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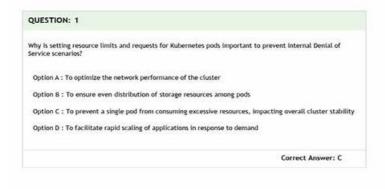


Linux Foundation

KCSA

Kubernetes and Cloud Native Security Associate (KCSA)
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QUESTION & ANSWERS



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With the advent of knowledge times, we all need some professional certificates such as Linux Foundation KCSA to prove ourselves in different working or learning condition. So making right decision of choosing useful practice materials is of vital importance. Here we would like to introduce our Linux Foundation KCSA practice materials for you with our heartfelt sincerity.

Linux Foundation KCSA Exam Syllabus Topics:

| Topic | Details |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | Kubernetes Cluster Component Security: This section of the exam measures the skills of a Kubernetes Administrator and focuses on securing the core components that make up a Kubernetes cluster. It encompasses the security configuration and potential vulnerabilities of essential parts such as the API server, etcd, kubelet, container runtime, and networking elements, ensuring each component is hardened against attacks. |
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| 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 | 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 5 | 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. |

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q20-Q25):

NEW QUESTION # 20

Which of the following snippets from a RoleBinding correctly associates user bob with Role pod-reader?

- A. subjects:
 - kind: Group

name: bob

apiGroup: rbac.authorization.k8s.io

roleRef: kind: Role name: pod-reader

apiGroup: rbac.authorization.k8s.io

• B. subjects:

- kind: User name: bob

apiGroup: rbac.authorization.k8s.io

roleRef:

kind: ClusterRole name: pod-reader

apiGroup: rbac.authorization.k8s.io

- C. subjects:
 - kind: User

name: pod-reader

apiGroup: rbac.authorization.k8s.io

roleRef: kind: Role name: bob

apiGroup: rbac.authorization.k8s.io

• D. subjects:

- kind: User name: bob

apiGroup: rbac.authorization.k8s.io

roleRef: kind: Role name: pod-reader

apiGroup: rbac.authorization.k8s.io

Answer: D

Explanation:

Kubernetes RBAC usesRoleBindingto grant permissions defined in aRoleto asubject(user, group, or service account) within a namespace. The official example shows binding user jane to Role pod-reader:

"A RoleBinding grants the permissions defined in a Role to a user or set of users...." Example:

subjects:

- kind: User name: jane

apiGroup: rbac.authorization.k8s.io

roleRef: kind: Role name: pod-reader

apiGroup: rbac.authorization.k8s.io

- Kubernetes docs, RBAC: RoleBinding and ClusterRoleBinding

OptionBmatches this pattern exactly, with name: bob as the Usersubject and roleRef pointing to the Role named pod-reader.

- * Aswaps the names (subject is pod-reader, role is bob) # incorrect.
- * Creferences aClusterRole, not aRole(the question asks for Role).
- * Duses kind: Group even though we need the Userbob.

References

 $Kubernetes\ Docs\ -\ Using\ RBAC\ Authorization\ \#RoleBinding\ and\ ClusterRoleBinding\ https://kubernetes.io/docs/reference/access-authn-authz/rbac/\#rolebinding-and-clusterrolebinding$

NEW QUESTION #21

In which order are thevalidating and mutating admission controllersrun while the Kubernetes API server processes a request?

- A. Validating and mutating admission controllers run simultaneously.
- B. Validating admission controllers run before mutating admission controllers.
- C. The order of execution varies and is determined by the cluster configuration.
- D. Mutating admission controllers run before validating admission controllers.

Answer: D

Explanation:

- * Theadmission control flowin Kubernetes:
- * Mutating admission controllersrun first and can modify incoming requests.
- * Validating admission controllers run after mutations to ensure the final object complies with policies.
- * This ensures policies validate thefinal, mutated object.

References:

Kubernetes Documentation - Admission Controllers

CNCF Security Whitepaper - Admission control workflow.

NEW OUESTION #22

When using a cloud provider's managed Kubernetes service, who is responsible for maintaining the etcd cluster?

- A. Application developer
- B. Cloud provider
- C. Namespace administrator
- D. Kubernetes administrator

Answer: B

Explanation:

- * Inmanaged Kubernetes services(EKS, GKE, AKS), the control plane is operated by the cloud provider
- * This includeseted, API server, controller manager, scheduler.
- * Users manageworker nodes(in some models) and workloads, but not the control plane.
- * Exact extract (GKE Docs):
- * "The control plane, including the API server and etcd database, is managed and maintained by Google."
- * Similarly for EKS and AKS, etcd is fully managed by the provider.

References:

GKE Architecture: https://cloud.google.com/kubernetes-engine/docs/concepts/cluster-architecture EKS Architecture: https://docs.aws.amazon.com/eks/latest/userguide/eks-architecture.html AKS Docs: https://learn.microsoft.com/en-us/azure/aks/concepts-clusters-workloads

NEW OUESTION #23

Which of the following represents a baseline security measure for containers?

- A. Configuring a static IP for each container.
- B. Implementing access control to restrict container access.
- C. Run containers as the root user.
- D. Configuring persistent storage for containers.

Answer: B

Explanation:

- * Access control (RBAC, least privilege, user restrictions)is abaseline container security best practice.
- * Exact extract (Kubernetes Pod Security Standards Baseline):
- * "The baseline profile is designed to prevent known privilege escalations. It prohibits running privileged containers or containers as root."
- * Other options clarified:
- * B: Static IPs not a security measure.
- * C: Persistent storage is functionality, not security.
- * D: Running as root is explicitly insecure.

References:

Kubernetes Docs - Pod Security Standards (Baseline): https://kubernetes.io/docs/concepts/security/pod-security-standards/

NEW OUESTION #24

A container running in a Kubernetes cluster has permission to modify host processes on the underlying node. What combination of privileges and capabilities is most likely to have led to this privilege escalation?

- A. There is no combination of privileges and capabilities that permits this.
- B. hostNetwork and NET RAW
- C. hostPath and AUDIT WRITE
- D. hostPID and SYS_PTRACE

Answer: D

Explanation:

* hostPID:When enabled, the container shares the host's process namespace # container can see and potentially interact with host processes.

- * SYS PTRACE capability: Grants the container the ability to trace, inspect, and modify other processes (e.g., via ptrace).
- * Combination of hostPID + SYS_PTRACE allows a container toattach to and modify host processes, which is a direct privilege escalation.
- * Other options explained:
- * hostPath + AUDIT WRITE:hostPath exposes filesystem paths but does not inherently allow process modification.
- * hostNetwork + NET RAW:grants raw socket access but only for networking, not host process modification.
- * A:Incorrect such combinations do exist(like B).

References:

Kubernetes Docs - Configure a Pod to use hostPID: https://kubernetes.io/docs/tasks/configure-pod-container/share-process-namespace/

Linux Capabilities man page: https://man7.org/linux/man-pages/man7/capabilities.7.html

NEW QUESTION #25

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