Linux Foundation KCSA Top Questions, Exam KCSA Blueprint

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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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.

>> Linux Foundation KCSA Top Questions <<

Exam KCSA Blueprint - Valid KCSA Mock Exam

The ITExamSimulator is one of the top-rated and renowned platforms that have been offering real and valid Linux Foundation Kubernetes and Cloud Native Security Associate (KCSA) practice test questions for many years. During this long time period countless Linux Foundation Kubernetes and Cloud Native Security Associate (KCSA) exam candidates have passed their dream Linux Foundation Kubernetes and Cloud Native Security Associate (KCSA) certification exam and they are now certified Linux Foundation professionals and pursuing a rewarding career in the market.

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

NEW QUESTION # 11
A Kubernetes cluster tenant can launch privileged Pods in contravention of therestricted Pod Security Standardmandated for cluster tenants and enforced by the built-inPodSecurity admission controller.
The tenant has full CRUD permissions on the namespace object and the namespaced resources. How did the tenant achieve this?

- A. By deleting the PodSecurity admission controller deployment running in their namespace.
- B. By tampering with the namespace labels.
- C. The scope of the tenant role means privilege escalation is impossible.
- D. By using higher-level access credentials obtained reading secrets from another namespace.

Answer: B

Explanation:
* ThePodSecurity admission controllerenforces Pod Security Standards (Baseline, Restricted, Privileged)based on namespace labels.
* If a tenant has full CRUD on the namespace object, they canmodify the namespace labelsto remove or weaken the restriction (e.g., setting pod-security.kubernetes.io/enforce=privileged).
* This allows privileged Pods to be admitted despite the security policy.
* Incorrect options:
* (A) is false - namespace-level access allows tampering.
* (C) is invalid - PodSecurity admission is not namespace-deployed, it's a cluster-wide admission controller.
* (D) is unrelated - Secrets from other namespaces wouldn't directly bypass PodSecurity enforcement.
References:
Kubernetes Documentation - Pod Security Admission
CNCF Security Whitepaper - Admission control and namespace-level policy enforcement weaknesses.

NEW QUESTION # 12
What does thecluster-adminClusterRole enable when used in a RoleBinding?

- A. It allows read/write access to most resources in the role binding's namespace. This role does not allow write access to resource quota, to the namespace itself, and to EndpointSlices (or Endpoints).
- B. It gives full control over every resource in the cluster and in all namespaces.
- C. It gives full control over every resource in the role binding's namespace, not including the namespace object for isolation purposes.
- D. It gives full control over every resource in the role binding's namespace, including the namespace itself.

Answer: B

Explanation:
* Thecluster-adminClusterRole is asuperuser rolein Kubernetes.
* Binding it (via RoleBinding or ClusterRoleBinding) grantsunrestricted control over all resources in the cluster, across all namespaces.
* This includes management of cluster-scoped resources (nodes, CRDs, RBAC rules) and namespace- scoped resources.
* Therefore, cluster-admin is equivalent toroot-level accessin Kubernetes and must be used with extreme caution.
References:

Kubernetes Documentation - Default Roles and Role Bindings
CNCF Security Whitepaper - Identity and Access Management: cautions against assigningcluster-admin broadly due to its unrestricted nature.

NEW QUESTION # 13
Which information does a user need to verify a signed container image?

- A. The image's digital signature and the private key of the signing authority.
- B. The image's digital signature and the public key of the signing authority.
- C. The image's SHA-256 hash and the public key of the signing authority.
- D. The image's SHA-256 hash and the private key of the signing authority.

Answer: B

Explanation:
* Container image signing (e.g., withcosign, Notary v2) uses asymmetric cryptography.
* Verification process:
* Retrieve theimage's digital signature.
* Validate the signature with thepublic keyof the signer.
* Exact extract (Sigstore Cosign Docs):
* "Verification of an image requires the signature and the signer's public key. The signature proves authenticity and integrity."
* Why others are wrong:
* A & B: The private key is only used by the signer, never shared.
* C: The hash alone cannot prove authenticity without the digital signature.
References:
Sigstore Cosign Docs: https://docs.sigstore.dev/cosign/overview

NEW QUESTION # 14
Which of the following statements on static Pods is true?

- A. The kubelet only deploys static Pods when the kube-scheduler is unresponsive.
- B. The kubelet can run static Pods that span multiple nodes, provided that it has the necessary privileges from the API server.
- C. The kubelet can run a maximum of 5 static Pods on each node.
- D. The kubelet schedules static Pods local to its node without going through the kube-scheduler, making tracking and managing them difficult.

Answer: D

Explanation:
* Static Podsare managed directly by thekubeleton each node.
* They arenot scheduled by the kube-schedulerand always remain bound to the node where they are defined.
* Exact extract (Kubernetes Docs - Static Pods):
* "Static Pods are managed directly by the kubelet daemon on a specific node, without the API server. They do not go through the Kubernetes scheduler."
* Clarifications:
* A: Static Pods do not span multiple nodes.
* B: No hard limit of 5 Pods per node.
* D: They are not a fallback mechanism; kubelet always manages them regardless of scheduler state.
References:
Kubernetes Docs - Static Pods: https://kubernetes.io/docs/tasks/configure-pod-container/static-pod/

NEW QUESTION # 15
In a Kubernetes environment, what kind of Admission Controller can modify resource manifests when applied to the Kubernetes API to fix misconfigurations automatically?

- A. MutatingAdmissionController
- B. PodSecurityPolicy

- C. ResourceQuota
- D. ValidatingAdmissionController

Answer: A

Explanation:
* Kubernetes Admission Controllers can eithervalidateormutateincoming requests.
* MutatingAdmissionWebhook (Mutating Admission Controller):
* Canmodify or mutate resource manifestsbefore 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 doesnot 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 # 16
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