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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Kubernetes Cluster Component Security: 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.
Topic 2	<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.

Topic 3	<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 4	<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 5	<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.

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q49-Q54):

NEW QUESTION # 49

What is the main reason an organization would use a Cloud Workload Protection Platform (CWPP) solution?

- A. To automate the deployment and management of containerized workloads.
- B. To manage networking between containerized workloads in the Kubernetes cluster.
- C. To optimize resource utilization and scalability of containerized workloads.
- D. To protect containerized workloads from known vulnerabilities and malware threats.

Answer: D

Explanation:

* CWPP (Cloud Workload Protection Platform): As defined by Gartner and adopted across cloud security practices, CWPPs are designed to secure workloads (VMs, containers, serverless functions) in hybrid and cloud environments.

* They provide vulnerability scanning, runtime protection, compliance checks, and malware detection.

* Exact extract (Gartner CWPP definition): "Cloud workload protection platforms protect workloads regardless of location, including physical machines, VMs, containers, and serverless workloads. They provide vulnerability management, system integrity protection, intrusion detection and prevention, and malware protection." References:

Gartner: Cloud Workload Protection Platforms Market Guide (summary): <https://www.gartner.com/reviews/market/cloud-workload-protection-platforms>

CNCF Security Whitepaper: <https://github.com/cncf/tag-security>

NEW QUESTION # 50

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

- A. \$HOME/.config/kubernetes/

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

Answer: D

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 # 51

A cluster is failing to pull more recent versions of images from k8s.gcr.io. Why may this be?

- A. The container image registry k8s.gcr.io has been deprecated.
- B. There is a network connectivity issue between the cluster and k8s.gcr.io.
- C. The authentication credentials for accessing k8s.gcr.io are incorrectly scoped.
- D. There is a bug in the container runtime or the image pull process.

Answer: A

Explanation:

- * k8s.gcr.io was the historic Kubernetes image registry.
- * It has been deprecated and replaced with registry.k8s.io.
- * Exact extract (Kubernetes Blog):
- * "The k8s.gcr.io image registry will be frozen from April 3, 2023 and fully deprecated. All Kubernetes project images are now served from registry.k8s.io."
- * Pulling newer versions from k8s.gcr.io fails because the registry no longer receives updates.

References:

Kubernetes Blog - Image Registry Update: <https://kubernetes.io/blog/2023/02/06/k8s-gcr-io-freeze-announcement/>

NEW QUESTION # 52

A user runs a command with kubectl to apply a change to a deployment. What is the first Kubernetes component that the request reaches?

- A. kubelet
- B. Kubernetes Scheduler
- C. Kubernetes API Server
- D. Kubernetes Controller Manager

Answer: C

Explanation:

- * All kubectl requests go to the Kubernetes API Server.
- * The API server is the front-end of the control plane and validates/authenticates requests before other components act.
- * Exact extract (Kubernetes Docs - Components):
- * "The API server is a component of the Kubernetes control plane that exposes the Kubernetes API. It is the front end for the Kubernetes control plane."
- * Other options clarified:
- * Controller Manager: reconciles state after API Server processes the request.

- * Scheduler: assigns Pods to nodes after API Server accepts workload objects.
- * kubelet: node agent, only communicates after API Server updates desired state.

References:

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

NEW QUESTION # 53

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

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

Answer: A

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 # 54

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