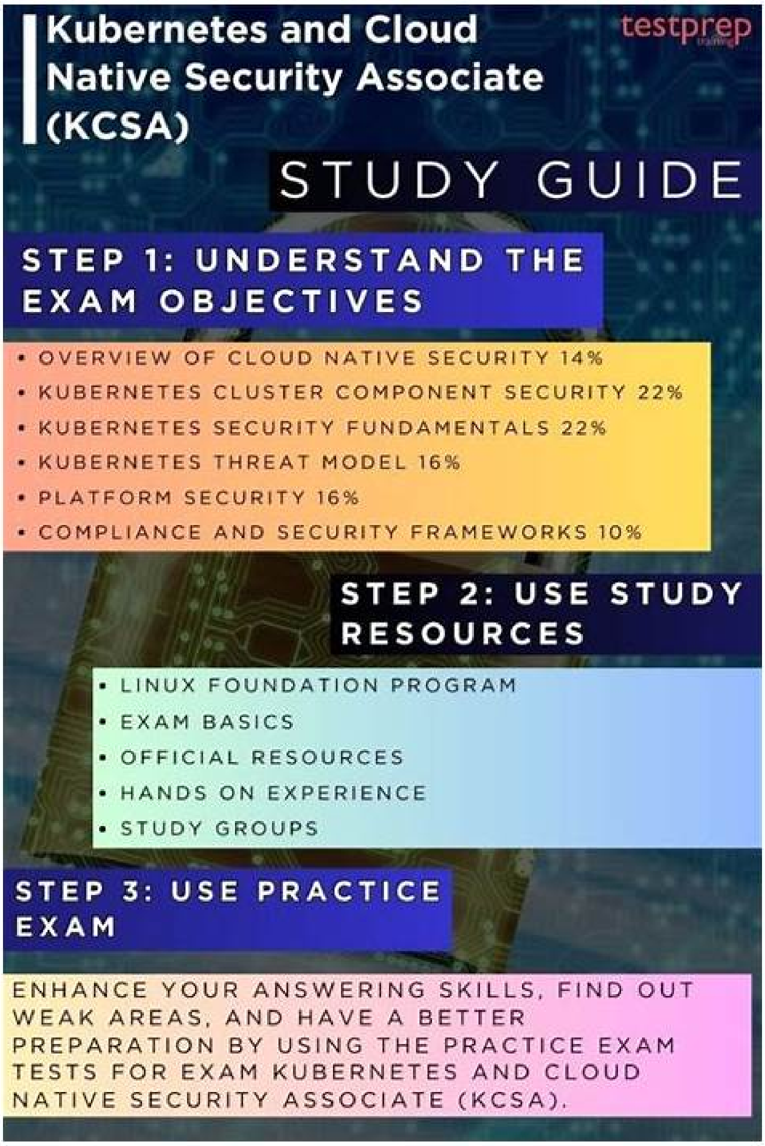
KCSA Übungsmaterialien - KCSA Prüfungsvorbereitung



EchteFrage ist eine Website, die die Erfolgsquote von Linux Foundation KCSA Zertifizierungsprüfung erhöhen kann. Die erfahrungsreichen IT-Experten entwickeln ständig eine Vielzahl von Programmen, um zu garantierern, dass Sie die Linux Foundation KCSA Zertifizierungsprüfung 100% erfolgreich bestehen können. Die Trainingsinsmaterialien von EchteFrage sind sehr effektiv. Viele IT-Leute, die die Linux Foundation KCSA Prüfung bestanden haben, haben die Prüfungsfragen und Antworten von EchteFrage benutzt. Mit Hilfe des EchteFrage haben viele auch die Linux Foundation KCSA Zertifizierungsprüfung bestanden. Wenn Sie EchteFrage wählen, kommt der Erfolg auf Sie zu.

Linux Foundation KCSA Prüfungsplan:

Thema	Einzelheiten
Thema 1	• 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.

Thema 2	- 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.
Thema 3	- 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.
Thema 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.
Thema 5	- 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.

