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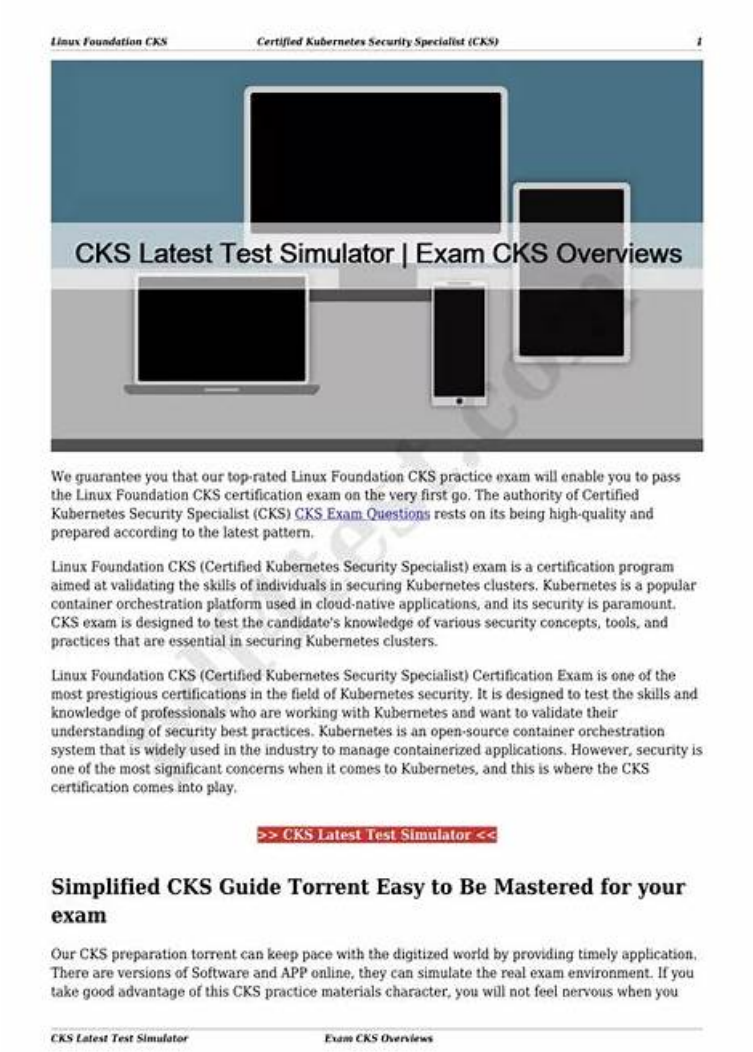

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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q10-Q15):

NEW QUESTION # 10
Your Kubernetes cluster has several applications running in different namespaces. You want to enforce a policy where only pods within the 'monitoring' namespace can communicate witn pods in the sapi-server' namespace. How can you achieve this using NetworkPolicies?

Answer:

Explanation:
Solution (Step by Step) :
1. Create Network Policy: Create a NetworkPolicy YAML file named 'monitoring-access.yaml' to define the allowed communication:
- This policy allows ingress traffic to the 'api-server' namespace only from pods Within the 'monitoring' namespace. 2. Apply Network Policy: use 'kubectr to apply the NetworkPolicy: bash kubectl apply -f monitoring-access-yaml 3. Verify Network Policy: Check that the NetworkPolicy is applied: bash kubectl get networkpolicies -n api-server 4. Test Access: Try communicating from a pod in the 'monitoring' namespace to a pod in the 'api-server' namespace. This communication should be allowed. Try communicating from a pod in a different namespace to a pod in the 'api-server' namespace. This communication should be blocked. This NetworkPolicy restricts ingress traffic to the 'api-server' namespace. It only permits connections from pods within the 'monitoring' namespace, effectively enforcing a controlled access policy between these namespaces.

NEW QUESTION # 11
SIMULATION
Create a new NetworkPolicy named deny-all in the namespace testing which denies all traffic of type ingress and egress traffic

Answer:

Explanation:
You can create a "default" isolation policy for a namespace by creating a NetworkPolicy that selects all pods but does not allow any ingress traffic to those pods.
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: default-deny-ingress
spec:
podSelector: {}
policyTypes:
- Ingress
You can create a "default" egress isolation policy for a namespace by creating a NetworkPolicy that selects all pods but does not allow any egress traffic from those pods.
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: allow-all-egress
spec:
podSelector: {}
egress:
- {}
policyTypes:
- Egress
Default deny all ingress and all egress traffic

You can create a "default" policy for a namespace which prevents all ingress AND egress traffic by creating the following NetworkPolicy in that namespace.

```
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: default-deny-all
spec:
podSelector: {}
policyTypes:
- Ingress
- Egress
```

This ensures that even pods that aren't selected by any other NetworkPolicy will not be allowed ingress or egress traffic.

