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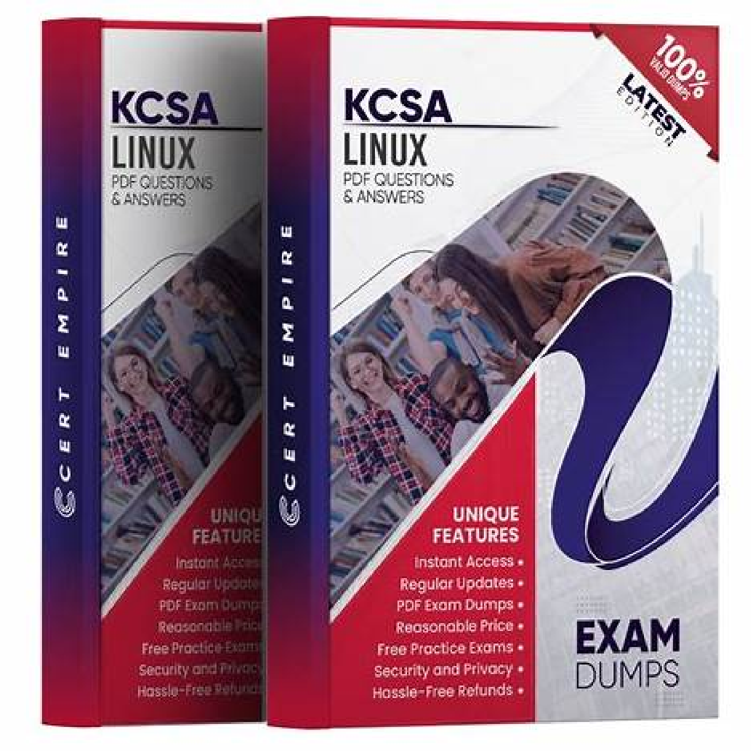

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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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	• 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.

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

NEW QUESTION # 38
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 within a Namespace can access all Secrets used within that Namespace.
- C. A container run with privileged: true within a cluster can access all Secrets used within that cluster.
- D. A container run with privileged: true on a node can access all Secrets used on that node.

Answer: A

Explanation:
* Setting privileged: true grants a containerelevated 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 exposedto privileged containers. Secrets are mounted into Pods only if explicitly referenced.
* Thus, being privilegeddoes not grant additional access to Kubernetes Secretscompared 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 # 39
Which security knowledge-base focuses specifically onoffensive tools, techniques, and procedures?

- A. OWASP Top 10

- B. CIS Controls
- C. NIST Cybersecurity Framework
- D. MITRE ATT&CK

Answer: D

Explanation:
* MITRE ATT&CKis a globally recognizedknowledge base of adversary tactics, techniques, and procedures (TTPs). It is focused on describingoffensive behaviorsattackers use.
* Incorrect options:
* (B)OWASP Top 10highlights common application vulnerabilities, not attacker techniques.
* (C)CIS Controlsare defensive best practices, not offensive tools.
* (D)NIST Cybersecurity Frameworkprovides a risk-based defensive framework, not adversary TTPs.
References:
MITRE ATT&CK Framework
CNCF Security Whitepaper - Threat intelligence section: references MITRE ATT&CK for describing attacker behavior.

NEW QUESTION # 40
What is Grafana?

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

Answer: A

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 describesJaeger(distributed tracing).
* B is wrong:That'sKubernetesitself.
* D is wrong:That'sTrivy/Aqua/Prismatype tools.
References:
Grafana Docs: https://grafana.com/docs/grafana/latest/

NEW QUESTION # 41
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/APIServer 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 canenable encryption at restto protect Secrets stored in etcd."

* This base64 behavior applies toSecrets, not to ConfigMap data. Thus optionDis incorrect for ConfigMaps.
* About RBAC (to clarify distractor A):Kubernetesdoessupport fine-grained RBAC forboth ConfigMaps and Secrets; the issue isn't lack of RBAC but that ConfigMaps arenotdesigned for confidential material.
* About compatibility (to clarify distractor C):Using ConfigMaps for secrets doesn't make apps "incompatible"; it's simplyinsecureand 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 fornon-confidentialdata, while Secrets (with encryption at rest enabled) are forconfidential data, and that the 4C's map todefense in depth.

NEW QUESTION # 42
Which label should be added to the Namespace to block any privileged Pods from being created in that Namespace?

- A. privileged: true
- B. privileged: false
- C. pod.security.kubernetes.io/privileged: false
- D. pod-security.kubernetes.io/enforce: baseline

Answer: D

Explanation:
* KubernetesPod Security Admission (PSA)enforcesPod Security Standardsby applying labels on Namespaces.
* Exact extract (Kubernetes Docs - Pod Security Admission):
* "You can label a namespace with pod-security.kubernetes.io/enforce: baseline to enforce the Baseline policy."
* Thebaselineprofile explicitly disallowsprivileged podsand other unsafe features.
* Why others are wrong:
* A & D: These labels do not exist in Kubernetes.
* B: Setting privileged: true would allow privileged pods, not block them.
References:
Kubernetes Docs - Pod Security Admission: https://kubernetes.io/docs/concepts/security/pod-security- admission/ Kubernetes Docs - Pod Security Standards: https://kubernetes.io/docs/concepts/security/pod-security- standards/

NEW QUESTION # 43
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