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

### NEW QUESTION # 54

What kind of organization would need to be compliant with PCI DSS?

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

**Answer: B**

Explanation:

\* PCI DSS (Payment Card Industry Data Security Standard) applies to any entity that stores, 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 payments must comply.

\* Why others are wrong:

\* A: No card payments, so no PCI scope.

\* B: This falls under FISMA / NIST 800-53, not PCI DSS.

\* C: Non-profits may handle sensitive data, but PCI only applies if they process credit cards.

References:

PCI Security Standards Council - PCI DSS Summary: [https://www.pcisecuritystandards.org/pci\\_security/](https://www.pcisecuritystandards.org/pci_security/)

### NEW QUESTION # 55

You are responsible for securing the kubelet component in a Kubernetes cluster.

Which of the following statements about kubelet security is correct?

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

**Answer: A**

Explanation:

\* The kubelet is the primary agent that runs on each node in a Kubernetes cluster and communicates with the control plane.

\* Kubelet supports 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 as TLS 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 # 56

What does the cluster-admin ClusterRole enable when used in a RoleBinding?

- A. It allows read/write access to most resources in the role binding's namespace. This role does not allow write access to resource quota, to the namespace itself, and to EndpointSlices (or Endpoints).
- B. It gives full control over every resource in the role binding's namespace, not including the namespace object for isolation purposes.
- **C. It gives full control over every resource in the cluster and in all namespaces.**
- D. It gives full control over every resource in the role binding's namespace, including the namespace itself.

**Answer: C**

Explanation:

\* The cluster-admin ClusterRole is a superuser role in Kubernetes.

\* Binding it (via RoleBinding or ClusterRoleBinding) grants unrestricted control over all resources in the cluster, across all namespaces.

\* This includes management of cluster-scoped resources (nodes, CRDs, RBAC rules) and namespace-scoped resources.

\* Therefore, cluster-admin is equivalent to root-level access in Kubernetes and must be used with extreme caution.

References:

Kubernetes Documentation - Default Roles and Role Bindings

CNCF Security Whitepaper - Identity and Access Management: cautions against assigning cluster-admin broadly due to its unrestricted nature.

### NEW QUESTION # 57

A user runs a command with kubectl to apply a change to a deployment. What is the first Kubernetes component that the request reaches?

- A. kubelet
- **B. Kubernetes API Server**
- C. Kubernetes Controller Manager
- D. Kubernetes Scheduler

**Answer: B**

Explanation:

\* All kubectl requests go to the Kubernetes API Server.

\* The API server is the front-end of the control plane and validates/authenticates requests before other components act.

\* Exact extract (Kubernetes Docs - Components):

\* "The API server is a component of the Kubernetes control plane that exposes the Kubernetes API. It is the front end for the Kubernetes control plane."

\* Other options clarified:

\* Controller Manager: reconciles state after API Server processes the request.

\* Scheduler: assigns Pods to nodes after API Server accepts workload objects.

\* kubelet: node agent, only communicates after API Server updates desired state.

References:

Kubernetes Docs - Components: <https://kubernetes.io/docs/concepts/overview/components/>

### NEW QUESTION # 58

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

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

**Answer: D**

Explanation:

\* Kubernetes Admission Controllers can either validate or mutate incoming requests.

\* MutatingAdmissionWebhook (Mutating Admission Controller):

\* Can modify or mutate resource manifests before 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 does not 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/>

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