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Questions & Answers PDF

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Linux Foundation

CKS Exam

Certified Kubernetes Security Specialist

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The CKS certification exam is an industry-recognized certification that validates the knowledge and skills of IT professionals in securing Kubernetes clusters and applications. It is an essential certification for IT professionals who work with Kubernetes in production environments and want to enhance their knowledge and skills in Kubernetes security. The CKS Certification Exam is rigorous and comprehensive, covering various aspects of Kubernetes security, and its vendor-neutral nature makes it widely recognized and valued in the industry.

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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q41-Q46):

NEW QUESTION # 41

You have a Kubernetes cluster running a microservices application With various components communicating over a shared network. You want to implement a solution that allows secure communication between these components while enforcing fine-grained access control. How would you use a service mesh like Istio to achieve this?

Answer:

Explanation:

Solution (Step by Step):

1. Install Istio: Install the Istio control plane and sidecar proxies into your Kubernetes cluster. Refer to the Istio documentation for installation instructions.
2. Enable Mutual TLS: Configure Istio to enforce mutual TLS (mTLS) authentication for communication between services within the mesh. This ensures that only authorized services can communicate with each other.
 - Istio Configuration: Modify the Istio configuration (e.g., `istio-config.yaml`) to enable mTLS:
3. Create Service Accounts: Create dedicated service accounts for each microservice within the application. - Kubernetes Service Account: Create Service Accounts for each microservice in the appropriate namespaces:
 - Istio Workload Identity: Create a Workload Identity that associates service accounts with their corresponding identities:
5. Configure Service-to-Service Access Control: Use Istio's authorization policies to define fine-grained access control between microservices. - Istio Authorization Policy: Create authorization policies to specify which services can access specific resources:
 - Istio Authorization Policy: Create authorization policies to specify which services can access specific resources:
6. Monitor and Audit: Use Istio's telemetry and tracing capabilities to monitor and audit secure communication between services. Important Notes: - Trust Domain: Ensure a consistent trust domain across all services within the mesh. - Service Account and Identity Management: Manage service accounts and identities effectively to enforce access control. - Authorization Policies: Define granular policies for specific access requirements. - Auditing and Monitoring: Regularly review and audit communication patterns to identify potential security issues. - Istio Versions: Ensure compatibility With your Istio version.

NEW QUESTION # 42

Context

A CIS Benchmark tool was run against the kubeadm-created cluster and found multiple issues that must be addressed immediately.

Task

Fix all issues via configuration and restart the affected components to ensure the new settings take effect.

Fix all of the following violations that were found against the API server:

- Fix all of the following violations that were found against the Kubelet:

- Fix all of the following violations that were found against etcd:

Answer:

Explanation:

□
□
□

NEW QUESTION # 43

You have an Nginx pod deployed in your Kubernetes cluster. You need to set up a PodSecurityPolicy (PSP) that allows the Nginx pod to access only specific network ports and disallows it from accessing other ports. Describe the steps you would take to implement this PSP.

Answer:

Explanation:

Solution (Step by Step) :

1. Create PodSecurityPolicy (PSP):

- Define a PodSecurityPolicy (PSP) YAML file. This file will restrict the Nginx pod's network access.

- For example, you could define a PSP that allows the Nginx pod to access ports 80 and 443 (HTTP and HTTPS) but restricts access to all other ports:

2. Apply the PSP - Apply the PSP YAML file using 'kubectl apply -f nginx-psp.yaml' 3. Bind the PSP to the Nginx Pod: - Update the Nginx deployment or pod definition to include the 'securityContext' field with a reference to the created PSP:

4. Verify the psp: - Check that the Nginx pod is using the PSP by running 'kubectl describe pod '. You should see the PSP name listed in the "Security Context" section. 5. Test Access: - Verify that the Nginx pod can access ports 80 and 443 but not other ports. You can use tools like 'telnet' or 'nc' to test connectivity.

NEW QUESTION # 44

SIMULATION

Context

A CIS Benchmark tool was run against the kubeadm-created cluster and found multiple issues that must be addressed immediately.

Task

Fix all issues via configuration and restart the affected components to ensure the new settings take effect.

Fix all of the following violations that were found against the API server:

Fix all of the following violations that were found against the Kubelet:

Fix all of the following violations that were found against etcd:

Answer:

Explanation:

See the Explanation below

Explanation:

□
□
□

NEW QUESTION # 45

SIMULATION

Context

Your organization's security policy includes:

ServiceAccounts must not automount API credentials

ServiceAccount names must end in "-sa"

The Pod specified in the manifest file /home/candidate/KSCH00301 /pod-manifest.yaml fails to schedule because of an incorrectly specified ServiceAccount.

Complete the following tasks:

Task

1. Create a new ServiceAccount named frontend-sa in the existing namespace qa. Ensure the ServiceAccount does not automount API credentials.

2. Using the manifest file at /home/candidate/KSCH00301 /pod-manifest.yaml, create the Pod.

3. Finally, clean up any unused ServiceAccounts in namespace qa.

Answer:

Explanation:

See the Explanation below

Explanation:

□

NEW QUESTION # 46

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