following statements regarding a container run with privileged: true is correct?

- **A. A container run with privileged: true has no additional access to Secrets than if it were run with privileged: false.**
- B. A container run with privileged: true on a node can access all Secrets used on that node.
- C. A container run with privileged: true within a Namespace can access all Secrets used within that Namespace.
- D. A container run with privileged: true within a cluster can access all Secrets used within that cluster.

Answer: A

Explanation:

- * Setting privileged: true grants a container elevated access to the host node, including access to host devices, kernel capabilities, and the ability to modify the host.
- * However, Secrets in Kubernetes are not automatically exposed to privileged containers. Secrets are mounted into Pods only if explicitly referenced.
- * Thus, being privileged does not grant additional access to Kubernetes Secrets compared to a non-privileged Pod.
- * The risk lies in node compromise: if a privileged container can take over the node, it could then indirectly gain access to Secrets (e.g., by reading kubelet credentials).

References:

Kubernetes Documentation - Security Context

CNCF Security Whitepaper - Pod security context and privileged container risks.

NEW QUESTION # 42

What is Grafana?

- A. A cloud-native security tool for scanning and detecting vulnerabilities in Kubernetes clusters.
- B. A container orchestration platform for managing and scaling applications.
- **C. A platform for monitoring and visualizing time-series data.**
- D. A cloud-native distributed tracing system for monitoring microservices architectures.

Answer: C

Explanation:

* Grafana: An open-source analytics and visualization platform widely used with Prometheus, Loki, etc.

* Exact extract (Grafana Docs): "Grafana is the open-source analytics and monitoring solution for every database. It allows you to query, visualize, alert on, and understand your metrics no matter where they are stored."

* A is wrong: That describes Jaeger (distributed tracing).

* B is wrong: That's Kubernetes itself.

* D is wrong: That's Trivy/Aqua/Prismatyp tools.

References:

Grafana Docs: <https://grafana.com/docs/grafana/latest/>

NEW QUESTION # 43

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