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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<ul style="list-style-type: none"> • 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.
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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q12-Q17):

NEW QUESTION # 12

In the event that kube-proxy is in a CrashLoopBackOff state, what impact does it have on the Pods running on the same worker node?

- A. The Pod's resource utilization increases significantly.
- **B. The Pods cannot communicate with other Pods in the cluster.**
- C. The Pod cannot mount persistent volumes through CSI drivers.
- D. The Pod's security context restrictions cannot be enforced.

Answer: B

Explanation:

* kube-proxy manages cluster network routing rules (via iptables or IPVS). It enables Pods to communicate with Services and Pods across nodes.

* If kube-proxy fails (CrashLoopBackOff), service IP routing and cluster-wide pod-to-pod networking breaks. Local Pod-to-Pod communication within the same node may still work, but cross-node communication fails.

* Exact extract (Kubernetes Docs - kube-proxy):

* "kube-proxy maintains network rules on nodes. These rules allow network communication to Pods from network sessions inside or outside of the cluster." References:

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

NEW QUESTION # 13

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

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

Answer: B

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 # 14

What is the purpose of the Supplier Assessments and Reviews control in the NIST 800-53 Rev. 5 set of controls for Supply Chain Risk Management?

- A. To establish contractual agreements with suppliers.
- B. To identify potential suppliers for the organization.
- C. To evaluate and monitor existing suppliers for adherence to security requirements.
- D. To conduct regular audits of suppliers' financial performance.

Answer: C

Explanation:

* In NIST SP 800-53 Rev. 5, SR-6: Supplier Assessments and Reviews requires evaluating and monitoring suppliers' security and risk practices.

* Exact extract (NIST SP 800-53 Rev. 5, SR-6):

* "The organization assesses and monitors suppliers to ensure they are meeting the security requirements specified in contracts and agreements."

* This is about ongoing monitoring of supplier adherence, not financial audits, not contract creation, and not supplier discovery.

References:

NIST SP 800-53 Rev. 5, Control SR-6 (Supplier Assessments and Reviews): <https://csrc.nist.gov/publications/detail/sp/800-53/rev-5/final>

NEW QUESTION # 15

What information is stored in etcd?

- A. Pod data contained in Persistent Volume Claims (e.g. hostPath).
- B. Sensitive user data such as usernames and passwords.
- 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 # 16

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

- A. 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).

- 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 cluster and in all namespaces.**
- D. It gives full control over every resource in the role binding's namespace, not including the namespace object for isolation purposes.

Answer: C

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 # 17

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