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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q39-Q44):

NEW QUESTION # 39

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

- A. MicroVMs allow for easier container management and orchestration than user-space kernel implementation.
- B. MicroVMs provide reduced application compatibility and higher per-system call overhead than user-space kernel implementations.
- 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 a 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 # 40

You want to minimize security issues in running Kubernetes Pods. Which of the following actions can help achieve this goal?

- A. Sharing sensitive data among Pods in the same cluster to improve collaboration.
- **B. Implement Pod Security standards in the Pod's YAML configuration.**
- C. Running Pods with elevated privileges to maximize their capabilities.
- D. Deploying Pods with randomly generated names to obfuscate their identities.

Answer: B

Explanation:

- * Pod Security Standards (PSS):
- * Kubernetes provides Pod Security Admission (PSA) to enforce security controls based on policies.
- * Official extract: "Pod Security Standards define different isolation levels for Pods. The standards focus on restricting what Pods can do and what they can access."
- * The three standard profiles are:
- * Privileged: unrestricted (not recommended).
- * Baseline: minimal restrictions.
- * Restricted: highly restricted, enforcing least privilege.
- * Why option C is correct:
- * Applying Pod Security Standards in YAML ensures Pods adhere to best practices like:
- * No root user.
- * Restricted host access.
- * No privilege escalation.
- * Seccomp/AppArmor profiles.
- * This directly minimizes security risks.
- * Why others are wrong:
- * A: Sharing sensitive data increases risk of exposure.
- * B: Running with elevated privileges contradicts least privilege principle.
- * D: Random Pod names do not contribute to security.

References:

Kubernetes Docs - Pod Security Standards: <https://kubernetes.io/docs/concepts/security/pod-security-standards/> Kubernetes Docs
- Pod Security Admission: <https://kubernetes.io/docs/concepts/security/pod-security-admission/>

NEW QUESTION # 41

Why might NetworkPolicy resources have no effect in a Kubernetes cluster?

- **A. NetworkPolicy resources are only enforced if the networking plugin supports them.**
- B. NetworkPolicy resources are only enforced if the user has the right RBAC permissions.
- C. NetworkPolicy resources are only enforced if the Kubernetes scheduler supports them.

- D. NetworkPolicy resources are only enforced for unprivileged Pods.

Answer: A

Explanation:

- * NetworkPolicies define how Pods can communicate with each other and external endpoints.
- * However, Kubernetes itself does not enforce NetworkPolicy. Enforcement depends on the CNI plugin used (e.g., Calico, Cilium, Kube-Router, Weave Net).
- * If a cluster is using a network plugin that does not support NetworkPolicies, then creating NetworkPolicy objects has no effect.

References:

Kubernetes Documentation - Network Policies

CNCF Security Whitepaper - Platform security section: notes that security enforcement relies on CNI capabilities.

NEW QUESTION # 42

Is it possible to restrict permissions so that a controller can only change the image of a deployment (without changing anything else about it, e.g., environment variables, commands, replicas, secrets)?

- A. Yes, with a 'managed fields' annotation.
- **B. Not with RBAC, but it is possible with an admission webhook.**
- C. Yes, by granting permission to the /image subresource.
- D. No, because granting access to the spec.containers.image field always grants access to the rest of the spec object.

Answer: B

Explanation:

- * RBAC in Kubernetes is coarse-grained: it controls verbs (get, update, patch, delete) on resources (e.g., deployments), but not individual fields within a resource.
- * There is no /image subresource for deployments (there is one for pods but only for ephemeral containers).
- * Therefore, RBAC cannot restrict changes only to the image field.
- * Admission Webhooks (mutating/validating) can enforce fine-grained policies (e.g., deny updates that change anything other than spec.containers[*].image).
- * Exact extract (Kubernetes Docs - Admission Webhooks):
- * "Admission webhooks can be used to enforce custom policies on objects being admitted." References:
- Kubernetes Docs - RBAC: <https://kubernetes.io/docs/reference/access-authn-authz/rbac/>
- Kubernetes Docs - Admission Webhooks: <https://kubernetes.io/docs/reference/access-authn-authz/extensible-admission-controllers/>

NEW QUESTION # 43

An attacker has access to the network segment that the cluster is on.

What happens when a compromised Pod attempts to connect to the API server?

- A. The compromised Pod connects to the API server and is granted elevated privileges by default.
- **B. The compromised Pod attempts to connect to the API server, but its requests may be blocked due to network policies.**
- C. The compromised Pod is automatically isolated from the network to prevent any connections to the API server.
- D. The compromised Pod is allowed to connect to the API server without any restrictions.

Answer: B

Explanation:

- * By default, Pods can connect to the API server (since ServiceAccount tokens are mounted).
- * However, whether they succeed in acting depends on:
- * Network Policies (may block egress).
- * RBAC (controls permissions).
- * Exact extract (Kubernetes Docs - API Access):
- * "Pods authenticate to the API server using the service account token mounted into the Pod. Authorization is then enforced by RBAC. NetworkPolicies may further restrict access."
- * Clarifications:
- * A: No default automatic isolation.
- * B: Not always unrestricted; policies may apply.

* D: Pods get minimal default privileges, not automatic elevation.

References:

Kubernetes Docs - API Access to Pods: <https://kubernetes.io/docs/concepts/security/service-accounts/> Kubernetes Docs - Network Policies: <https://kubernetes.io/docs/concepts/services-networking/network-policies/>

NEW QUESTION # 44

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