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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 (Q30-Q35):

### NEW QUESTION # 30

Which of the following represents a baseline security measure for containers?

- A. Configuring a static IP for each container.
- B. Run containers as the root user.
- **C. Implementing access control to restrict container access.**
- D. Configuring persistent storage for containers.

**Answer: C**

Explanation:

\* Access control (RBAC, least privilege, user restrictions) is a baseline container security best practice.

\* Exact extract (Kubernetes Pod Security Standards - Baseline):

\* "The baseline profile is designed to prevent known privilege escalations. It prohibits running privileged containers or containers as root."

\* Other options clarified:

\* B: Static IPs not a security measure.

\* C: Persistent storage is functionality, not security.

\* D: Running as root is explicitly insecure.

References:

Kubernetes Docs - Pod Security Standards (Baseline): <https://kubernetes.io/docs/concepts/security/pod-security-standards/>

### NEW QUESTION # 31

To restrict the kubelet's rights to the Kubernetes API, what authorization mode should be set on the Kubernetes API server?

- A. AlwaysAllow
- B. kubelet
- **C. Node**
- D. Webhook

**Answer: C**

Explanation:

\* The Node authorization mode is designed to specifically limit what kubelets can do when they connect to the Kubernetes API server.

\* It authorizes requests from kubelets based on the Pods scheduled to run on their nodes, ensuring kubelets cannot interact with resources beyond their scope.

\* Incorrect options:

\* (B) AlwaysAllow allows unrestricted access (insecure).

\* (C) No kubelet authorization mode exists.

\* (D) Webhook mode delegates authorization decisions to an external service, not specifically for kubelets.

References:

Kubernetes Documentation - Node Authorization

CNCF Security Whitepaper - Access control: kubelet authorization and Node authorizer.

### NEW QUESTION # 32

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

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

**Answer: A**

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 # 33

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

**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 # 34

Which of the following is a control for Supply Chain Risk Management according to NIST 800-53 Rev. 5?

- A. Incident Response
- B. System and Communications Protection
- C. Access Control
- **D. Supply Chain Risk Management Plan**

**Answer: D**

Explanation:

- \* NIST SP 800-53 Rev. 5 introduces a dedicated family of controls called Supply Chain Risk Management (SR).
  - \* Within SR, SR-2 (Supply Chain Risk Management Plan) is a specific control.
  - \* Exact extract from NIST 800-53 Rev. 5:
  - \* "The organization develops and implements a supply chain risk management plan for the system, system component, or system service."
  - \* While Access Control, System and Communications Protection, and Incident Response are control families, the correct supply chain-specific control is the Supply Chain Risk Management Plan (SR-2).
- References:  
NIST SP 800-53 Rev. 5 - Security and Privacy Controls for Information Systems and Organizations: <https://csrc.nist.gov/publications/detail/sp/800-53/rev-5/final>

## NEW QUESTION # 35

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