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Linux Foundation KCSA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
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	• 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 (Q20-Q25):

NEW QUESTION # 20
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. Reduced storage requirements and faster performance.
- B. Increased storage requirements and potential impact on performance.
- C. Improved security and easier incident investigation.
- D. No risk, as it provides the most comprehensive audit trail.

Answer: B

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 # 21
How do Kubernetes namespaces impact the application of policies when using Pod Security Admission?

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

Answer: B

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 # 22
What kind of organization would need to be compliant with PCI DSS?

- A. Non-profit organizations that handle sensitive customer data.
- B. Merchants that process credit card payments.
- C. Retail stores that only accept cash payments.
- D. Government agencies that collect personally identifiable information.

Answer: B

Explanation:
* PCI DSS (Payment Card Industry Data Security Standard):applies to any entity thatstores, processes, or transmits cardholder data.
* Exact extract (PCI DSS official summary):
* "PCI DSS applies to all entities that store, process or transmit cardholder data (CHD) and /or sensitive authentication data (SAD)."
* Therefore,merchants who process credit card paymentsmust comply.
* Why others are wrong:
* A: No card payments, so no PCI scope.
* B: This falls underFISMA / NIST 800-53, not PCI DSS.
* C: Non-profits may handle sensitive data, but PCI only applies if they processcredit cards.
References:
PCI Security Standards Council - PCI DSS Summary: https://www.pcisecuritystandards.org/pci_security/

NEW QUESTION # 23
Which of the following snippets from a RoleBinding correctly associates user bob with Role pod-reader ?

- A. subjects:
  - kind: User
  name: bob
  apiGroup: rbac.authorization.k8s.io
  roleRef:
  kind: Role
  name: pod-reader
  apiGroup: rbac.authorization.k8s.io
- B. subjects:
  - kind: User
  name: pod-reader
  apiGroup: rbac.authorization.k8s.io
  roleRef:
  kind: Role
  name: bob
  apiGroup: rbac.authorization.k8s.io
- C. subjects:
  - kind: User
  name: bob
  apiGroup: rbac.authorization.k8s.io
  roleRef:
  kind: ClusterRole
  name: pod-reader
  apiGroup: rbac.authorization.k8s.io

- D. subjects:
  - kind: Group
  name: bob
  apiGroup: rbac.authorization.k8s.io
  roleRef:
  kind: Role
  name: pod-reader
  apiGroup: rbac.authorization.k8s.io

Answer: A

Explanation:
Kubernetes RBAC usesRoleBindingto grant permissions defined in aRoleto asubject(user, group, or service account) within a namespace. The official example shows binding user jane to Role pod-reader:
"A RoleBinding grants the permissions defined in a Role to a user or set of users...." Example:
subjects:
- kind: User
name: jane
apiGroup: rbac.authorization.k8s.io
roleRef:
kind: Role
name: pod-reader
apiGroup: rbac.authorization.k8s.io
- Kubernetes docs, RBAC: RoleBinding and ClusterRoleBinding
OptionBmatches this pattern exactly, with name: bob as theUsersubject and roleRef pointing to theRole named pod-reader.
* Aswaps the names (subject is pod-reader, role is bob) # incorrect.
* Creferences aClusterRole, not aRole(the question asks for Role).
* Duses kind: Group even though we need theUserbob.
References:
Kubernetes Docs - Using RBAC Authorization #RoleBinding and ClusterRoleBinding: https://kubernetes.io
/docs/reference/access-authn-authz/rbac/#rolebinding-and-clusterrolebinding

NEW QUESTION # 24
In order to reduce the attack surface of the Scheduler, which default parameter should be set to false?

- A. --scheduler-name
- B. --profiling
- C. --secure-kubeconfig
- D. --bind-address

Answer: B

Explanation:
* Thekube-schedulerexposes aprofiling/debugging endpointwhen --profiling=true (default).
* This can unnecessarily increase the attack surface.
* Best practice: set --profiling=false in production.
* Exact extract (Kubernetes Docs - kube-scheduler flags):
* "--profiling (default true): Enable profiling via web interface host:port/debug/pprof/."
* Why others are wrong:
* --scheduler-name: just identifies the scheduler, not a security risk.
* --secure-kubeconfig: not a valid flag.
* --bind-address: changing it limits exposure but is not the default risk parameter for profiling.
References:
Kubernetes Docs - kube-scheduler options: https://kubernetes.io/docs/reference/command-line-tools- reference/kube-scheduler/

NEW QUESTION # 25
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