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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q20-Q25):

NEW QUESTION # 20
Which of the following statements best describes the role of the Scheduler in Kubernetes?

- A. The Scheduler is responsible for monitoring and managing the health of the Kubernetes cluster.
- B. The Scheduler is responsible for managing the deployment and scaling of applications in the Kubernetes cluster.
- C. The Scheduler is responsible for assigning Pods to nodes based on resource availability and other constraints.
- D. The Scheduler is responsible for ensuring the security of the Kubernetes cluster and its components.

Answer: C

Explanation:
* TheKubernetes Schedulerassigns Pods to nodes based on:
* Resource requests & availability (CPU, memory, GPU, etc.)
* Constraints (affinity, taints, tolerations, topology, policies)
* Exact extract (Kubernetes Docs - Scheduler):
* "The scheduler is a control plane process that assigns Pods to Nodes. Scheduling decisions take into account resource requirements, affinity/anti-affinity, constraints, and policies."
* Other options clarified:
* A: Monitoring cluster health is theController Manager's/kubelet's job.
* B: Security is enforced throughRBAC, admission controllers, PSP/PSA, not the scheduler.
* C: Deployment scaling is handled by theController Manager(Deployment/ReplicaSet controller).
References:
Kubernetes Docs - Scheduler: https://kubernetes.io/docs/concepts/scheduling-eviction/kube-scheduler/

NEW QUESTION # 21
Which step would give an attacker a foothold in a cluster butno long-term persistence?

- A. Modify file on host filesystem.
- B. Starting a process in a running container.
- C. Modify Kubernetes objects stored within etcd.
- D. Create restarting container on host using Docker.

Answer: B

Explanation:
* Starting a process in a running containerprovides an attacker withtemporary execution (foothold) inside the cluster, but once the container is stopped or restarted, that malicious process is lost. This means the attacker has nolong-term persistence.
* Incorrect options:
* (A) Modifying objects inetcdgrants persistent access since cluster state is stored in etcd.
* (B) Modifying files on thehost filesystemcan create persistence across reboots or container restarts.
* (D) Creating a restarting container directly on the host via Docker bypasses Kubernetes but persists across pod restarts if Docker restarts it.
References:
CNCF Security Whitepaper - Threat Modeling section: Describes howephemeral processes inside containersprovide attackers short-term control but not durable persistence.
Kubernetes Documentation - Cluster Threat Model emphasizes ephemeral vs. persistent attacker footholds.

NEW QUESTION # 22
Which of the following statements is true concerning the use ofmicroVMsover user-space kernel implementations for advanced container sandboxing?

- A. MicroVMs allow for easier container management and orchestration than user-space kernel implementation.

- B. MicroVMs provide reduced application compatibility and higher per-system call overhead than user- space kernel implementations.
- 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 # 23
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. Kubernetes API Server
- B. kubelet
- C. Kubernetes Scheduler
- D. Kubernetes Controller Manager

Answer: A

Explanation:
* Allkubectl requestsgo to theKubernetes API Server.
* The API server is thefront-end of the control planeand 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 # 24
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 conduct regular audits of suppliers' financial performance.
- B. To evaluate and monitor existing suppliers for adherence to security requirements.
- C. To identify potential suppliers for the organization.
- D. To establish contractual agreements with suppliers.

Answer: B

Explanation:
* In NIST SP 800-53 Rev. 5,SR-6: Supplier Assessments and Reviewsrequires 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 # 25

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