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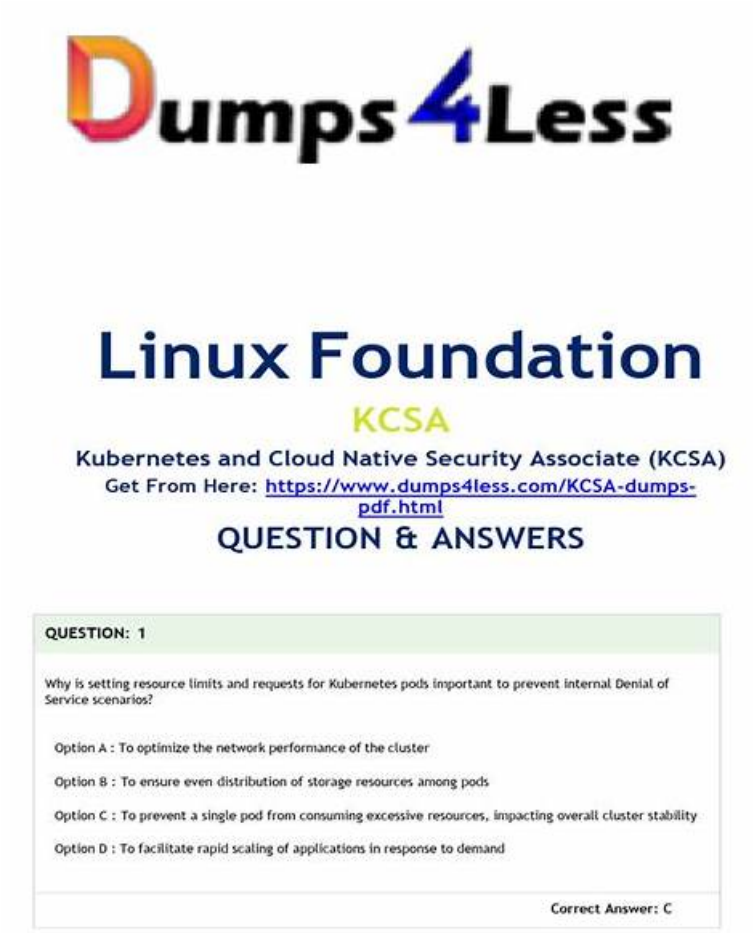

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>> Training KCSA Online <<

Quiz 2026 KCSA: Linux Foundation Kubernetes and Cloud Native Security Associate – Efficient Training Online

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q46-Q51):

NEW QUESTION # 46
What kind of organization would need to be compliant with PCI DSS?

- A. Merchants that process credit card payments.
- B. Government agencies that collect personally identifiable information.
- C. Retail stores that only accept cash payments.
- D. Non-profit organizations that handle sensitive customer data.

Answer: A

Explanation:
* PCI DSS (Payment Card Industry Data Security Standard):applies to any entity thatstores, processes, or transmits cardholder data.
* Exact extract (PCI DSS official summary):
* "PCI DSS applies to all entities that store, process or transmit cardholder data (CHD) and /or sensitive authentication data (SAD)."
* Therefore,merchants who process credit card paymentsmust comply.
* Why others are wrong:
* A: No card payments, so no PCI scope.
* B: This falls underFISMA / NIST 800-53, not PCI DSS.
* C: Non-profits may handle sensitive data, but PCI only applies if they processcredit cards.
References:
PCI Security Standards Council - PCI DSS Summary: https://www.pcisecuritystandards.org/pci_security/

NEW QUESTION # 47
In Kubernetes, what isPublic Key Infrastructure (PKI)used for?

- A. To manage certificates and ensure secure communication in a Kubernetes cluster.
- B. To manage networking in a Kubernetes cluster.
- C. To automate the scaling of containers in a Kubernetes cluster.
- D. To monitor and analyze performance metrics of a Kubernetes cluster.

