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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">Kubernetes Security Fundamentals: 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.
Topic 2	<ul style="list-style-type: none">Overview of Cloud Native Security: This section of the exam measures the skills of a Cloud Security Architect and covers the foundational security principles of cloud-native environments. It includes an understanding of the 4Cs security model, the shared responsibility model for cloud infrastructure, common security controls and compliance frameworks, and techniques for isolating resources and securing artifacts like container images and application code.
Topic 3	<ul style="list-style-type: none">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.

Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q58-Q63):

NEW QUESTION # 58

How can a user enforce the Pod Security Standard without third-party tools?

- A. It is only possible to enforce the Pod Security Standard with additional tools within the cloud native ecosystem.
- B. Through implementing Kyverno or OPA Policies.
- C. No additional measures have to be taken to enforce the Pod Security Standard.
- D. Use the PodSecurity admission controller.**

Answer: D

Explanation:

* The PodSecurity admission controller (built-in as of Kubernetes v1.23+) enforces the Pod Security Standards (Privileged, Baseline, Restricted).

* Enforcement is namespace-scoped and configured through namespace labels.

* Incorrect options:

- (A) Kyverno/OPA are external policy tools (useful but not required).
- (C) Not true, PodSecurity admission provides native enforcement.
- (D) Enforcement requires explicit configuration, not automatic.

References:

Kubernetes Documentation - Pod Security Admission

CNCF Security Whitepaper - Policy enforcement and admission control.

NEW QUESTION # 59

Which other controllers are part of the kube-controller-manager inside the Kubernetes cluster?

- A. Job controller, CronJob controller, and DaemonSet controller
- B. Pod, Service, and Ingress controller
- C. Namespace controller, ConfigMap controller, and Secret controller
- D. Replication controller, Endpoints controller, Namespace controller, and ServiceAccounts controller**

Answer: D

Explanation:

- * kube-controller-manager runs a set of controllers that regulate the cluster's state.
- * Exact extract (Kubernetes Docs): "The kube-controller-manager runs controllers that are core to Kubernetes. Examples of controllers are: Node controller, Replication controller, Endpoints controller, Namespace controller, and ServiceAccounts controller."
- * Why D is correct: All listed are actual controllers within kube-controller-manager.
- * Why others are wrong:
- * A: Job and CronJob controllers are managed by kube-controller-manager, but DaemonSet controller is managed by the kube-scheduler/deployment logic.
- * B: Pod, Service, Ingress controllers are not part of kube-controller-manager.
- * C: ConfigMap and Secret do not have dedicated controllers.

References:

Kubernetes Docs - kube-controller-manager: <https://kubernetes.io/docs/reference/command-line-tools-reference/kube-controller-manager/>

NEW QUESTION # 60

Which of the following statements on static Pods is true?

- A. The kubelet only deploys static Pods when the kube-scheduler is unresponsive.
- B. The kubelet can run a maximum of 5 static Pods on each node.
- C. The kubelet schedules static Pods local to its node without going through the kube-scheduler, making tracking and managing them difficult.
- D. The kubelet can run static Pods that span multiple nodes, provided that it has the necessary privileges from the API server.

Answer: C

Explanation:

- * Static Pods are managed directly by the kubelet on each node.
- * They are not scheduled by the kube-scheduler and always remain bound to the node where they are defined.
- * Exact extract (Kubernetes Docs - Static Pods):
- * "Static Pods are managed directly by the kubelet daemon on a specific node, without the API server. They do not go through the Kubernetes scheduler."
- * Clarifications:
- * A: Static Pods do not span multiple nodes.
- * B: No hard limit of 5 Pods per node.
- * D: They are not a fallback mechanism; kubelet always manages them regardless of scheduler state.

References:

Kubernetes Docs - Static Pods: <https://kubernetes.io/docs/tasks/configure-pod-container/static-pod/>

NEW QUESTION # 61

What was the name of the precursor to Pod Security Standards?

- A. Kubernetes Security Context
- B. Container Security Standards
- C. Container Runtime Security
- D. Pod Security Policy

Answer: D

Explanation:

- * Kubernetes originally had a feature called PodSecurityPolicy (PSP), which provided controls to restrict pod behavior.
- * Official docs:
- * "PodSecurityPolicy was deprecated in Kubernetes v1.21 and removed in v1.25."
- * "Pod Security Standards (PSS) replace PodSecurityPolicy (PSP) with a simpler, policy-driven approach."
- * PSP was often complex and hard to manage, so it was replaced by Pod Security Admission (PSA) which enforces Pod Security Standards.

References:

Kubernetes Docs - PodSecurityPolicy (deprecated): <https://kubernetes.io/docs/concepts/security/pod-security-policy/> Kubernetes Blog - PodSecurityPolicy Deprecation: <https://kubernetes.io/blog/2021/04/06/podsecuritypolicy-deprecation-past-present-and-future/>

NEW QUESTION # 62

Which label should be added to the Namespace to block any privileged Pods from being created in that Namespace?

- A. pod.security.kubernetes.io/privileged: false
- B. pod-security.kubernetes.io/enforce: baseline
- C. privileged: false
- D. privileged: true

Answer: B

Explanation:

* Kubernetes Pod Security Admission (PSA) enforces Pod Security Standards by applying labels on Namespaces.

* Exact extract (Kubernetes Docs - Pod Security Admission):

* "You can label a namespace with `pod-security.kubernetes.io/enforce: baseline` to enforce the `Baseline` policy."

* The baseline profile explicitly disallows privileged pods and other unsafe features.

* Why others are wrong:

* A & D: These labels do not exist in Kubernetes.

* B: Setting privileged: true would allow privileged pods, not block them.

References:

Kubernetes Docs - Pod Security Admission: <https://kubernetes.io/docs/concepts/security/pod-security-admission/> Kubernetes Docs - Pod Security Standards: <https://kubernetes.io/docs/concepts/security/pod-security-standards/>

NEW QUESTION # 63

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