

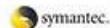
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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q42-Q47):

NEW QUESTION # 42

Which security knowledge-base focuses specifically on offensive tools, techniques, and procedures?

- **A. MITRE ATT&CK**
- B. OWASP Top 10
- C. CIS Controls
- D. NIST Cybersecurity Framework

Answer: A

Explanation:

* MITRE ATT&CK is a globally recognized knowledge base of adversary tactics, techniques, and procedures (TTPs). It is focused on describing offensive behaviors attackers use.

* Incorrect options:

* (B) OWASP Top 10 highlights common application vulnerabilities, not attacker techniques.

* (C) CIS Controls are defensive best practices, not offensive tools.

* (D) NIST Cybersecurity Framework provides a risk-based defensive framework, not adversary TTPs.

References:

MITRE ATT&CK Framework

CNCF Security Whitepaper - Threat intelligence section: references MITRE ATT&CK for describing attacker behavior.

NEW QUESTION # 43

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

Answer: C

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 # 44

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

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

- D. Deploying Pods with randomly generated names to obfuscate their identities.

Answer: C

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 # 45

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

Which of the following statements about kubelet security is correct?

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

Answer: D

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 # 46

In order to reduce the attack surface of the Scheduler, which default parameter should be set to false?

- A. --bind-address
- B. --scheduler-name

- C. --profiling
- D. --secure-kubeconfig

Answer: C

Explanation:

- * The kube-scheduler exposes a profiling/debugging endpoint when --profiling=true (default).
- * This can unnecessarily increase the attack surface.
- * Best practice: set --profiling=false in production.
- * Exact extract (Kubernetes Docs - kube-scheduler flags):
- * "--profiling (default true): Enable profiling via web interface host:port/debug/pprof."
- * Why others are wrong:
- * --scheduler-name: just identifies the scheduler, not a security risk.
- * --secure-kubeconfig: not a valid flag.
- * --bind-address: changing it limits exposure but is not the default risk parameter for profiling.

References:

Kubernetes Docs - kube-scheduler options: <https://kubernetes.io/docs/reference/command-line-tools-reference/kube-scheduler/>

NEW QUESTION # 47

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