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Linux Foundation KCSA Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <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 2 | <ul style="list-style-type: none">Kubernetes Threat Model: This section of the exam measures the skills of a Cloud Security Architect and involves identifying and mitigating potential threats to a Kubernetes cluster. It requires understanding common attack vectors like privilege escalation, denial of service, malicious code execution, and network-based attacks, as well as strategies to protect sensitive data and prevent an attacker from gaining persistence within the environment. |

| | |
|---------|---|
| Topic 3 | <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. |
|---------|---|

Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q11-Q16):

NEW QUESTION # 11

An attacker has successfully overwhelmed the Kubernetes API server in a cluster with a single control plane node by flooding it with requests.

How would implementing a high-availability mode with multiple control plane nodes mitigate this attack?

- A. By implementing rate limiting and throttling mechanisms on the API server to restrict the number of requests allowed.
- B. By increasing the resources allocated to the API server, allowing it to handle a higher volume of requests.
- C. By implementing network segmentation to isolate the API server from the rest of the cluster, preventing the attack from spreading.
- **D. By distributing the workload across multiple API servers, reducing the load on each server.**

Answer: D

Explanation:

- * In high-availability clusters, multiple API server instances run behind a load balancer.
- * This distributes client requests across multiple API servers, preventing a single API server from being overwhelmed.
- * Exact extract (Kubernetes Docs - High Availability Clusters):
- * "A highly available control plane runs multiple instances of kube-apiserver, typically fronted by a load balancer, so that if one instance fails or is overloaded, others continue serving requests."
- * Other options clarified:
- * A: Network segmentation does not directly mitigate API server DoS.
- * C: Adding resources helps, but doesn't solve single-point-of-failure.
- * D: Rate limiting is a valid mitigation but not provided by HA alone.

References:

Kubernetes Docs - Building High-Availability Clusters: <https://kubernetes.io/docs/setup/production-environment/tools/kubeadm/high-availability/>

NEW QUESTION # 12

In a Kubernetes environment, what kind of Admission Controller can modify resource manifests when applied to the Kubernetes API to fix misconfigurations automatically?

- A. PodSecurityPolicy
- B. ValidatingAdmissionController
- C. ResourceQuota
- **D. MutatingAdmissionController**

Answer: D

Explanation:

- * Kubernetes Admission Controllers can either validate or mutate incoming requests.
- * **MutatingAdmissionWebhook** (Mutating Admission Controller):
- * Can modify or mutate resource manifests before they are persisted in etcd.
- * Used for automatic injection of sidecars (e.g., Istio Envoy proxy), setting default values, or fixing misconfigurations.
- * **ValidatingAdmissionWebhook** (Validating Admission Controller): only allows/denies but does not change requests.
- * **PodSecurityPolicy**: deprecated; cannot mutate requests.
- * **ResourceQuota**: enforces resource usage, but does not mutate manifests.

Exact Extract:

* "Mutating admission webhooks are invoked first, and can modify objects to enforce defaults.

Validating admission webhooks are invoked second, and can reject requests to enforce invariants.

"

References:

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

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

NEW QUESTION # 13

You want to minimize security issues in running Kubernetes Pods. Which of the following actions can help achieve this goal?

- A. Deploying Pods with randomly generated names to obfuscate their identities.
- B. Running Pods with elevated privileges to maximize their capabilities.
- **C. Implement Pod Security standards in the Pod's YAML configuration.**
- D. Sharing sensitive data among Pods in the same cluster to improve collaboration.

Answer: C

Explanation:

* Pod Security Standards (PSS):

* Kubernetes provides Pod Security Admission (PSA) to enforce security controls based on policies.

* Official extract: "Pod Security Standards define different isolation levels for Pods. The standards focus on restricting what Pods can do and what they can access."

* The three standard profiles are:

* Privileged: unrestricted (not recommended).

* Baseline: minimal restrictions.

* Restricted: highly restricted, enforcing least privilege.

* Why option C is correct:

* Applying Pod Security Standards in YAML ensures Pods adhere to best practices like:

* No root user.

* Restricted host access.

* No privilege escalation.

* Seccomp/AppArmor profiles.

* This directly minimizes security risks.

* Why others are wrong:

* A: Sharing sensitive data increases risk of exposure.

* B: Running with elevated privileges contradicts least privilege principle.

* D: Random Pod names do not contribute to security.

References:

Kubernetes Docs - Pod Security Standards: <https://kubernetes.io/docs/concepts/security/pod-security-standards/>

Kubernetes Docs - Pod Security Admission: <https://kubernetes.io/docs/concepts/security/pod-security-admission/>

NEW QUESTION # 14

Which security knowledge-base focuses specifically on offensive tools, techniques, and procedures?

- A. OWASP Top 10
- B. CIS Controls
- C. NIST Cybersecurity Framework
- **D. MITRE ATT&CK**

Answer: D

Explanation:

* MITRE ATT&CK is a globally recognized knowledge base of adversary tactics, techniques, and procedures (TTPs). It is focused on describing offensive behaviors attackers use.

* Incorrect options:

* (B) OWASP Top 10 highlights common application vulnerabilities, not attacker techniques.

* (C) CIS Controls are defensive best practices, not offensive tools.

* (D) NIST Cybersecurity Framework provides a risk-based defensive framework, not adversary TTPs.

References:

NEW QUESTION # 15

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

- A. The Scheduler is responsible for managing the deployment and scaling of applications in the Kubernetes cluster.
- B. The Scheduler is responsible for ensuring the security of the Kubernetes cluster and its components.
- C. The Scheduler is responsible for monitoring and managing the health of the Kubernetes cluster.
- D. The Scheduler is responsible for assigning Pods to nodes based on resource availability and other constraints.

Answer: D

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 # 16

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