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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q28-Q33):

NEW QUESTION # 28
How do Kubernetes namespaces impact the application of policies when using Pod Security Admission?

- A. Namespaces are ignored; Pod Security Admission policies apply cluster-wide only.
- B. The default namespace enforces the strictest security policies by default.
- C. Each namespace can have only one active policy.
- D. Different policies can be applied to specific namespaces.

Answer: D

Explanation:
* Pod Security Admission (PSA)enforces policies by applyinglabels on namespaces, not globally across the cluster.
* Exact extract (Kubernetes Docs - Pod Security Admission):
* "You can apply Pod Security Standards to namespaces by adding labels such as pod- security.kubernetes.io/enforce. Different

namespaces can enforce different policies."
* Clarifications:
* A: Incorrect, namespaces are the unit of enforcement.
* C: Misleading - a namespace can have multiple enforcement modes (enforce, audit, warn).
* D: Default namespace doesnotenforce strict policies unless labeled.
References:
Kubernetes Docs - Pod Security Admission: https://kubernetes.io/docs/concepts/security/pod-security- admission/

NEW QUESTION # 29
What kind of organization would need to be compliant with PCI DSS?

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

Answer: D

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 # 30
What is Grafana?

- A. A cloud-native security tool for scanning and detecting vulnerabilities in Kubernetes clusters.
- B. A cloud-native distributed tracing system for monitoring microservices architectures.
- C. A container orchestration platform for managing and scaling applications.
- D. A platform for monitoring and visualizing time-series data.

Answer: D

Explanation:
* Grafana:An open-source analytics and visualization platform widely used with Prometheus, Loki, etc.
* Exact extract (Grafana Docs):"Grafana is the open-source analytics and monitoring solution for every database. It allows you to query, visualize, alert on, and understand your metrics no matter where they are stored."
* A is wrong:That describesJaeger(distributed tracing).
* B is wrong:That'sKubernetesitself.
* D is wrong:That'sTrivy/Aqua/Prismatype tools.
References:
Grafana Docs: https://grafana.com/docs/grafana/latest/

NEW QUESTION # 31
Which of the following statements regarding a container run with privileged: true is correct?

- A. A container run with privileged: true within a Namespace can access all Secrets used within that Namespace.
- B. A container run with privileged: true within a cluster can access all Secrets used within that cluster.

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

Answer: C

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 # 32
An attacker compromises a Pod and attempts to use its service account token to escalate privileges within the cluster. Which Kubernetes security feature is designed tolimit what this service account can do?

- A. NetworkPolicy
- B. PodSecurity admission
- C. Role-Based Access Control (RBAC)
- D. RuntimeClass

Answer: C

Explanation:
* When a Pod is created, Kubernetes automatically mounts aservice account tokenthat can authenticate to the API server.
* TheRole-Based Access Control (RBAC)system defines what actions a service account can perform.
* By carefully restricting Roles and RoleBindings, administrators limit the blast radius of a compromised Pod.
* Incorrect options:
* (A)PodSecurity admissionenforces workload-level security settings but does not control API access.
* (B)NetworkPolicycontrols network communication, not API privileges.
* (D)RuntimeClassselects container runtimes, unrelated to privilege escalation through API tokens.
References:
Kubernetes Documentation - Using RBAC Authorization
CNCF Security Whitepaper - Identity & Access Management: limiting lateral movement by constraining service account permissions.

NEW QUESTION # 33
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