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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q25-Q30):

NEW QUESTION # 25
Which of the following snippets from a RoleBinding correctly associates user bob with Role pod-reader ?

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

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

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

Answer: B

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 # 26
In order to reduce the attack surface of the Scheduler, which default parameter should be set to false?

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

Answer: C

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 # 27
What kind of organization would need to be compliant with PCI DSS?

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

Answer: A

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 # 28
Which of the following statements best describes the role of the Scheduler in Kubernetes?

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

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 # 29
In Kubernetes, what isPublic Key Infrastructure (PKI)used for?

- A. To automate the scaling of containers in a Kubernetes cluster.
- B. To manage certificates and ensure secure communication in a Kubernetes cluster.
- C. To manage networking in a Kubernetes cluster.
- D. To monitor and analyze performance metrics of a Kubernetes cluster.

Answer: B

Explanation:
* Kubernetes usesPKI certificatesextensively to secure communication between control plane components (API server, etcd, kube-scheduler, kube-controller-manager) and with kubelets.
* Certificates enablemutual TLS authentication and encryptionacross components.
* PKI does not handle scaling, networking, or monitoring.
References:
Kubernetes Documentation - Certificates
CNCF Security Whitepaper - Cluster communication security and the role of PKI.

NEW QUESTION # 30
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