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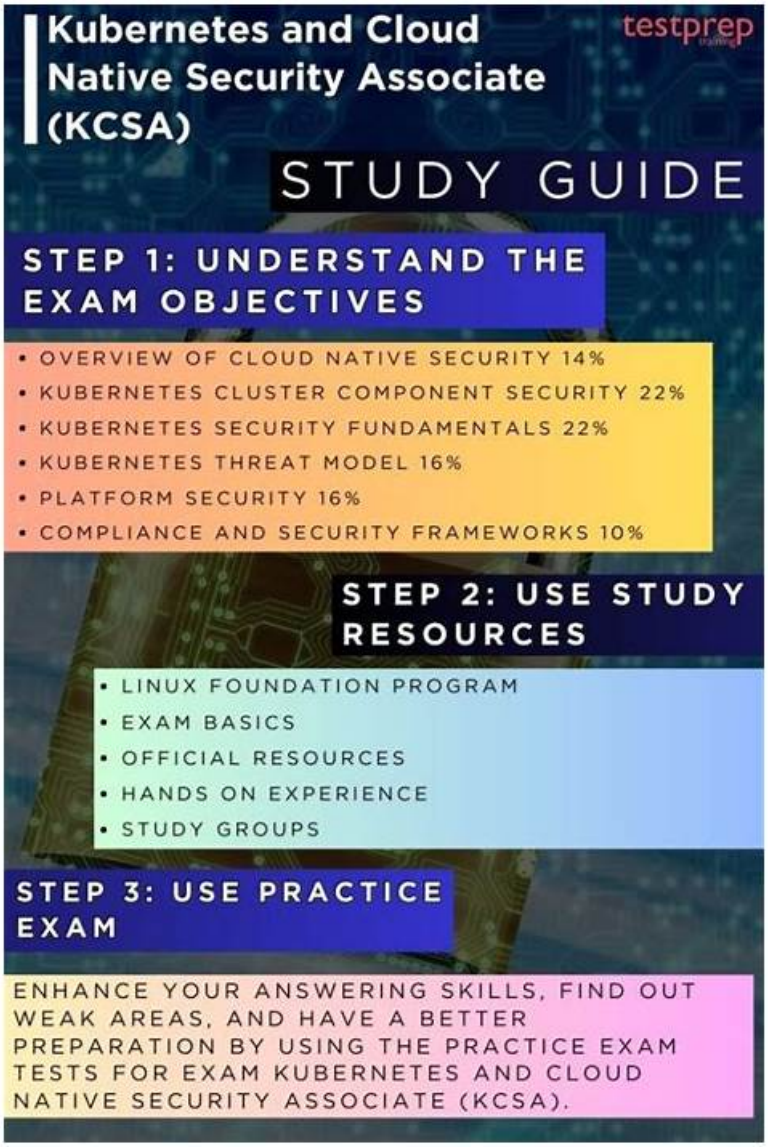

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Updated KCSA Dump File & Leader in Qualification Exams & Newest KCSA: Linux Foundation Kubernetes and Cloud Native Security Associate

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q54-Q59):

NEW QUESTION # 54
You are responsible for securing thekubeletcomponent in a Kubernetes cluster.
Which of the following statements about kubelet security is correct?

- A. Kubelet runs as a privileged container by default.
- B. Kubelet supports TLS authentication and encryption for secure communication with the API server.
- C. Kubelet requires root access to interact with the host system.
- D. Kubelet does not have any built-in security features.

Answer: B

Explanation:
* Thekubeletis the primary agent that runs on each node in a Kubernetes cluster and communicates with the control plane.
* Kubeletsupports TLS (Transport Layer Security)for both authentication and encryption when interacting with the API server. This is a core security feature that ensures secure node-to-control-plane communication.
* Incorrect options:
* (A) Kubelet does not run as a privileged container by default; it runs as a system process (typically systemd-managed) on the host.
* (B) Kubelet does include built-in security features such asTLS authentication, authorization modes, and read-only vs secured ports.
* (D) While kubelet interacts with the host system (e.g., cgroups, container runtimes), it does not inherently require root access for communication security; RBAC and TLS handle authentication.
References:
Kubernetes Documentation - Kubelet authentication/authorization
CNCF Security Whitepaper - Cluster Component Security (discusses TLS and mutual authentication between kubelet and API server).

NEW QUESTION # 55
On a client machine, what directory (by default) contains sensitive credential information?

- A. $HOME/.config/kubernetes/
- B. /etc/kubernetes/
- C. $HOME/.kube
- D. /opt/kubernetes/secrets/

Answer: C

Explanation:
* Thekubectlclient uses configuration from$HOME/.kube/configby default.
* This file contains: cluster API server endpoint, user certificates, tokens, or kubeconfigs #sensitive credentials.
* Exact extract (Kubernetes Docs - Configure Access to Clusters):
* "By default, kubectl looks for a file named config in the $HOME/.kube directory. This file contains configuration information including user credentials."
* Other options clarified:
* A: /etc/kubernetes/ exists on nodes (control plane) not client machines.
* C: /opt/kubernetes/secrets/ is not a standard path.
* D: $HOME/.config/kubernetes/ is not where kubeconfig is stored by default.
References:
Kubernetes Docs - Configure Access to Clusters: https://kubernetes.io/docs/concepts/configuration/organize- cluster-access-kubeconfig/

NEW QUESTION # 56
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 # 57
Which of the following is a control for Supply Chain Risk Management according to NIST 800-53 Rev. 5?

- A. Incident Response
- B. System and Communications Protection
- C. Access Control
- D. Supply Chain Risk Management Plan

Answer: D

Explanation:
* NIST SP 800-53 Rev. 5 introduces a dedicated family of controls calledSupply Chain Risk Management (SR).
* Within SR,SR-2 (Supply Chain Risk Management Plan)is a specific control.
* Exact extract from NIST 800-53 Rev. 5:
* "The organization develops and implements a supply chain risk management plan for the system, system component, or system service."
* While Access Control, System and Communications Protection, and Incident Response are control families, the correctsupply chain-specific controlis theSupply Chain Risk Management Plan (SR-2).
References:
NIST SP 800-53 Rev. 5 -Security and Privacy Controls for Information Systems and Organizations: https://csrc.nist.gov/publications/detail/sp/800-53/rev-5/final

NEW QUESTION # 58
What is the reasoning behind considering the Cloud as the trusted computing base of a Kubernetes cluster?

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

Answer: D

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 # 59
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