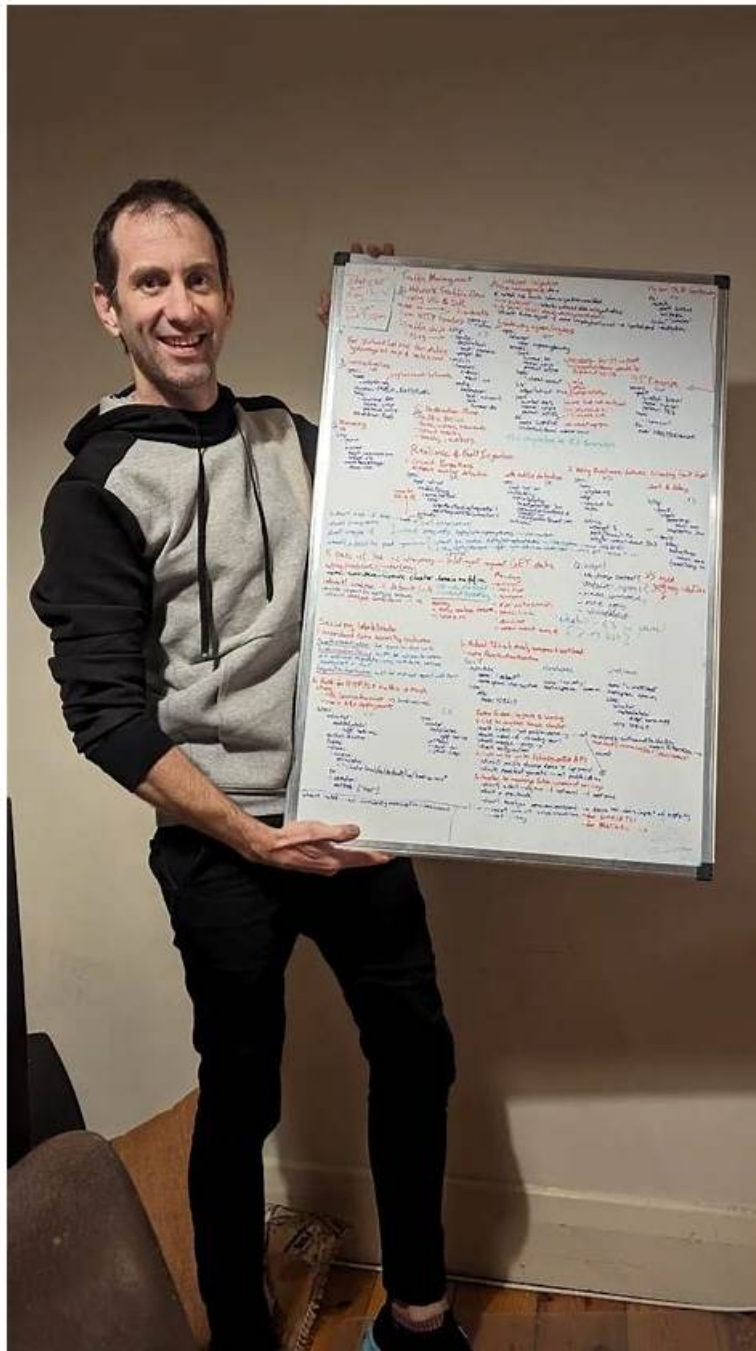# Pass-Sure KCSA Valid Exam Vce offer you accurate Latest Exam Review | Linux Foundation Linux Foundation Kubernetes and Cloud Native Security Associate

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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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.
Topic 3	• 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.
Topic 4	• 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 5	• 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.

Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q43-Q48):

NEW QUESTION # 43

As a Kubernetes and Cloud Native Security Associate, a user can set up audit logging in a cluster. What is the risk of logging every event at the fullRequestResponse level?

- A. Improved security and easier incident investigation.
- B. Increased storage requirements and potential impact on performance.
- C. No risk, as it provides the most comprehensive audit trail.
- D. Reduced storage requirements and faster performance.

Answer: B

Explanation:
* Audit logging records API server requests and responses for security monitoring.
* The RequestResponse level logs the full request and response bodies, which can:
* Significantly increase storage and performance overhead.
* Potentially log sensitive data (including Secrets).
* Therefore, while comprehensive, it introduces risks of performance degradation and excessive log volume.
References:
Kubernetes Documentation - Auditing
CNCF Security Whitepaper - Logging and monitoring: trade-offs between verbosity, storage, and security.

