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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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.

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q32-Q37):

NEW QUESTION # 32
In a cluster that contains Nodes withmultiple container runtimesinstalled, how can a Pod be configured to be created on a specific runtime?

- A. By using a command-line flag when creating the Pod.
- B. By modifying the Docker daemon configuration.
- C. By specifying the container runtime in the Pod's YAML file.
- D. By setting the container runtime as an environment variable in the Pod.

Answer: C

Explanation:
* Kubernetes supportsmultiple container runtimeson a node via theRuntimeClassresource.
* To select a runtime, you specify the runtimeClassName field in thePod's YAML manifest. Example:
* apiVersion: v1
* kind: Pod
* metadata:
* name: example
* spec:
* runtimeClassName: gvisor
* containers:
* - name: app
* image: nginx
* Incorrect options:
* (A) You cannot specify container runtime through a kubectl command-line flag.
* (B) Modifying the Docker daemon config does not direct Kubernetes Pods to a runtime.
* (C) Environment variables inside a Pod spec do not control container runtimes.
References:
Kubernetes Documentation - RuntimeClass
CNCF Security Whitepaper - Workload isolation via different runtimes (e.g., gVisor, Kata) for enhanced security.

NEW QUESTION # 33
Which of the following statements best describes the role of the Scheduler in Kubernetes?

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

Answer: B

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 # 34
What does thecluster-adminClusterRole enable when used in a RoleBinding?

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

Answer: B

Explanation:
* Thecluster-adminClusterRole is asuperuser rolein Kubernetes.
* Binding it (via RoleBinding or ClusterRoleBinding) grantsunrestricted 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 toroot-level accessin 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 assigningcluster-admin broadly due to its unrestricted nature.

NEW QUESTION # 35
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 a maximum of 5 static Pods on each node.
- D. The kubelet can run static Pods that span multiple nodes, provided that it has the necessary privileges from the API server.

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 # 36
What is a multi-stage build?

- A. A build process that involves multiple containers running simultaneously to speed up the image creation.
- B. A build process that involves multiple developers collaborating on building an image.
- C. A build process that involves multiple repositories for storing container images.
- D. A build process that involves multiple stages of image creation, allowing for smaller, optimized images.

Answer: D

Explanation:
* Multi-stage buildsare a Docker/Kaniko feature that allows building images in multiple stages # final image contains only runtime

artifacts, not build tools.
* This reducesimage size, attack surface, and security risks.
* Exact extract (Docker Docs):
* "Multi-stage builds allow you to use multiple FROM statements in a Dockerfile. You can copy artifacts from one stage to another, resulting in smaller, optimized images."
* Clarifications:
* A: Collaboration is not the definition.
* B: Multiple repositories # multi-stage builds.
* C: Build concurrency # multi-stage builds.
References:
Docker Docs - Multi-Stage Builds: https://docs.docker.com/develop/develop-images/multistage-build/

NEW QUESTION # 37
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