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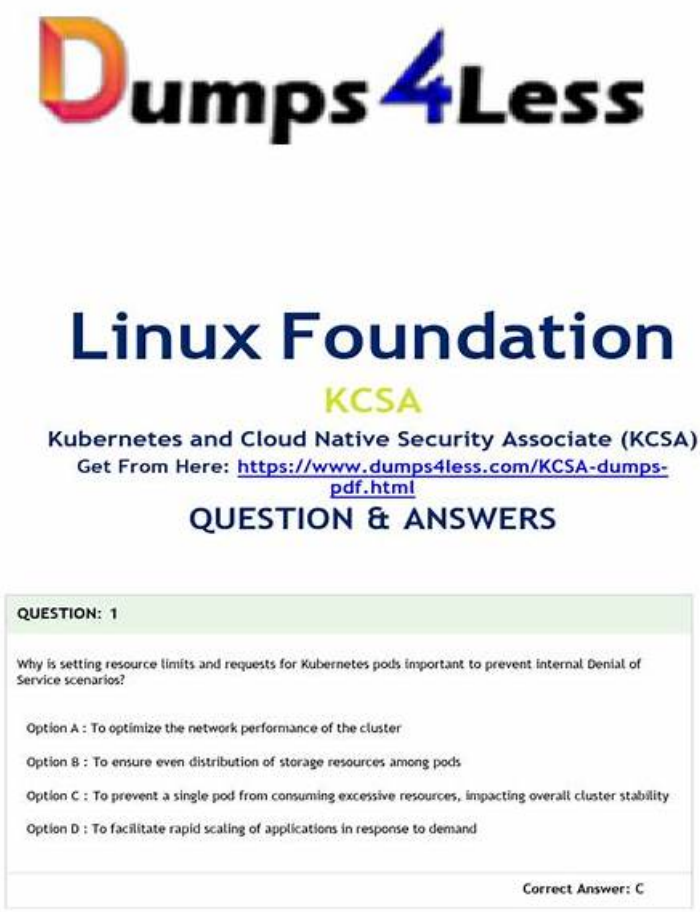

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Quiz 2025 Linux Foundation Newest KCSA: Linux Foundation Kubernetes and Cloud Native Security Associate Valid Test Practice

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

NEW QUESTION # 11
What was the name of the precursor to Pod Security Standards?

- A. Container Runtime Security
- B. Kubernetes Security Context
- C. Container Security Standards
- D. Pod Security Policy

Answer: D

Explanation:
* Kubernetes originally had a feature calledPodSecurityPolicy (PSP), which provided controls to restrict pod behavior.
* Official docs:
* "PodSecurityPolicy was deprecated in Kubernetes v1.21 and removed in v1.25."
* "Pod Security Standards (PSS) replace PodSecurityPolicy (PSP) with a simpler, policy- driven approach."
* PSP was often complex and hard to manage, so it was replaced by Pod Security Admission (PSA) which enforcesPod Security Standards.
References:
Kubernetes Docs - PodSecurityPolicy (deprecated): https://kubernetes.io/docs/concepts/security/pod- security-policy/ Kubernetes Blog - PodSecurityPolicy Deprecation: https://kubernetes.io/blog/2021/04/06/podsecuritypolicy- deprecation-past-present-and-future/

NEW QUESTION # 12
An attacker has successfully overwhelmed the Kubernetes API server in a cluster with a single control plane node by flooding it with requests.
How would implementing a high-availability mode with multiple control plane nodes mitigate this attack?

- A. By increasing the resources allocated to the API server, allowing it to handle a higher volume of requests.
- B. By implementing network segmentation to isolate the API server from the rest of the cluster, preventing the attack from spreading.
- C. By distributing the workload across multiple API servers, reducing the load on each server.
- D. By implementing rate limiting and throttling mechanisms on the API server to restrict the number of requests allowed.

Answer: C

Explanation:
* Inhigh-availability clusters, multiple API server instances run behind a load balancer.
* Thisdistributes client requests across multiple API servers, preventing a single API server from being overwhelmed.
* Exact extract (Kubernetes Docs - High Availability Clusters):
* "A highly available control plane runs multiple instances of kube-apiserver, typically fronted by a load balancer, so that if one instance fails or is overloaded, others continue serving requests."
* Other options clarified:
* A: Network segmentation does not directly mitigate API server DoS.
* C: Adding resources helps, but doesn't solve single-point-of-failure.
* D: Rate limiting is a valid mitigation but not provided by HA alone.
References:
Kubernetes Docs - Building High-Availability Clusters: https://kubernetes.io/docs/setup/production-environment/tools/kubeadm/high-availability/

NEW QUESTION # 13
What is the reasoning behind considering the Cloud as the trusted computing base of a Kubernetes cluster?

- A. A Kubernetes cluster can only be trusted if the underlying Cloud provider is certified against international standards.
- B. The Cloud enforces security controls at the Kubernetes cluster level, so application developers can focus on applications only.
- C. A Kubernetes cluster can only be as secure as the security posture of its Cloud hosting.
- D. A vulnerability in the Cloud layer has a negligible impact on containers due to Linux isolation mechanisms.

Answer: C

Explanation:
* The4C's of Cloud Native Security(Cloud, Cluster, Container, Code) model starts withCloudas the base layer.
* If the Cloud (infrastructure layer) is compromised, every higher layer (Cluster, Container, Code) inherits that compromise.
* Exact extract (Kubernetes Security Overview):
* "The 4C's of Cloud Native security are Cloud, Clusters, Containers, and Code. You can think of the 4C's as a layered approach. A Kubernetes cluster can only be as secure as the cloud infrastructure it is deployed on."
* This means the cloud is part of thetrusted computing baseof a Kubernetes cluster.
References:
Kubernetes Docs - Security Overview (4C's): https://kubernetes.io/docs/concepts/security/overview/#the-4cs-of-cloud-native-security

NEW QUESTION # 14
What information is stored in etcd?

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

Answer: C

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 # 15
You want to minimize security issues in running Kubernetes Pods. Which of the following actions can help achieve this goal?

- A. Deploying Pods with randomly generated names to obfuscate their identities.
- B. Implement Pod Security standards in the Pod's YAML configuration.
- C. Running Pods with elevated privileges to maximize their capabilities.
- 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 # 16
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