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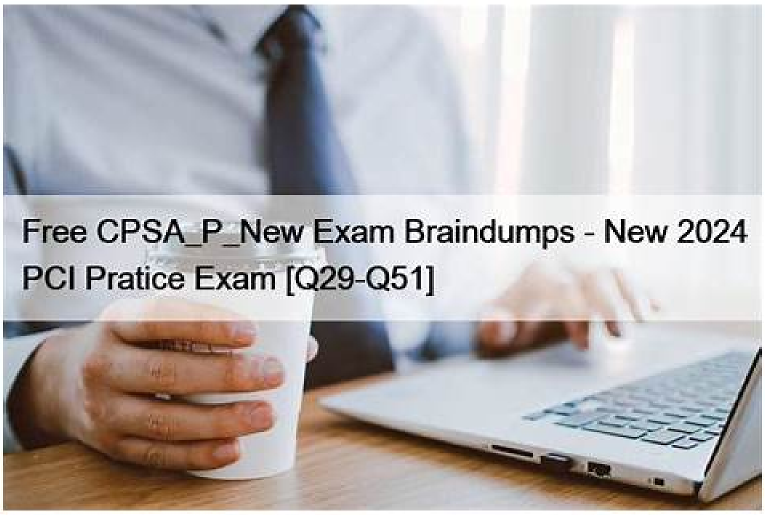

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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.

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	• 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 4	• 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.

Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q36-Q41):

NEW QUESTION # 36
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 affect the performance of containerized applications, as they increase the size of images with additional metadata.
- C. Container image signatures are concerned with defining developer ownership of applications within multi-tenant environments.
- D. Container image signatures are mandatory in cloud environments, as cloud providers would deny the execution of unsigned container images.

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 # 37
Is it possible to restrict permissions so that a controller can only change the image of a deployment (without changing anything else about it, e.g., environment variables, commands, replicas, secrets)?

- A. Not with RBAC, but it is possible with an admission webhook.
- B. No, because granting access to the spec.containers.image field always grants access to the rest of the spec object.
- C. Yes, by granting permission to the /image subresource.
- D. Yes, with a 'managed fields' annotation.

Answer: A

Explanation:
* RBAC in Kubernetesis coarse-grained: it controlsverbs(get, update, patch, delete) onresources(e.g., deployments), butnot

individual fieldswithin a resource.
* There isno /image subresource for deployments(there is one for pods but only for ephemeral containers).
* Therefore,RBAC cannot restrict changes only to the image field.
* Admission Webhooks(mutating/validating)canenforce fine-grained policies (e.g., deny updates that change anything other than spec.containers[*].image).
* Exact extract (Kubernetes Docs - Admission Webhooks):
* "Admission webhooks can be used to enforce custom policies on objects being admitted." References:
Kubernetes Docs - RBAC: https://kubernetes.io/docs/reference/access-authn-authz/rbac/ Kubernetes Docs - Admission Webhooks: https://kubernetes.io/docs/reference/access-authn-authz
/extensible-admission-controllers/

NEW QUESTION # 38
You want to minimize security issues in running Kubernetes Pods. Which of the following actions can help achieve this goal?

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

Answer: B

Explanation:
* Pod Security Standards (PSS):
* Kubernetes providesPod 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 tobest practiceslike:
* 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 donotcontribute 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 # 39
Which standard approach to security is augmented by the 4C's of Cloud Native security?

- A. Secure-by-Design
- B. Defense-in-Depth
- C. Least Privilege
- D. Zero Trust

Answer: B

Explanation:
* The 4C's model (Cloud, Cluster, Container, Code) is presented in the official Kubernetes documentation as alayeredmodel that explicitly maps todefense-in-depth.
* Exact extracts from Kubernetes docs(security overview):

* "The 4C's of Cloud Native Security are Cloud, Clusters, Containers, and Code."
* "You can think of the 4C's asa layered approach to security; applying security measures at each layer reduces risk."
* "This layered approach is commonly known asdefense in depth."

References:
Kubernetes Docs - Security overview #The 4C's of Cloud Native Security: https://kubernetes.io/docs /concepts/security/overview/#the-4cs-of-cloud-native-security

NEW QUESTION # 40
Why does the defaultbase64 encodingthat Kubernetes applies to the contents of Secret resources provide inadequate protection?

- A. Base64 encoding does not encrypt the contents of the Secret, only obfuscates it.
- B. Base64 encoding is vulnerable to brute-force attacks.
- C. Base64 encoding relies on a shared key which can be easily compromised.
- D. Base64 encoding is not supported by all Secret Stores.

Answer: A

Explanation:
* Kubernetes stores Secret data asbase64-encoded stringsin etcd by default.
* Base64 is not encryption- it is a simple encoding scheme that merelyobfuscatesdata for transport and storage. Anyone with read access to etcd or the Secret manifest can easily decode the value back to plaintext.
* For actual protection, Kubernetes supportsencryption at rest(via encryption providers) and external Secret management (Vault, KMS, etc.).

References:
Kubernetes Documentation - Secrets
CNCF Security Whitepaper - Data protection section: highlights that base64 encoding does not protect data and encryption at rest is recommended.

NEW QUESTION # 41
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