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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	- 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 2	- 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	- 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	- Platform Security: 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.
Topic 5	- 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.

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q16-Q21):

NEW QUESTION # 16
Which of the following is a valid security risk caused by having no egress controls in a Kubernetes cluster?

- A. Unauthorized access to external resources
- B. Data exfiltration
- C. Denial of Service
- D. Increased attack surface

Answer: B

Explanation:
* Egress NetworkPoliciesrestrict outbound traffic from Pods.
* Without egress restrictions, a compromised Pod could exfiltrate sensitive data (secrets, logs, customer data) to an attacker-controlled server.
* Exact extract (Kubernetes Docs - Network Policies):
* "Egress rules control outbound connections from Pods. Without such restrictions, compromised workloads can connect freely to external endpoints."
* Other options clarified:
* A: DoS is more about flooding, not egress absence.
* C: "Increased attack surface" is vague but not the main risk.

* D: True in a sense, but the precise and most common risk isdata exfiltration.
References:
Kubernetes Docs - Network Policies: https://kubernetes.io/docs/concepts/services-networking/network- policies/

NEW QUESTION # 17
What was the name of the precursor to Pod Security Standards?

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

Answer: D

Explanation:
* Kubernetes originally had a feature calledPodSecurityPolicy (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 enforcesPod 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 # 18
Which of the following statements is true concerning the use ofmicroVMsover user-space kernel implementations for advanced container sandboxing?

- A. MicroVMs provide reduced application compatibility and higher per-system call overhead than user- space kernel implementations.
- B. MicroVMs allow for easier container management and orchestration than user-space kernel implementation.
- C. MicroVMs offer higher isolation than user-space kernel implementations at the cost of a higher per- instance memory footprint.
- D. MicroVMs offer lower isolation and security compared to user-space kernel implementations.

Answer: C

Explanation:
* MicroVM-based runtimes(e.g., Firecracker, Kata Containers) use lightweight VMs to provide strong isolation between workloads.
* Compared touser-space kernel implementations(e.g., gVisor), microVMs generally:
* Offerhigher isolation and security(due to VM-level separation).
* Come with ahigher memory and resource overhead per instancethan user-space approaches.
* Incorrect options:
* (A) Orchestration is handled by Kubernetes, not inherently easier with microVMs.
* (C) Compatibility is typically better with microVMs, not worse.
* (D) Isolation is stronger, not weaker.
References:
CNCF Security Whitepaper - Workload isolation: microVMs vs. user-space kernel sandboxes.
Kata Containers Project - isolation trade-offs.

NEW QUESTION # 19
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 schedules static Pods local to its node without going through the kube-scheduler, making tracking and managing them difficult.
- C. The kubelet can run static Pods that span multiple nodes, provided that it has the necessary privileges from the API server.
- D. The kubelet can run a maximum of 5 static Pods on each node.

Answer: B

Explanation:
* Static Podsare managed directly by thekubeleton each node.
* They arenot scheduled by the kube-schedulerand 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 # 20
An attacker has successfully overwhelmed the Kubernetes API server in a cluster with a single control plane node by flooding it with requests.
How would implementing a high-availability mode with multiple control plane nodes mitigate this attack?

- A. By increasing the resources allocated to the API server, allowing it to handle a higher volume of requests.
- B. By implementing network segmentation to isolate the API server from the rest of the cluster, preventing the attack from spreading.
- C. By implementing rate limiting and throttling mechanisms on the API server to restrict the number of requests allowed.
- D. By distributing the workload across multiple API servers, reducing the load on each server.

Answer: D

Explanation:
* Inhigh-availability clusters, multiple API server instances run behind a load balancer.
* Thisdistributes client requests across multiple API servers, preventing a single API server from being overwhelmed.
* Exact extract (Kubernetes Docs - High Availability Clusters):
* "A highly available control plane runs multiple instances of kube-apiserver, typically fronted by a load balancer, so that if one instance fails or is overloaded, others continue serving requests."
* Other options clarified:
* A: Network segmentation does not directly mitigate API server DoS.
* C: Adding resources helps, but doesn't solve single-point-of-failure.
* D: Rate limiting is a valid mitigation but not provided by HA alone.
References:
Kubernetes Docs - Building High-Availability Clusters: https://kubernetes.io/docs/setup/production-environment/tools/kubeadm/high-availability/

NEW QUESTION # 21
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