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The Linux Foundation KCSA exam questions on the platform have been gathered by subject matter experts to ensure that they accurately reflect the format and difficulty level of the actual Linux Foundation KCSA exam. This makes these Linux Foundation Kubernetes and Cloud Native Security Associate PDF Questions ideal for individuals looking to pass the Linux Foundation KCSA Exam on their first try. You can evaluate the product with a free KCSA demo.

Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• 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 5	• 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 (Q33-Q38):

NEW QUESTION # 33
As a Kubernetes and Cloud Native Security Associate, a user can set upaudit loggingin a cluster. What is the risk of logging every event at the fullRequestResponselevel?

- A. Increased storage requirements and potential impact on performance.
- B. Reduced storage requirements and faster performance.
- C. No risk, as it provides the most comprehensive audit trail.
- D. Improved security and easier incident investigation.

Answer: A

Explanation:
* Audit loggingrecords API server requests and responses for security monitoring.
* TheRequestResponse levellogs the full request and response bodies, which can:
* Significantly increasestorage and performance overhead.
* Potentially log sensitive data (including Secrets).
* Therefore, while comprehensive, it introduces risks of performance degradation and excessive log volume.
References:
Kubernetes Documentation - Auditing
CNCF Security Whitepaper - Logging and monitoring: trade-offs between verbosity, storage, and security.

NEW QUESTION # 34
Which of the following statements regarding a container run with privileged: true is correct?

- A. A container run with privileged: true has no additional access to Secrets than if it were run with privileged: false.
- B. A container run with privileged: true on a node can access all Secrets used on that node.
- C. A container run with privileged: true within a Namespace can access all Secrets used within that Namespace.
- D. A container run with privileged: true within a cluster can access all Secrets used within that cluster.

Answer: A

Explanation:

* Setting privileged: true grants a containerelevated access to the host node, including access to host devices, kernel capabilities, and the ability to modify the host.
* However, Secrets in Kubernetes are not automatically exposedto privileged containers. Secrets are mounted into Pods only if explicitly referenced.
* Thus, being privilegeddoes not grant additional access to Kubernetes Secretscompared to a non- privileged Pod.
* The risk lies in node compromise: if a privileged container can take over the node, it could then indirectly gain access to Secrets (e.g., by reading kubelet credentials).
References:
Kubernetes Documentation - Security Context
CNCF Security Whitepaper - Pod security context and privileged container risks.

NEW QUESTION # 35
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 bug in the container runtime or the image pull process.
- C. There is a network connectivity issue between the cluster and k8s.gcr.io.
- D. The authentication credentials for accessing k8s.gcr.io are incorrectly scoped.

Answer: A

Explanation:
* k8s.gcr.iowas the historic Kubernetes image registry.
* It has beendeprecatedand replaced withregistry.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 # 36
How do Kubernetes namespaces impact the application of policies when using Pod Security Admission?

- A. The default namespace enforces the strictest security policies by default.
- B. Each namespace can have only one active policy.
- C. Different policies can be applied to specific namespaces.
- D. Namespaces are ignored; Pod Security Admission policies apply cluster-wide only.

Answer: C

Explanation:
* Pod Security Admission (PSA)enforces policies by applyinglabels on namespaces, not globally across the cluster.
* Exact extract (Kubernetes Docs - Pod Security Admission):
* "You can apply Pod Security Standards to namespaces by adding labels such as pod- security.kubernetes.io/enforce. Different namespaces can enforce different policies."
* Clarifications:
* A: Incorrect, namespaces are the unit of enforcement.
* C: Misleading - a namespace can have multiple enforcement modes (enforce, audit, warn).
* D: Default namespace doesnotenforce strict policies unless labeled.
References:
Kubernetes Docs - Pod Security Admission: https://kubernetes.io/docs/concepts/security/pod-security- admission/

NEW QUESTION # 37
What is a multi-stage build?

- A. A build process that involves multiple repositories for storing container images.

- B. A build process that involves multiple developers collaborating on building an image.
- C. A build process that involves multiple containers running simultaneously to speed up the image creation.
- 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 # 38
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