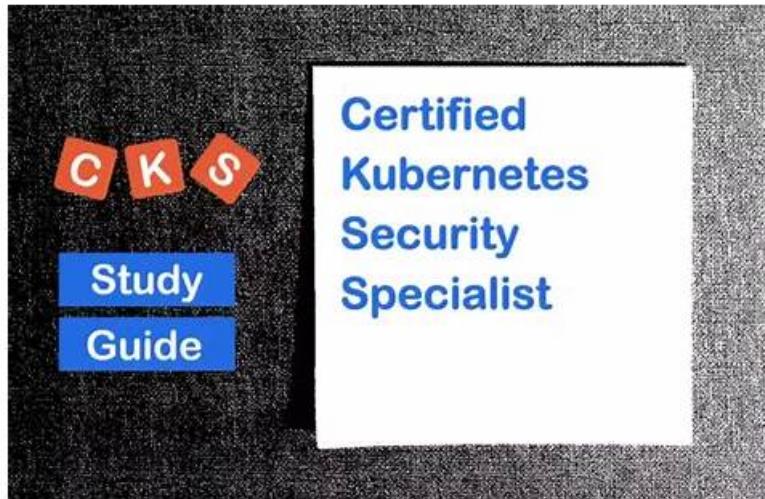# Trustworthy Accurate CKS Study Material Offers Candidates Pass-Sure Actual Linux Foundation Certified Kubernetes Security Specialist (CKS) Exam Products

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The Certified Kubernetes Security Specialist (CKS) (CKS) exam questions are being offered in three different formats. The names of these formats are CKS desktop practice test software, web-based practice test software, and PDF dumps file. The CKS desktop practice test software and web-based practice test software both give you real-time Linux Foundation CKS exam environment for quick and complete exam preparation.

Linux Foundation CKS (Certified Kubernetes Security Specialist) Certification Exam is a highly sought-after certification for individuals who want to demonstrate their expertise in securing containerized applications using Kubernetes. Kubernetes has become the de facto standard for container orchestration, and as such, it is crucial to have professionals who can secure the platform and the applications running on it.

Linux Foundation CKS Certification is a valuable credential for IT professionals who work with Kubernetes. It demonstrates their expertise in securing Kubernetes clusters and their ability to apply best practices to real-world scenarios. Certified Kubernetes Security Specialist (CKS) certification is recognized by employers around the world and can help professionals advance their careers in the field of cloud-native computing.

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The CKS Certification is vendor-neutral, which means that it is not tied to any specific technology or vendor. This enables IT professionals to demonstrate their competence in Kubernetes security, regardless of the tools or platforms they use. CKS exam covers a broad range of topics, including Kubernetes architecture and components, security best practices, network security, cluster hardening, and monitoring and logging. Successful candidates will be able to identify and mitigate security risks and vulnerabilities in Kubernetes environments.

Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q150-Q155):

NEW QUESTION # 150

Given an existing Pod named nginx-pod running in the namespace test-system, fetch the service-account-name used and put the content in /candidate/KSC00124.txt Create a new Role named dev-test-role in the namespace test-system, which can perform update operations, on resources of type namespaces.

- A. Create a new RoleBinding named dev-test-role-binding, which binds the newly created Role to the Pod's ServiceAccount (found in the Nginx pod running in namespace test-system).

Answer: A

NEW QUESTION # 151

You nave a Kubernetes cluster running a microservices application With various components communicating over a snared 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:

```
# Example configuration for enabling mTLS
spec:
  meshConfig:
    enableAutoMTLS: true
    trustDomain:  # Set the trust domain for your services
  # ... other configuration ...
```

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:

```
apiVersion: v1
kind: ServiceAccount
metadata:
  name:
  namespace:
```

4. Configure Workload Identities: Define workload identities for each microservice. This allows ISti0 to map service accounts to their respective identities. - Istio Workload Identity: Create a Workload Identity that associates service accounts with their corresponding identities:

```
apiVersion: security.istio.io/v1beta1
kind: WorkloadEntry
metadata:
  name:
  namespace:
spec:
  identity:
    trustDomain:
    subject:
      namespace:
      name:
```

5. Configure Service-to-Service Access Control: IJse 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:

```
apiVersion: security.istio.io/v1beta1
kind: AuthorizationPolicy
metadata:
  name:
  namespace:
spec:
  selector:
    matchLabels:
      app:
  rules:
  - from:
    - source:
        namespaces:
        -
        principals:
        - "/" # Allow access from all services within the source namespace
    to:
    - operation:
        methods:
        - GET
        - POST
        pathRegex: /api/v1/.
    when:
    - key: request.headers["Authorization"]
      values: ["Bearer "] # Optional: Add token-based authentication
```

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 # 152
Create a network policy named restrict-np to restrict to pod nginx-test running in namespace testing.
Only allow the following Pods to connect to Pod nginx-test:-
1. pods in the namespace default
2. pods with label version:v1 in any namespace.
Make sure to apply the network policy.

- A. Send us your Feedback on this.

Answer: A

NEW QUESTION # 153
use the Trivy to scan the following images,
1. amazonlinux:1
2. k8s.gcr.io/kube-controller-manager:v1.18.6
Look for images with HIGH or CRITICAL severity vulnerabilities and store the output of the same in /opt/trivy-vulnerable.txt

- A. Send us your suggestion on it.
- B. Send us your suggestion

Answer: A

NEW QUESTION # 154
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:

```
apiVersion: policy/v1beta1
kind: PodSecurityPolicy
metadata:
  name: nginx-psp
spec:
  # ... other PSP settings ...
  hostNetwork: false
  runAsUser:
    rule: "RunAsAny"
  # ... other settings ...
  seLinux:
    rule: "RunAsAny"
  # ... other settings ...
  fsGroup:
    rule: "RunAsAny"
  # ... other settings ...
  supplementalGroups:
    rule: "RunAsAny"
  # ... other settings ...
  volumes:
    # Allow emptyDir
    - name: nginx-data
      new: true
      # ... other settings ...
  hostPorts:
    - port: 80
      protocol: TCP
    - port: 443
      protocol: TCP
```

2. Apply the PSPI - 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:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  replicas: 1
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:latest
        securityContext:
          # ... other securityContext settings ...
          # Add the PSP name to the securityContext
          securityContext:
            podSecurityPolicy: nginx-psp
      # ... other container settings ...
```

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: - Verity 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 # 155

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