100% Garantie KCSA Prüfungserfolg

Das Zertifikat von Linux Foundation KCSA kann Ihnen sehr viel helfen. Mit dem Zertifikat können Sie befördert werden. Und Ihr Lebensniveau wird sich sicher verbessern. Das Linux Foundation KCSA Zertifikat bedeutet für Sie einen großen Reichtum. Die Linux Foundation KCSA (Linux Foundation Kubernetes and Cloud Native Security Associate) Zertifizierungsprüfung ist ein Test für die IT-Fachleute. Die Prüfungsmaterialien zur Linux Foundation KCSA Zertifizierungsprüfung sind die besten und umfassendsten. Nun stellt EchteFrage Ihnen die besten und optimalen Prüfungsmaterialien zur KCSA Zertifizierungsprüfung zur Verfügung, die Prüfungsfragen und Antworten enthalten.

Linux Foundation Kubernetes and Cloud Native Security Associate KCSA Prüfungsfragen mit Lösungen (Q61-Q66):

61. Frage
What is Grafana?

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

Antwort: C

Begründung:
* 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/

62. Frage
A container image istrojanizedby an attacker by compromising the build server. Based on the STRIDE threat modeling framework, which threat category best defines this threat?

- A. Repudiation
- B. Denial of Service
- C. Spoofing
- D. Tampering

Antwort: D

Begründung:
* In STRIDE,Tamperingis the threat category forunauthorized modification of data or code/artifacts. A trojanized container image is, by definition, an attacker'smodificationof the build output (the image) after compromising the CI/build system-i.e., tampering with the artifact in the software supply chain.
* Why not the others?
* Spoofingis about identity/authentication (e.g., pretending to be someone/something).
* Repudiationis about denying having performed an action without sufficient audit evidence.
* Denial of Servicetargets availability (exhausting resources or making a service unavailable).The scenario explicitly focuses on analtered imageresulting from a compromised build server-this squarely maps toTampering.
Authoritative references (for verification and deeper reading):
* Kubernetes (official docs)- Supply Chain Security (discusses risks such as compromised CI/CD pipelines leading to modified/poisoned images and emphasizes verifying image integrity/signatures).
* Kubernetes Docs#Security#Supply chain securityandSecuring a cluster(sections on image provenance, signing, and verifying artifacts).
* CNCF TAG Security - Cloud Native Security Whitepaper (v2)- Threat modeling in cloud-native and software supply chain risks; describes attackers modifying build outputs (images/artifacts) via CI
/CD compromise as a form oftamperingand prescribes controls (signing, provenance, policy).
* CNCF TAG Security - Software Supply Chain Security Best Practices- Explicitly covers CI/CD compromise leading tomaliciously modified imagesand recommends SLSA, provenance attestation, and signature verification (policy enforcement via admission controls).
* Microsoft STRIDE (canonical reference)- DefinesTamperingasmodifying data or code, which directly fits a trojanized image produced by a compromised build system.

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

Antwort: B

Begründung:
* 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/

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

Antwort: C

Begründung:
* 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.

65. Frage
A cluster is failing to pull more recent versions of images from k8s.gcr.io. Why may this be?

- A. The authentication credentials for accessing k8s.gcr.io are incorrectly scoped.
- B. The container image registry k8s.gcr.io has been deprecated.
- C. There is a bug in the container runtime or the image pull process.
- D. There is a network connectivity issue between the cluster and k8s.gcr.io.

Antwort: B

Begründung:
* k8s.gcr.iowas the historic Kubernetes image registry.
* It has beendeprecatedand replaced withregistry.k8s.io.
* Exact extract (Kubernetes Blog):
* "The k8s.gcr.io image registry will be frozen from April 3, 2023 and fully deprecated. All Kubernetes project images are now served from registry.k8s.io."
* Pulling newer versions from k8s.gcr.io fails because the registry no longer receives updates.
References:
Kubernetes Blog - Image Registry Update: https://kubernetes.io/blog/2023/02/06/k8s-gcr-io-freeze- announcement/

66. Frage
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