

Certification CKS Exam, Answers CKS Real Questions

Linux Foundation Certified Kubernetes Security (CKS) Specialist 28 Real Exam Question and Answers



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One of the key benefits of obtaining the CKS certification is that it demonstrates a deep understanding of Kubernetes security best practices, which is a critical skill for the rapidly growing cloud-native industry. Kubernetes is an open-source container orchestration system that has become the most popular platform for deploying and managing applications in the cloud. However, like any complex system, it comes with its own set of security challenges. Thus, businesses that use Kubernetes-based systems need security specialists who are well-versed in the best practices of securing such environments.

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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Our research and development team not only study what questions will come up in the CKS exam, but also design powerful study tools like exam simulation software. The content of our CKS practice materials is chosen so carefully that all the questions for the exam are contained. And our CKS study materials have three formats which help you to read, test and study anytime, anywhere. This means with our products you can prepare for CKS exam efficiently.

Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q62-Q67):

NEW QUESTION # 62

Explain the concept of Software Bill of Materials (SBOM) in the context of Kubernetes supply chain security. How does an SBOM help in strengthening security practices for applications running in a Kubernetes environment?

Answer:

Explanation:

Solution (Step by Step) :

An SBOM, or Software Bill of Materials, is a detailed inventory of components used in a software product. In the context of Kubernetes, an SBOM can be used to:

Inventory Management The SBOM provides a comprehensive list of all software components, including their versions, licenses, and dependencies.

This allows for better inventory management and understanding of the entire software stack.

Vulnerability Identification By comparing the SBOM with known vulnerability databases, security teams can quickly identify any vulnerable components in the application. This helps in proactively addressing vulnerabilities before they are exploited.

Compliance Auditing The SBOM provides documentation that can be used to demonstrate compliance with various security regulations and industry standards, such as NIST, ISO 27001, or GDPR.

Supply Chain Traceability The SBOM helps track the origin and lineage of software components, enabling better understanding of potential risks associated with third-party software.

Effective Patching The SBOM facilitates the identification and patching of vulnerable components by providing clear information about the affected components and their versions.

NEW QUESTION # 63

Task

Create a NetworkPolicy named pod-access to restrict access to Pod users-service running in namespace dev-team.

Only allow the following Pods to connect to Pod users-service:

Answer:

Explanation:

NEW QUESTION # 64

You have a Kubernetes cluster running a web application deployment named 'web-app' that uses a service account called 'web-app-sa'. The 'web-app-sa' has been granted the necessary RBAC roles and permissions to access specific resources in the cluster. You want to implement a strategy to prevent the 'web-app' deployment from using unauthorized service accounts that might be accidentally created or added to the deployment spec.

Answer:

Explanation:

Solution (Step by Step) :

1. Create a Service Account for the Web Application

- Create a Service Account YAML file named 'web-app-sa.yaml'

2. Create a Role for the Service Account: - Create a Role YAML file named 'web-app-role.yaml' to grant the necessary permissions to the 'web-app-sa':

3. Bind the Role to the Service Account: - Create a RoleBinding YAML file named 'web-app-rolebinding.yaml' to bind the 'web-app-roles' to the 'web-app-sa':

4. Create the Web Application Deployment: - Create a Deployment YAML file named 'web-app-deployment.yaml' that specifies the 'web-app-sa' and any other necessary configuration:

5. Apply the Service Account, Role, RoleBinding, and Deployment: - Apply the YAML files using kubectl apply -f web-app-sa.yaml web-app-role.yaml web-app-rolebinding.yaml web-app-deployment.yaml 6. Test With unauthorized Service Accounts: - Try creating a new Service Account (e.g., 'unauthorized-sa') and adding it to the 'web-app-deployment' YAML file. - Try updating the deployment. This should fail because the unauthorized service account does not have the necessary permissions. - You can also try creating a pod with the unauthorized service account to see that it cannot access resources it doesn't have permission for. By following these steps, you effectively enforce a policy that ensures the 'web-app' deployment only uses the authorized 'web-app-sa' for resource access, mitigating the risks associated with unauthorized service account usage.

NEW QUESTION # 65

You can switch the cluster/configuration context using the following command:

```
[desk@cli] $ kubectl config use-context dev
```

Context:

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

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:

1.2.7 authorization-mode argument is not set to AlwaysAllow FAIL

1.2.8 authorization-mode argument includes Node FAIL

1.2.7 authorization-mode argument includes RBAC FAIL

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

4.2.1 Ensure that the anonymous-auth argument is set to false FAIL

4.2.2 authorization-mode argument is not set to AlwaysAllow FAIL (Use Webhook authn/authz where possible) Fix all of the following violations that were found against etcd:

2.2 Ensure that the client-cert-auth argument is set to true

Answer:

Explanation:

```
worker1 $ vim /var/lib/kubelet/config.yaml
```

anonymous:

enabled: true #Delete this

enabled: false #Replace by this

authorization:

mode: AlwaysAllow #Delete this

mode: Webhook #Replace by this

```
worker1 $ systemctl restart kubelet. # To reload kubelet config
```

ssh to master1

```
master1 $ vim /etc/kubernetes/manifests/kube-apiserver.yaml
```

- -- authorization-mode=Node,RBAC

```
master1 $ vim /etc/kubernetes/manifests/etcd.yaml
```

- --client-cert-auth=true

Explanation

ssh to worker1

```
worker1 $ vim /var/lib/kubelet/config.yaml
```

apiVersion: kubelet.config.k8s.io/v1beta1

authentication:

anonymous:

enabled: true #Delete this

enabled: false #Replace by this

webhook:

cacheTTL: 0s

enabled: true

x509:

clientCAFile: /etc/kubernetes/pki/ca.crt

authorization:

mode: AlwaysAllow #Delete this

mode: Webhook #Replace by this

webhook:

cacheAuthorizedTTL: 0s

cacheUnauthorizedTTL: 0s

cgroupDriver: systemd

clusterDNS:

- 10.96.0.10

clusterDomain: cluster.local

cpuManagerReconcilePeriod: 0s

evictionPressureTransitionPeriod: 0s

fileCheckFrequency: 0s

healthzBindAddress: 127.0.0.1

healthzPort: 10248

httpCheckFrequency: 0s

imageMinimumGCAge: 0s

kind: KubeletConfiguration

logging: {}

nodeStatusReportFrequency: 0s

nodeStatusUpdateFrequency: 0s

resolveConf: /run/systemd/resolve/resolve.conf

rotateCertificates: true

```
runtimeRequestTimeout: 0s
staticPodPath: /etc/kubernetes/manifests
streamingConnectionIdleTimeout: 0s
syncFrequency: 0s
volumeStatsAggPeriod: 0s
worker1 $ systemctl restart kubelet. # To reload kubelet config
ssh to master1
master1 $ vim /etc/kubernetes/manifests/kube-apiserver.yaml
master1 $ vim /etc/kubernetes/manifests/etcd.yaml
```

NEW QUESTION # 66

You are managing a Kubernetes cluster with a deployment named 'database-deployment' running 3 replicas of a PostgreSQL database container. You need to implement a security policy that restricts the database pods from accessing the internet, allowing them to only communicate with each other and with specific external services. The allowed external services include a dedicated monitoring service at 'monitoring-example-com:8080' and a logging service at 'logging-example-com:514'. Additionally, you want to enforce this policy using NetworkPolicy.

Answer:

Explanation:

Solution (Step by Step) :

1. Create a NetworkPolicy for database pods:

- Create a YAML file named "database-networkpolicy.yaml" with the following contents:

NEW QUESTION # 67

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