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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q12-Q17):

NEW QUESTION # 12

Which way of defining security policy brings consistency, minimizes toil, and reduces the probability of misconfiguration?

- A. Manually configuring security controls for each individual resource, regularly.
- **B. Using a declarative approach to define security policies as code.**
- C. Relying on manual audits and inspections for security policy enforcement.
- D. Implementing security policies through manual scripting on an ad-hoc basis.

Answer: B

Explanation:

* Defining policies as code (declarative) is a best practice in Kubernetes and cloud-native security.

* This is aligned with GitOps and Policy-as-Code principles (OPA Gatekeeper, Kyverno, etc.).

* Exact extract (CNCF Security Whitepaper):

* "Policy-as-Code enables declarative definition and enforcement of security policies, bringing consistency, automation, and reducing misconfiguration risk."

* Manual audits, ad-hoc scripting, or individual configurations are error-prone and inconsistent.

References:

CNCF Security Whitepaper: <https://github.com/cncf/tag-security>

Kubernetes Docs - Policy as Code (OPA, Kyverno): <https://kubernetes.io/docs/concepts/security/>

NEW QUESTION # 13

Which of the following statements is true concerning the use of microVMs over user-space kernel implementations for advanced container sandboxing?

- A. MicroVMs provide reduced application compatibility and higher per-system call overhead than user-space kernel implementations.
- B. MicroVMs allow for easier container management and orchestration than user-space kernel implementation.
- C. MicroVMs offer lower isolation and security compared to user-space kernel implementations.
- **D. MicroVMs offer higher isolation than user-space kernel implementations at the cost of a higher per-instance memory footprint.**

Answer: D

Explanation:

* MicroVM-based runtimes (e.g., Firecracker, Kata Containers) use lightweight VMs to provide strong isolation between workloads.

* Compared to user-space kernel implementations (e.g., gVisor), microVMs generally:

* Offer higher isolation and security (due to VM-level separation).

* Come with higher memory and resource overhead per instance than user-space approaches.

* Incorrect options:

* (A) Orchestration is handled by Kubernetes, not inherently easier with microVMs.

* (C) Compatibility is typically better with microVMs, not worse.

* (D) Isolation is stronger, not weaker.

References:

CNCF Security Whitepaper - Workload isolation: microVMs vs. user-space kernel sandboxes.

Kata Containers Project - isolation trade-offs.

NEW QUESTION # 14

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

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

Answer: A

Explanation:

* In managed Kubernetes services (EKS, GKE, AKS), the control plane is operated by the cloud provider.

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* This includes etcd, API server, controller manager, scheduler.

* Users manage worker 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 QUESTION # 15

In a Kubernetes cluster, what are the security risks associated with using ConfigMaps for storing secrets?

- **A. Storing secrets in ConfigMaps can expose sensitive information as they are stored in plaintext and can be accessed by unauthorized users.**
- B. Using ConfigMaps for storing secrets might make applications incompatible with the Kubernetes cluster.
- C. Storing secrets in ConfigMaps does not allow for fine-grained access control via RBAC.
- D. ConfigMaps store sensitive information in etcd encoded in base64 format automatically, which does not ensure confidentiality of data.

Answer: A

Explanation:

* ConfigMaps are explicitly not for confidential data.

* Exact extract (ConfigMap concept): "A ConfigMap is an API object used to store non-confidential data in key-value pairs."

* Exact extract (ConfigMap concept): "ConfigMaps are not intended to hold confidential data. Use a Secret for confidential data."

* Why this is risky: data placed into a ConfigMap is stored as regular (plaintext) string values in the API and etcd (unless you deliberately use binaryData for base64 content you supply). That means if someone has read access to the namespace or to etcd/API server storage, they can view the values.

* Secrets vs ConfigMaps (to clarify distractor D):

* Exact extract (Secret concept): "By default, secret data is stored as unencrypted base64-encoded strings. You can enable encryption at rest to protect Secrets stored in etcd."

* This base64 behavior applies to Secrets, not to ConfigMap data. Thus option D is incorrect for ConfigMaps.

* About RBAC (to clarify distractor A): Kubernetes does support fine-grained RBAC for both ConfigMaps and Secrets; the issue isn't lack of RBAC but that ConfigMaps are not designed for confidential material.

* About compatibility (to clarify distractor C): Using ConfigMaps for secrets doesn't make apps

"incompatible"; it's simply insecure and against guidance.

References:

Kubernetes Docs - ConfigMaps: <https://kubernetes.io/docs/concepts/configuration/configmap/> Kubernetes Docs - Secrets:

<https://kubernetes.io/docs/concepts/configuration/secret/> Kubernetes Docs - Encrypting Secret Data at Rest:

[https://kubernetes.io/docs/tasks/administer-cluster/](https://kubernetes.io/docs/tasks/administer-cluster/encrypt-data/)

[encrypt-data/](https://kubernetes.io/docs/tasks/administer-cluster/encrypt-data/)

Note: The citations above are from the official Kubernetes documentation and reflect the stated guidance that ConfigMaps are for non-confidential data, while Secrets (with encryption at rest enabled) are for confidential data, and that the 4C's map to defense in depth.

NEW QUESTION # 16

Which technology can be used to apply security policy for internal cluster traffic at the application layer of the network?

- A. Ingress Controller
- B. Network Policy
- **C. Service Mesh**
- D. Container Runtime

Answer: C

Explanation:

* Service Mesh (e.g., Istio, Linkerd, Consul): operates at Layer 7 (application layer), enforcing policies like mTLS, authorization, and routing between services.

* NetworkPolicy: works at Layer 3/4 (IP/port), not Layer 7.

* Ingress Controller: handles external traffic ingress, not internal service-to-service traffic.

* Container Runtime: responsible for running containers, not enforcing application-layer security.

Exact extract (Istio docs):

* "Istio provides security by enforcing authentication, authorization, and encryption of service-to-service communication."

References:

Kubernetes Docs - Network Policies: <https://kubernetes.io/docs/concepts/services-networking/network-policies/> Istio Security

Docs: <https://istio.io/latest/docs/concepts/security/>

NEW QUESTION # 17

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