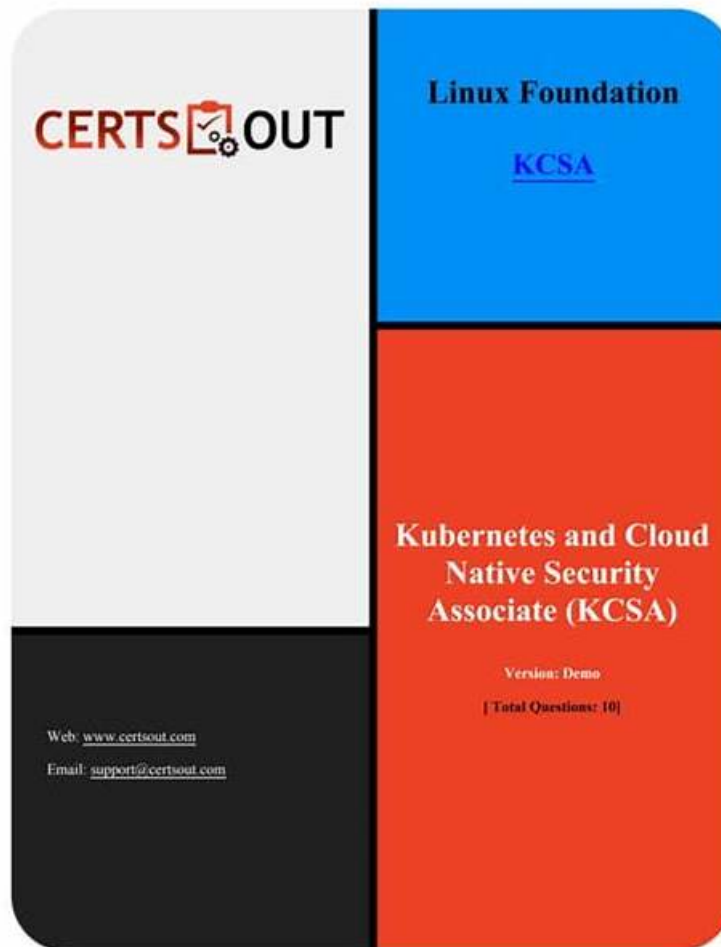


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## Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Kubernetes Threat Model: This section of the exam measures the skills of a Cloud Security Architect and involves identifying and mitigating potential threats to a Kubernetes cluster. It requires understanding common attack vectors like privilege escalation, denial of service, malicious code execution, and network-based attacks, as well as strategies to protect sensitive data and prevent an attacker from gaining persistence within the environment.</li></ul>

Topic 2	<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>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Overview of Cloud Native Security:</b> 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Compliance and Security Frameworks:</b> 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 5	<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>

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## Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q42-Q47):

### NEW QUESTION # 42

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

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

**Answer: D**

Explanation:

\* kube-controller-managerruns 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.

\* 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 # 43

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

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

**Answer: A**

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 # 44

What is the reasoning behind considering the Cloud as the trusted computing base of a Kubernetes cluster?

- A. The Cloud enforces security controls at the Kubernetes cluster level, so application developers can focus on applications only.
- B. A vulnerability in the Cloud layer has a negligible impact on containers due to Linux isolation mechanisms.
- C. **A Kubernetes cluster can only be as secure as the security posture of its Cloud hosting.**
- D. A Kubernetes cluster can only be trusted if the underlying Cloud provider is certified against international standards.

**Answer: C**

Explanation:

\* The 4C's of Cloud Native Security (Cloud, Cluster, Container, Code) model starts with Cloud as the base layer.

\* If the Cloud (infrastructure layer) is compromised, every higher layer (Cluster, Container, Code) inherits that compromise.

\* Exact extract (Kubernetes Security Overview):

\* "The 4C's of Cloud Native security are Cloud, Clusters, Containers, and Code. You can think of the 4C's as a layered approach.

A Kubernetes cluster can only be as secure as the cloud infrastructure it is deployed on."

\* This means the cloud is part of the trusted computing base of a Kubernetes cluster.

References:

Kubernetes Docs - Security Overview (4C's): <https://kubernetes.io/docs/concepts/security/overview/#the-4cs-of-cloud-native-security>

### NEW QUESTION # 45

Why might NetworkPolicy resources have no effect in a Kubernetes cluster?

- A. **NetworkPolicy resources are only enforced if the networking plugin supports them.**
- B. NetworkPolicy resources are only enforced if the user has the right RBAC permissions.
- C. NetworkPolicy resources are only enforced for unprivileged Pods.
- D. NetworkPolicy resources are only enforced if the Kubernetes scheduler supports them.

**Answer: A**

Explanation:

- \* NetworkPolicies define how Pods can communicate with each other and external endpoints.
- \* However, Kubernetes itself does not enforce NetworkPolicy. Enforcement depends on the CNI plugin used (e.g., Calico, Cilium, Kube-Router, Weave Net).
- \* If a cluster is using a network plugin that does not support NetworkPolicies, then creating NetworkPolicy objects has no effect.

References:

Kubernetes Documentation - Network Policies

CNCF Security Whitepaper - Platform security section: notes that security enforcement relies on CNI capabilities.

#### NEW QUESTION # 46

What does the cluster-admin ClusterRole enable when used in a RoleBinding?

- **A. It gives full control over every resource in the cluster and in all namespaces.**
- B. It gives full control over every resource in the role binding's namespace, including the namespace itself.
- C. It gives full control over every resource in the role binding's namespace, not including the namespace object for isolation purposes.
- D. It allows read/write access to most resources in the role binding's namespace. This role does not allow write access to resource quota, to the namespace itself, and to EndpointSlices (or Endpoints).

**Answer: A**

Explanation:

- \* The cluster-admin ClusterRole is a superuser role in Kubernetes.
- \* Binding it (via RoleBinding or ClusterRoleBinding) grants unrestricted control over all resources in the cluster, across all namespaces.
- \* This includes management of cluster-scoped resources (nodes, CRDs, RBAC rules) and namespace-scoped resources.
- \* Therefore, cluster-admin is equivalent to root-level access in Kubernetes and must be used with extreme caution.

References:

Kubernetes Documentation - Default Roles and Role Bindings

CNCF Security Whitepaper - Identity and Access Management: cautions against assigning cluster-admin broadly due to its unrestricted nature.

#### NEW QUESTION # 47

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