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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 (Q34-Q39):

### NEW QUESTION # 34

A user runs a command with kubectl to apply a change to a deployment. What is the first Kubernetes component that the request reaches?

- A. Kubernetes API Server
- B. Kubernetes Scheduler
- C. Kubernetes Controller Manager
- D. kubelet

**Answer: A**

Explanation:

- \* All kubectl requests go to the Kubernetes API Server.
- \* The API server is the front-end of the control plane and validates/authenticates requests before other components act.
- \* Exact extract (Kubernetes Docs - Components):
- \* "The API server is a component of the Kubernetes control plane that exposes the Kubernetes API. It is the front end for the Kubernetes control plane."
- \* Other options clarified:
- \* Controller Manager: reconciles state after API Server processes the request.
- \* Scheduler: assigns Pods to nodes after API Server accepts workload objects.
- \* kubelet: node agent, only communicates after API Server updates desired state.

References:

Kubernetes Docs - Components: <https://kubernetes.io/docs/concepts/overview/components/>

### NEW QUESTION # 35

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

**Answer: D**

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 # 36

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

- A. CIS Controls
- B. MITRE ATT&CK

- C. OWASP Top 10
- D. NIST Cybersecurity Framework

**Answer: B**

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 # 37

Which of the following statements best describes the role of the Scheduler in Kubernetes?

- A. The Scheduler is responsible for monitoring and managing the health of the Kubernetes cluster.
- **B. The Scheduler is responsible for assigning Pods to nodes based on resource availability and other constraints.**
- C. The Scheduler is responsible for ensuring the security of the Kubernetes cluster and its components.
- D. The Scheduler is responsible for managing the deployment and scaling of applications in the Kubernetes cluster.

**Answer: B**

Explanation:

\* The Kubernetes Scheduler assigns Pods to nodes based on:

\* Resource requests & availability (CPU, memory, GPU, etc.)

\* Constraints (affinity, taints, tolerations, topology, policies)

\* Exact extract (Kubernetes Docs - Scheduler):

\* "The scheduler is a control plane process that assigns Pods to Nodes. Scheduling decisions take into account resource requirements, affinity/anti-affinity, constraints, and policies."

\* Other options clarified:

\* A: Monitoring cluster health is the Controller Manager's/kubelet's job.

\* B: Security is enforced through RBAC, admission controllers, PSP/PSA, not the scheduler.

\* C: Deployment scaling is handled by the Controller Manager (Deployment/ReplicaSet controller).

References:

Kubernetes Docs - Scheduler: <https://kubernetes.io/docs/concepts/scheduling-eviction/kube-scheduler/>

### NEW QUESTION # 38

What is Grafana?

- A. A container orchestration platform for managing and scaling applications.
- **B. A platform for monitoring and visualizing time-series data.**
- C. A cloud-native security tool for scanning and detecting vulnerabilities in Kubernetes clusters.
- D. A cloud-native distributed tracing system for monitoring microservices architectures.

**Answer: B**

Explanation:

\* Grafana: An open-source analytics and visualization platform widely used with Prometheus, Loki, etc.

\* Exact extract (Grafana Docs): "Grafana is the open-source analytics and monitoring solution for every database. It allows you to query, visualize, alert on, and understand your metrics no matter where they are stored."

\* A is wrong: That describes Jaeger (distributed tracing).

\* B is wrong: That's Kubernetes itself.

\* D is wrong: That's Trivy/Aqua/Prisma type tools.

References:

Grafana Docs: <https://grafana.com/docs/grafana/latest/>

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