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Linux Foundation Kubernetes and Cloud Native Security Associate Sample

Questions (Q32-Q37):

NEW QUESTION # 32
You are responsible for securing thekubeletcomponent in a Kubernetes cluster.
Which of the following statements about kubelet security is correct?

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

Answer: B

Explanation:
* Thekubeletis the primary agent that runs on each node in a Kubernetes cluster and communicates with the control plane.
* Kubeletsupports 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 asTLS 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 # 33
In a cluster that contains Nodes withmultiple container runtimesinstalled, how can a Pod be configured to be created on a specific runtime?

- A. By using a command-line flag when creating the Pod.
- B. By modifying the Docker daemon configuration.
- C. By specifying the container runtime in the Pod's YAML file.
- D. By setting the container runtime as an environment variable in the Pod.

Answer: C

Explanation:
* Kubernetes supportsmultiple container runtimeson a node via theRuntimeClassresource.
* To select a runtime, you specify the runtimeClassName field in thePod's YAML manifest. Example:
* apiVersion: v1
* kind: Pod
* metadata:
* name: example
* spec:
* runtimeClassName: gvisor
* containers:
* - name: app
* image: nginx
* Incorrect options:
* (A) You cannot specify container runtime through a kubectl command-line flag.
* (B) Modifying the Docker daemon config does not direct Kubernetes Pods to a runtime.
* (C) Environment variables inside a Pod spec do not control container runtimes.
References:
Kubernetes Documentation - RuntimeClass
CNCF Security Whitepaper - Workload isolation via different runtimes (e.g., gVisor, Kata) for enhanced security.

NEW QUESTION # 34
Which of the following statements correctly describes a container breakout?

- A. A container breakout is the process of escaping a container when it reaches its resource limits.
- B. A container breakout is the process of escaping the container and gaining access to the cloud provider's infrastructure.
- C. A container breakout is the process of escaping the container and gaining access to the host operating system.
- D. A container breakout is the process of escaping the container and gaining access to the Pod's network traffic.

Answer: C

Explanation:
* Container breakoutrefers to an attacker escaping container isolation and reaching thehost OS.
* Once the host is compromised, the attacker can accessother containers, Kubernetes nodes, or escalate further.
* Exact extract (Kubernetes Security Docs):
* "If an attacker gains access to a container, they may attempt a container breakout to gain access to the host system."
* Other options clarified:
* A: Network access inside a Pod # breakout.
* B: Resource exhaustion is aDoS, not a breakout.
* C: Cloud infrastructure compromise is possibleafterhost compromise, but not the definition of breakout.
References:
Kubernetes Security Concepts: https://kubernetes.io/docs/concepts/security/ CNCF Security Whitepaper (Threats section):https://github.com/cncf/tag-security

NEW QUESTION # 35
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 has no additional access to Secrets than if it were run with privileged: false.
- C. A container run with privileged: true on a node can access all Secrets used on that node.
- D. A container run with privileged: true within a cluster can access all Secrets used within that cluster.

Answer: B

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 # 36
What does thecluster-adminClusterRole 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, including the namespace itself.
- C. It gives full control over every resource in the role binding's namespace, not including the namespace object for isolation purposes.
- D. It gives full control over every resource in the cluster and in all namespaces.

Answer: D

Explanation:
* Thecluster-adminClusterRole is asuperuser rolein Kubernetes.

* Binding it (via RoleBinding or ClusterRoleBinding) grantsunrestricted 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 toroot-level accessin 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 assigningcluster-admin broadly due to its unrestricted nature.

NEW QUESTION # 37
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