NEW QUESTION # 12

You are working on a Kubernetes cluster that hosts a critical microservices application. You have identified that the application is vulnerable to a known attack vector through a specific service called "payment-service." You need to quickly implement a security measure to mitigate this attack vector while minimizing the impact on other services.

How can you use a network policy to isolate the "payment-service" from the rest of the cluster and prevent the attack without disrupting the normal functioning of other microservices?

Answer:

Explanation:

Solution (Step by Step) :

1. Identify the specific traffic flows:
- Analyze the network traffic of the "payment-service" to understand the communication patterns it uses.
- Determine which services are essential for the "payment-service" to operate correctly.
- Identify the specific ports and protocols used by the "payment-service" to communicate with those services.
2. Define the network policy:
- Create a network policy specifically for the "payment-service."
- Allow only the necessary traffic flows to and from the "payment-service."
- Block any other traffic, including potential attack vectors.
3. Deploy and test the policy:
- Apply the network policy to the cluster.
- Monitor the "payment-service" closely to ensure it continues to operate correctly.
- Test the policy with simulated attacks to confirm its effectiveness.

Example Network Policy:

This policy allows the "payment-service" to communicate only With "order-service" and "database" services while blocking all other traffic. This allows the service to continue operating normally while isolating it from the rest of the cluster and mitigating the potential attack vector.

NEW QUESTION # 13

You are responsible for securing a Kubernetes cluster that hosts sensitive dat

a. You need to ensure that all communication between pods within the cluster is encrypted. Implement a solution that enforces mutual TLS authentication between pods.

Answer:

Explanation:

Solution (Step by Step):

1. Generate certificates and keys for each pod. You can use a tool like 'openssr to generate self-signed certificates or use a certificate authority (CA) to issue certificates- Each pod will need its own private key and a certificate signed by the CA.
2. Create a Kubernetes Secret to store the certificates and keys. This Secret should be mounted as a volume in each pod.
3. Configure the pods to use the certificates for mutual TLS. This typically involves setting environment variables or command-line arguments to specify the location of the certificate and key files.
4. Deploy a service mesh like Istio or Linkerd. These tools can automate the process of certificate management and mTLS enforcement They provide features like automatic certificate rotation, centralized control Plane for managing mTLS configurations,

and traffic encryption. Important Considerations: Certificate Management: Implement a secure and automated process for certificate issuance and renewal. Resource Overhead: mTLS can introduce some performance overhead, so monitor your application performance after implementation. Troubleshooting: Have a plan for troubleshooting connectivity issues related to mTLS.

NEW QUESTION # 14
You must complete this task on the following cluster/nodes:
Cluster: apparmor
Master node: master
Worker node: worker1
You can switch the cluster/configuration context using the following command:
[desk@cli] $ kubectl config use-context apparmor
Given: AppArmor is enabled on the worker1 node.
Task:
On the worker1 node,
1. Enforce the prepared AppArmor profile located at: /etc/apparmor.d/nginx
2. Edit the prepared manifest file located at /home/cert_masters/nginx.yaml to apply the apparmor profile
3. Create the Pod using this manifest

Answer:

Explanation:
[desk@cli] $ ssh worker1
[worker1@cli] $apparmor_parser -q /etc/apparmor.d/nginx
[worker1@cli] $aa-status | grep nginx
nginx-profile-1
[worker1@cli] $ logout
[desk@cli] $vim nginx-deploy.yaml
Add these lines under metadata:
annotations: # Add this line
container.apparmor.security.beta.kubernetes.io/<container-name>: localhost/nginx-profile-1
[desk@cli] $kubectl apply -f nginx-deploy.yaml
Explanation
[desk@cli] $ ssh worker1
[worker1@cli] $apparmor_parser -q /etc/apparmor.d/nginx
[worker1@cli] $aa-status | grep nginx
nginx-profile-1
[worker1@cli] $ logout
[desk@cli] $vim nginx-deploy.yaml
[desk@cli] $kubectl apply -f nginx-deploy.yaml pod/nginx-deploy created Reference:
https://kubernetes.io/docs/tutorials/clusters/apparmor/ pod/nginx-deploy created
[desk@cli] $kubectl apply -f nginx-deploy.yaml pod/nginx-deploy created Reference:
https://kubernetes.io/docs/tutorials/clusters/apparmor/

NEW QUESTION # 15
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