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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 KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Compliance and Security Frameworks: This section of the exam measures the skills of a Compliance Officer and focuses on applying formal structures to ensure security and meet regulatory demands. It covers working with industry-standard compliance and threat modeling frameworks, understanding supply chain security requirements, and utilizing automation tools to maintain and prove an organization's security posture.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Kubernetes Cluster Component Security:</b> This section of the exam measures the skills of a Kubernetes Administrator and focuses on securing the core components that make up a Kubernetes cluster. It encompasses the security configuration and potential vulnerabilities of essential parts such as the API server, etcd, kubelet, container runtime, and networking elements, ensuring each component is hardened against attacks.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Platform Security:</b> This section of the exam measures the skills of a Cloud Security Architect and encompasses broader platform-wide security concerns. This includes securing the software supply chain from image development to deployment, implementing observability and service meshes, managing Public Key Infrastructure (PKI), controlling network connectivity, and using admission controllers to enforce security policies.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Kubernetes Security Fundamentals:</b> This section of the exam measures the skills of a Kubernetes Administrator and covers the primary security mechanisms within Kubernetes. This includes implementing pod security standards and admissions, configuring robust authentication and authorization systems like RBAC, managing secrets properly, and using network policies and audit logging to enforce isolation and monitor cluster activity.</li> </ul>

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## Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q27-Q32):

### NEW QUESTION # 27

What is the purpose of an egress NetworkPolicy?

- A. To control the outbound network traffic from a Kubernetes cluster.
- **B. To control the outgoing network traffic from one or more Kubernetes Pods.**
- C. To control the incoming network traffic to a Kubernetes cluster.
- D. To secure the Kubernetes cluster against unauthorized access.

**Answer: B**

Explanation:

\* NetworkPolicy controls network traffic at the Pod level.

\* Ingress rules: control incoming connections to Pods.

\* Egress rules: control outgoing connections from Pods.

\* Exact extract (Kubernetes Docs - Network Policies):

\* "An egress rule controls outgoing connections from Pods that match the policy."

\* Clarifying wrong answers:

\* A/B: Too broad (cluster-level); policies apply per Pod/namespace.

\* C: Security against unauthorized access is broader than egress policies.

References:

Kubernetes Docs - Network Policies: <https://kubernetes.io/docs/concepts/services-networking/network-policies/>

### NEW QUESTION # 28

On a client machine, what directory (by default) contains sensitive credential information?

- A. /opt/kubernetes/secrets/

- B. \$HOME/.kube
- C. \$HOME/.config/kubernetes/
- D. /etc/kubernetes/

**Answer: B**

Explanation:

- \* The kubectl client uses configuration from \$HOME/.kube/config by default.
- \* This file contains: cluster API server endpoint, user certificates, tokens, or kubeconfigs #sensitive credentials.
- \* Exact extract (Kubernetes Docs - Configure Access to Clusters):
- \* "By default, kubectl looks for a file named config in the \$HOME/.kube directory. This file contains configuration information including user credentials."
- \* Other options clarified:
- \* A: /etc/kubernetes/ exists on nodes (control plane) not client machines.
- \* C: /opt/kubernetes/secrets/ is not a standard path.
- \* D: \$HOME/.config/kubernetes/ is not where kubeconfig is stored by default.

References:

Kubernetes Docs - Configure Access to Clusters: <https://kubernetes.io/docs/concepts/configuration/organize-cluster-access-kubeconfig/>

### NEW QUESTION # 29

What information is stored in etcd?

- A. Sensitive user data such as usernames and passwords.
- B. Pod data contained in Persistent Volume Claims (e.g. hostPath).
- C. Application logs and monitoring data for auditing and troubleshooting purposes.
- D. Etcd manages the configuration data, state data, and metadata for Kubernetes.

**Answer: D**

Explanation:

- \* etcd is Kubernetes' key-value store for cluster state.
- \* Stores: ConfigMaps, Secrets, Pod definitions, Deployments, RBAC policies, and metadata.
- \* Exact extract (Kubernetes Docs - etcd):
- \* "etcd is a consistent and highly-available key-value store used as Kubernetes' backing store for all cluster data."
- \* Clarifications:
- \* B: Logs/metrics are handled by logging/monitoring solutions, not etcd.
- \* C: Secrets may be stored here but encoded in base64, not specifically "usernames/passwords" as primary use.
- \* D: Persistent Volumes are external storage, not stored in etcd.

References:

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

### NEW QUESTION # 30

In Kubernetes, what is Public Key Infrastructure (PKI) used for?

- A. To automate the scaling of containers in a Kubernetes cluster.
- B. To manage networking in a Kubernetes cluster.
- C. To monitor and analyze performance metrics of a Kubernetes cluster.
- D. To manage certificates and ensure secure communication in a Kubernetes cluster.

**Answer: D**

Explanation:

- \* Kubernetes uses PKI certificates extensively to secure communication between control plane components (API server, etcd, kube-scheduler, kube-controller-manager) and with kubelets.
- \* Certificates enable mutual TLS authentication and encryption across components.
- \* PKI does not handle scaling, networking, or monitoring.

References:

Kubernetes Documentation - Certificates

### NEW QUESTION # 31

Which of the following snippets from a RoleBinding correctly associates user bob with Role pod-reader ?

- A. subjects:
  - kind: User
  - name: bob
  - apiGroup: rbac.authorization.k8s.io
  - roleRef:
    - kind: Role
    - name: pod-reader
    - apiGroup: rbac.authorization.k8s.io
- B. subjects:
  - kind: User
  - name: bob
  - apiGroup: rbac.authorization.k8s.io
  - roleRef:
    - kind: ClusterRole
    - name: pod-reader
    - apiGroup: rbac.authorization.k8s.io
- C. subjects:
  - kind: User
  - name: pod-reader
  - apiGroup: rbac.authorization.k8s.io
  - roleRef:
    - kind: Role
    - name: bob
    - apiGroup: rbac.authorization.k8s.io
- D. subjects:
  - kind: Group
  - name: bob
  - apiGroup: rbac.authorization.k8s.io
  - roleRef:
    - kind: Role
    - name: pod-reader
    - apiGroup: rbac.authorization.k8s.io

**Answer: A**

Explanation:

Kubernetes RBAC uses RoleBinding to grant permissions defined in a Role to a subject (user, group, or service account) within a namespace. The official example shows binding user jane to Role pod-reader:

"A RoleBinding grants the permissions defined in a Role to a user or set of users...." Example:

subjects:

```
- kind: User
name: jane
apiGroup: rbac.authorization.k8s.io
roleRef:
kind: Role
name: pod-reader
apiGroup: rbac.authorization.k8s.io
```

- Kubernetes docs, RBAC: RoleBinding and ClusterRoleBinding

Option B matches this pattern exactly, with name: bob as the User subject and roleRef pointing to the Role named pod-reader.

\* Aswaps the names (subject is pod-reader, role is bob) # incorrect.

\* References a ClusterRole, not a Role (the question asks for Role).

\* Duses kind: Group even though we need the User bob.

References:

Kubernetes Docs - Using RBAC Authorization #RoleBinding and ClusterRoleBinding: <https://kubernetes.io/docs/reference/access-authz/rbac/#rolebinding-and-clusterrolebinding>

## NEW QUESTION # 32

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