Quiz Linux Foundation - KCSA - Authoritative Linux Foundation Kubernetes and Cloud Native Security Associate Exam Simulations

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Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q24-Q29):

NEW QUESTION # 24
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 # 25
When using a cloud provider's managed Kubernetes service, who is responsible for maintaining the etcd cluster?

- A. Application developer
- B. Namespace administrator
- C. Kubernetes administrator
- D. Cloud provider

Answer: D

Explanation:
* Inmanaged Kubernetes services(EKS, GKE, AKS), the control plane is operated by thecloud provider
.
* This includesetcd, API server, controller manager, scheduler.
* Users manageworker nodes(in some models) and workloads, but not the control plane.
* Exact extract (GKE Docs):
* "The control plane, including the API server and etcd database, is managed and maintained by Google."
* Similarly forEKSandAKS, etcd is fully managed by the provider.
References:
GKE Architecture: https://cloud.google.com/kubernetes-engine/docs/concepts/cluster-architecture EKS Architecture: https://docs.aws.amazon.com/eks/latest/userguide/eks-architecture.html AKS Docs: https://learn.microsoft.com/en-us/azure/aks/concepts-clusters-workloads

NEW QUESTION # 26
To restrict the kubelet's rights to the Kubernetes API, whatauthorization modeshould be set on the Kubernetes API server?

- A. kubelet
- B. AlwaysAllow
- C. Node
- D. Webhook

Answer: C

Explanation:
* TheNode authorization modeis designed to specifically limit what kubelets can do when they connect to the Kubernetes API server.
* It authorizes requests from kubelets based on the Pods scheduled to run on their nodes, ensuring kubelets cannot interact with resources beyond their scope.
* Incorrect options:
* (B)AlwaysAllowallows unrestricted access (insecure).
* (C) No kubelet authorization mode exists.
* (D)Webhookmode delegates authorization decisions to an external service, not specifically for kubelets.
References:
Kubernetes Documentation - Node Authorization
CNCF Security Whitepaper - Access control: kubelet authorization and Node authorizer.

NEW QUESTION # 27
A Kubernetes cluster tenant can launch privileged Pods in contravention of therestricted Pod Security Standardmandated for cluster

tenants and enforced by the built-inPodSecurity admission controller.
The tenant has full CRUD permissions on the namespace object and the namespaced resources. How did the tenant achieve this?

- A. The scope of the tenant role means privilege escalation is impossible.
- B. By deleting the PodSecurity admission controller deployment running in their namespace.
- C. By using higher-level access credentials obtained reading secrets from another namespace.
- D. By tampering with the namespace labels.

Answer: D

Explanation:
* ThePodSecurity admission controllerenforces Pod Security Standards (Baseline, Restricted, Privileged)based on namespace labels.
* If a tenant has full CRUD on the namespace object, they canmodify the namespace labelsto remove or weaken the restriction (e.g., setting pod-security.kubernetes.io/enforce=privileged).
* This allows privileged Pods to be admitted despite the security policy.
* Incorrect options:
* (A) is false - namespace-level access allows tampering.
* (C) is invalid - PodSecurity admission is not namespace-deployed, it's a cluster-wide admission controller.
* (D) is unrelated - Secrets from other namespaces wouldn't directly bypass PodSecurity enforcement.
References:
Kubernetes Documentation - Pod Security Admission
CNCF Security Whitepaper - Admission control and namespace-level policy enforcement weaknesses.

NEW QUESTION # 28
In which order are thevalidating and mutating admission controllersrun while the Kubernetes API server processes a request?

- A. Mutating admission controllers run before validating admission controllers.
- B. Validating and mutating admission controllers run simultaneously.
- C. The order of execution varies and is determined by the cluster configuration.
- D. Validating admission controllers run before mutating admission controllers.

Answer: A

Explanation:
* Theadmission control flowin Kubernetes:
* Mutating admission controllersrun first and can modify incoming requests.
* Validating admission controllersrun after mutations to ensure the final object complies with policies.
* This ensures policies validate thefinal, mutated object.
References:
Kubernetes Documentation - Admission Controllers
CNCF Security Whitepaper - Admission control workflow.

NEW QUESTION # 29
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