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## Linux Foundation

KCSA

Kubernetes and Cloud Native Security Associate (KCSA)

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### QUESTION & ANSWERS

**QUESTION: 1**

Why is setting resource limits and requests for Kubernetes pods important to prevent internal Denial of Service scenarios?

Option A : To optimize the network performance of the cluster

Option B : To ensure even distribution of storage resources among pods

Option C : To prevent a single pod from consuming excessive resources, impacting overall cluster stability

Option D : To facilitate rapid scaling of applications in response to demand

Correct Answer: C

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## Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q20-Q25):

### NEW QUESTION # 20

A cluster is failing to pull more recent versions of images from k8s.gcr.io. Why may this be?

- A. The authentication credentials for accessing k8s.gcr.io are incorrectly scoped.
- B. There is a network connectivity issue between the cluster and k8s.gcr.io.
- C. The container image registry k8s.gcr.io has been deprecated.
- D. There is a bug in the container runtime or the image pull process.

**Answer: C**

Explanation:

\* k8s.gcr.io was the historic Kubernetes image registry.

\* It has been deprecated and replaced with registry.k8s.io.

\* Exact extract (Kubernetes Blog):

\* "The k8s.gcr.io image registry will be frozen from April 3, 2023 and fully deprecated. All Kubernetes project images are now served from registry.k8s.io."

\* Pulling newer versions from k8s.gcr.io fails because the registry no longer receives updates.

References:

Kubernetes Blog - Image Registry Update: <https://kubernetes.io/blog/2023/02/06/k8s-gcr-io-freeze-announcement/>

### NEW QUESTION # 21

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 to limit what this service account can do?

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

**Answer: A**

Explanation:

\* When a Pod is created, Kubernetes automatically mounts a service account token that can authenticate to the API server.

\* The Role-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 admission enforces workload-level security settings but does not control API access.

\* (B) NetworkPolicy controls network communication, not API privileges.

\* (D) RuntimeClass selects 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 # 22

Which step would give an attacker a foothold in a cluster but no long-term persistence?

- A. Modify file on host filesystem.
- B. Modify Kubernetes objects stored within etcd.
- C. Create restarting container on host using Docker.
- D. Starting a process in a running container.

**Answer: D**

Explanation:

\* Starting a process in a running container provides an attacker with temporary execution (foothold) inside the cluster, but once the

container is stopped or restarted, that malicious process is lost. This means the attacker has no long-term persistence.

\* Incorrect options:

\* (A) Modifying objects in etcd grants persistent access since cluster state is stored in etcd.

\* (B) Modifying files on the host filesystem can create persistence across reboots or container restarts.

\* (D) Creating a restarting container directly on the host via Docker bypasses Kubernetes but persists across pod restarts if Docker restarts it.

References:

CNCF Security Whitepaper - Threat Modeling section: Describes how ephemeral processes inside containers provide attackers short-term control but not durable persistence.

Kubernetes Documentation - Cluster Threat Model emphasizes ephemeral vs. persistent attacker footholds.

### NEW QUESTION # 23

Given a standard Kubernetes cluster architecture comprising a single control plane node (hosting both etcd and the control plane as Pods) and three worker nodes, which of the following data flows crosses a trust boundary?

- A. From API Server to Container Runtime
- B. From kubelet to Controller Manager
- C. From kubelet to Container Runtime
- **D. From kubelet to API Server**

**Answer: D**

Explanation:

\* Trust boundaries exist where data flows between different security domains.

\* In Kubernetes:

\* Communication between the kubelet (node agent) and the API Server (control plane) crosses the node-to-control-plane trust boundary.

\* (A) Kubelet to container runtime is local, no boundary crossing.

\* (C) Kubelet does not communicate directly with the controller manager.

\* (D) API server does not talk directly to the container runtime; it delegates to kubelet.

\* Therefore, (B) is the correct trust boundary crossing flow.

References:

CNCF Security Whitepaper - Kubernetes Threat Model: identifies node-to-control-plane communications (kubelet # API Server) as crossing trust boundaries.

Kubernetes Documentation - Cluster Architecture

### NEW QUESTION # 24

In a cluster that contains Nodes with multiple container runtimes installed, how can a Pod be configured to be created on a specific runtime?

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

**Answer: D**

Explanation:

\* Kubernetes supports multiple container runtimes on a node via the `RuntimeClass` resource.

\* To select a runtime, you specify the `runtimeClassName` field in the Pod'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 # 25

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