Answer: A

Explanation:
* Kubernetes usesPKI certificatesextensively to secure communication between control plane components (API server, etcd, kube-scheduler, kube-controller-manager) and with kubelets.
* Certificates enablemutual TLS authentication and encryptionacross components.
* PKI does not handle scaling, networking, or monitoring.
References:
Kubernetes Documentation - Certificates
CNCF Security Whitepaper - Cluster communication security and the role of PKI.

NEW QUESTION # 48
In a Kubernetes environment, what kind of Admission Controller can modify resource manifests when applied to the Kubernetes API to fix misconfigurations automatically?

- A. PodSecurityPolicy
- B. ResourceQuota
- C. ValidatingAdmissionController
- D. MutatingAdmissionController

Answer: D

Explanation:
* Kubernetes Admission Controllers can eithervalidateormutateincoming requests.

* MutatingAdmissionWebhook (Mutating Admission Controller):
* Canmodify or mutate resource manifestsbefore they are persisted in etcd.
* Used for automatic injection of sidecars (e.g., Istio Envoy proxy), setting default values, or fixing misconfigurations.
* ValidatingAdmissionWebhook (Validating Admission Controller):only allows/denies but doesnot change requests.
* PodSecurityPolicy:deprecated; cannot mutate requests.
* ResourceQuota:enforces resource usage, but does not mutate manifests.
Exact Extract:
* "Mutating admission webhooks are invoked first, and can modify objects to enforce defaults.
Validating admission webhooks are invoked second, and can reject requests to enforce invariants.
"
References:
Kubernetes Docs - Admission Controllers: https://kubernetes.io/docs/reference/access-authn-authz/admission-controllers/
Kubernetes Docs - Admission Webhooks: https://kubernetes.io/docs/reference/access-authn-authz/extensible-admission-controllers/

NEW QUESTION # 49
Which of the following statements regarding a container run with privileged: true is correct?

- A. A container run with privileged: true within a cluster can access all Secrets used within that cluster.
- B. A container run with privileged: true within a Namespace can access all Secrets used within that Namespace.
- C. A container run with privileged: true on a node can access all Secrets used on that node.
- D. A container run with privileged: true has no additional access to Secrets than if it were run with privileged: false.

Answer: D

Explanation:
* Setting privileged: true grants a containerelevated access to the host node, including access to host devices, kernel capabilities, and the ability to modify the host.
* However, Secrets in Kubernetes are not automatically exposedto privileged containers. Secrets are mounted into Pods only if explicitly referenced.
* Thus, being privilegeddoes not grant additional access to Kubernetes Secretscompared to a non- privileged Pod.
* The risk lies in node compromise: if a privileged container can take over the node, it could then indirectly gain access to Secrets (e.g., by reading kubelet credentials).
References:
Kubernetes Documentation - Security Context
CNCF Security Whitepaper - Pod security context and privileged container risks.

NEW QUESTION # 50
Which of the following snippets from a RoleBinding correctly associates user bob with Role pod-reader ?

- A. subjects:
  - kind: User
  name: bob
  apiGroup: rbac.authorization.k8s.io
  roleRef:
  kind: Role
  name: pod-reader
  apiGroup: rbac.authorization.k8s.io
- B. subjects:
  - kind: User
  name: pod-reader
  apiGroup: rbac.authorization.k8s.io
  roleRef:
  kind: Role
  name: bob
  apiGroup: rbac.authorization.k8s.io
- C. subjects:

- kind: Group
name: bob
apiGroup: rbac.authorization.k8s.io
roleRef:
kind: Role
name: pod-reader
apiGroup: rbac.authorization.k8s.io

- D. subjects:
- kind: User
name: bob
apiGroup: rbac.authorization.k8s.io
roleRef:
kind: ClusterRole
name: pod-reader
apiGroup: rbac.authorization.k8s.io

Answer: A

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 theUsersubject and roleRef pointing to theRole 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 theUserbob.
References:
Kubernetes Docs - Using RBAC Authorization #RoleBinding and ClusterRoleBinding: https://kubernetes.io
/docs/reference/access-authn-authz/rbac/#rolebinding-and-clusterrolebinding

NEW QUESTION # 51
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