NEW QUESTION # 44
Which of the following statements best describes the role of the Scheduler in Kubernetes?

- A. The Scheduler is responsible for monitoring and managing the health of the Kubernetes cluster.
- B. The Scheduler is responsible for ensuring the security of the Kubernetes cluster and its components.
- C. The Scheduler is responsible for managing the deployment and scaling of applications in the Kubernetes cluster.
- D. The Scheduler is responsible for assigning Pods to nodes based on resource availability and other constraints.

Answer: D

Explanation:
* The Kubernetes Scheduler assigns Pods to nodes based on:
* Resource requests & availability (CPU, memory, GPU, etc.)
* Constraints (affinity, taints, tolerations, topology, policies)
* Exact extract (Kubernetes Docs - Scheduler):
* "The scheduler is a control plane process that assigns Pods to Nodes. Scheduling decisions take into account resource requirements, affinity/anti-affinity, constraints, and policies."
* Other options clarified:
* A: Monitoring cluster health is the Controller Manager's/kubelet's job.
* B: Security is enforced through RBAC, admission controllers, PSP/PSA, not the scheduler.
* C: Deployment scaling is handled by the Controller Manager (Deployment/ReplicaSet controller).
References:
Kubernetes Docs - Scheduler: https://kubernetes.io/docs/concepts/scheduling-eviction/kube-scheduler/

NEW QUESTION # 45
Why might NetworkPolicy resources have no effect in a Kubernetes cluster?

- A. NetworkPolicy resources are only enforced if the user has the right RBAC permissions.
- B. NetworkPolicy resources are only enforced if the networking plugin supports them.
- C. NetworkPolicy resources are only enforced for unprivileged Pods.
- D. NetworkPolicy resources are only enforced if the Kubernetes scheduler supports them.

Answer: B

Explanation:
* NetworkPolicies define how Pods can communicate with each other and external endpoints.
* However, Kubernetes itself does not enforce NetworkPolicy. Enforcement depends on the CNI plugin used (e.g., Calico, Cilium, Kube-Router, Weave Net).
* If a cluster is using a network plugin that does not support NetworkPolicies, then creating NetworkPolicy objects has no effect.

References:
Kubernetes Documentation - Network Policies
CNCF Security Whitepaper - Platform security section: notes that security enforcement relies on CNI capabilities.

NEW QUESTION # 46

Which other controllers are part of the kube-controller-manager inside the Kubernetes cluster?

- A. Namespace controller, ConfigMap controller, and Secret controller
- B. Job controller, CronJob controller, and DaemonSet controller
- C. Pod, Service, and Ingress controller
- D. Replication controller, Endpoints controller, Namespace controller, and ServiceAccounts controller

Answer: D

Explanation:
* kube-controller-manager runs a set of controllers that regulate the cluster's state.
* Exact extract (Kubernetes Docs):"The kube-controller-manager runs controllers that are core to Kubernetes. Examples of controllers are: Node controller, Replication controller, Endpoints controller, Namespace controller, and ServiceAccounts controller."
* Why D is correct:All listed are actual controllers within kube-controller-manager.
* Why others are wrong:
* A:Job and CronJob controllers are managed by kube-controller-manager, but DaemonSet controller is managed by the kube-scheduler/deployment logic.
* B:Pod, Service, Ingress controllers are not part of kube-controller-manager.
* C:ConfigMap and Secret do not have dedicated controllers.
References:
Kubernetes Docs - kube-controller-manager: https://kubernetes.io/docs/reference/command-line-tools- reference/kube-controller-manager/

NEW QUESTION # 47

Which security knowledge-base focuses specifically on offensive tools, techniques, and procedures?

- A. NIST Cybersecurity Framework
- B. CIS Controls
- C. MITRE ATT&CK
- D. OWASP Top 10

Answer: C

Explanation:
* MITRE ATT&CKis a globally recognizedknowledge base of adversary tactics, techniques, and procedures (TTPs). It is focused on describingoffensive behaviorsattackers use.
* Incorrect options:
* (B)OWASP Top 10highlights common application vulnerabilities, not attacker techniques.
* (C)CIS Controlsare defensive best practices, not offensive tools.
* (D)NIST Cybersecurity Frameworkprovides a risk-based defensive framework, not adversary TTPs.
References:
MITRE ATT&CK Framework
CNCF Security Whitepaper - Threat intelligence section: references MITRE ATT&CK for describing attacker behavior.

NEW QUESTION # 48

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