KCSA Prep Guide - New KCSA Test Registration

The Linux Foundation KCSA certification exam is one of the hottest and career-oriented Linux Foundation Kubernetes and Cloud Native Security Associate (KCSA) exams. With the Linux Foundation Kubernetes and Cloud Native Security Associate (KCSA) exam you can validate your skills and upgrade your knowledge level. By doing this you can learn new in-demand skills and gain multiple career opportunities. To do this you just need to enroll in the Linux Foundation KCSA Certification Exam and put all your efforts to pass this important Linux Foundation KCSA Exam Questions. However, you should keep in mind that to get success in the Linux Foundation Kubernetes and Cloud Native Security Associate (KCSA) exam is not an easy task.

Windows, Mac, iOS, Android, and Linux support this KCSA practice exam. The desktop Linux Foundation Kubernetes and Cloud Native Security Associate (KCSA) practice test software is similar to the web-based KCSA format as far as its features are concerned. But it works offline only on the Windows operating system. The offline KCSA Practice Exam can be taken easily just by just installing the software on your Windows laptop or computer. All three Linux Foundation Kubernetes and Cloud Native Security Associate (KCSA) formats of Itbraindumps are according to the latest content of the Linux Foundation KCSA examination.

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New Linux Foundation KCSA Test Registration & KCSA Test Centres

Passing the Linux Foundation Kubernetes and Cloud Native Security Associate (KCSA) exam can be a challenging task, especially if you have a tight schedule. You need comprehensive exam questions to prepare well for the exam. In this article, we will introduce you to Itbraindumps Linux Foundation KCSA Exam Questions that offer relevant and reliable exam materials for your Linux Foundation Kubernetes and Cloud Native Security Associate (KCSA) exam preparation.

Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q39-Q44):

NEW QUESTION # 39
How do Kubernetes namespaces impact the application of policies when using Pod Security Admission?

- A. Each namespace can have only one active policy.
- B. The default namespace enforces the strictest security policies by default.
- C. Different policies can be applied to specific namespaces.
- D. Namespaces are ignored; Pod Security Admission policies apply cluster-wide only.

Answer: C

Explanation:
* Pod Security Admission (PSA)enforces policies by applyinglabels on namespaces, not globally across the cluster.
* Exact extract (Kubernetes Docs - Pod Security Admission):
* "You can apply Pod Security Standards to namespaces by adding labels such as pod- security.kubernetes.io/enforce. Different namespaces can enforce different policies."
* Clarifications:
* A: Incorrect, namespaces are the unit of enforcement.
* C: Misleading - a namespace can have multiple enforcement modes (enforce, audit, warn).
* D: Default namespace doesnotenforce strict policies unless labeled.
References:
Kubernetes Docs - Pod Security Admission: https://kubernetes.io/docs/concepts/security/pod-security- admission/

NEW QUESTION # 40
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. Tampering
- C. Denial of Service
- D. Spoofing

Answer: B

Explanation:
* 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.

NEW QUESTION # 41
Which of the following statements best describe container image signing and verification in the cloud environment?

- A. Container image signatures and their verification ensure their authenticity and integrity against tampering.
- B. Container image signatures are mandatory in cloud environments, as cloud providers would deny the execution of unsigned container images.

- C. Container image signatures affect the performance of containerized applications, as they increase the size of images with additional metadata.
- D. Container image signatures are concerned with defining developer ownership of applications within multi-tenant environments.

Answer: A

Explanation:
* Image signing (withNotary, cosign, or similar tools) ensures that images are from a trusted source and have not been modified.
* Exact extract (Sigstore cosign docs):"Cosign allows you to sign and verify container images to ensure authenticity and integrity."
* Why others are wrong:
* B:Ownership can be inferred but it's aboutauthenticity & integritynot tenancy.
* C:Not mandatory; enforcement requiresadmission controllers.
* D:Metadata size is negligible and has no runtime performance impact.
References:
Sigstore Project: https://docs.sigstore.dev/cosign/overview
CNCF Security Whitepaper

NEW QUESTION # 42
What information is stored in etcd?

- A. Etcd manages the configuration data, state data, and metadata for Kubernetes.
- B. Sensitive user data such as usernames and passwords.
- C. Pod data contained in Persistent Volume Claims (e.g. hostPath).
- D. Application logs and monitoring data for auditing and troubleshooting purposes.

Answer: A

Explanation:
* etcdis Kubernetes'key-value storeforcluster state.
* Stores: ConfigMaps, Secrets, Pod definitions, Deployments, RBAC policies, and metadata.
* Exact extract (Kubernetes Docs - etcd):
* "etcd is a consistent and highly-available key-value store used as Kubernetes' backing store for all cluster data."
* Clarifications:
* B: Logs/metrics are handled by logging/monitoring solutions, not etcd.
* C: Secrets may be stored here but encoded in base64, not specifically "usernames/passwords" as primary use.
* D: Persistent Volumes are external storage, not stored in etcd.
References:
Kubernetes Docs - etcd: https://kubernetes.io/docs/concepts/overview/components/#etcd

NEW QUESTION # 43
What is the purpose of the Supplier Assessments and Reviews control in the NIST 800-53 Rev. 5 set of controls for Supply Chain Risk Management?

- A. To establish contractual agreements with suppliers.
- B. To conduct regular audits of suppliers' financial performance.
- C. To identify potential suppliers for the organization.
- D. To evaluate and monitor existing suppliers for adherence to security requirements.

Answer: D

Explanation:
* In NIST SP 800-53 Rev. 5,SR-6: Supplier Assessments and Reviewsrequires evaluating and monitoring suppliers' security and risk practices.
* Exact extract (NIST SP 800-53 Rev. 5, SR-6):
* "The organization assesses and monitors suppliers to ensure they are meeting the security requirements specified in contracts and agreements."
* This is aboutongoing monitoringof supplier adherence, not financial audits, not contract creation, and not supplier discovery.
References:

NIST SP 800-53 Rev. 5, Control SR-6 (Supplier Assessments and Reviews): https://csrc.nist.gov/publications/detail/sp/800-53/rev-5/final

NEW QUESTION # 44

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