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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q27-Q32):

NEW QUESTION # 27
You are responsible for hardening a Kubernetes cluster hosting sensitive financial data. One of the key security concerns is preventing data exfiltration. How can you use Kubernetes Network Policy to enforce network isolation and prevent unauthorized data access?

Answer:

Explanation:
Solution (Step by Step) :
1. Define the network policy rules:
- Identify tne pods that contain sensitive data and the services they interact with. Use labels to identify these pods and services.
- Create network policies that restrict communication between these pods and the outside world. These policies should only allow traffic from authorized sources, such as internal services or authorized user applications.
2. Create the network policy:
- Define the policy using the 'kubectl apply' command. The policy should specify the target pods, allowed ingress and egress traffic, and the allowed ports and protocols.
3. Deploy the network policy:
- Apply the network policy to the cluster. The policy will be enforced by the Kubemetes network plugin.
Example network policy:
This policy restricts the communication of pods with the label Sapp: financial-data' to only internal services with the label Sapp: internal-service' and to specific IP addresses in the range ' 10.0.0.0/16'. This helps prevent data exfiltration by restricting access to external services or unauthorized clients.

NEW QUESTION # 28
SIMULATION
Context
This cluster uses containerd as CRI runtime.
Containerd's default runtime handler is runc. Containerd has been prepared to support an additional runtime handler, runsc (gVisor).
Task
Create a RuntimeClass named sandboxed using the prepared runtime handler named runsc.
Update all Pods in the namespace server to run on gVisor.

Answer:

Explanation:
See the Explanation below
Explanation:

NEW QUESTION # 29
You are running a critical web application on Kubernetes. You have implemented Pod Security Policies (PSPs) to enforce security restrictions on your pods. You want to configure PSPs to enforce the following security requirements:
Only allow specific image registries: Ensure pods can only pull images from authorized registries like 'docker.ios and 'gcr.ios. Restrict container privileges: Enforce the principle of least privilege by ensuring that only a minimum number of containers have root privileges. Limit resource usage: Prevent resource starvation by restricting the CPU and memory requests of pods.
Provide the detailed configuration for your PSP to enforce these security requirements.

Answer:

Explanation:
Solution (Step by Step) :
1. create a PSP YAML file:
□
2. Apply the PSP: bash kubectl apply -f restricted-psp.yaml 3. Create a Deployment with a securityContext
□
4. Apply the Deployment: bash kubectl apply -f myapp-deploymentyaml Note: This configuration assumes that the 'restricted-psps is applied to your entire namespace. You can use a more granular approach by applying the PSP to specific pods or deployments.

NEW QUESTION # 30
Your Kubernetes cluster runs a Deployment named 'database' which exposes a database service. You need to implement a NetworkPolicy that allows only pods belonging to a specific namespace to access the database service.

Answer:

Explanation:
Solution (Step by Step) :
1. Create a NetworkPolicy:
- Define a NetworkPolicy resource with a 'podSelector' that matches the 'database' Deployment.
- Create an 'ingress' rule that allows traffic from pods in the specified namespace.
- Use the 'from' field to specify the namespace and set the 'namespacesaector' to the desired namespace.
- Ensure that the port used by the database service is included in the 'ports' field.
□
2. Apply the NetworkPolicy: - Apply the YAML file using 'kubectl apply -f database-access-policy.yaml 3. Verify the NetworkPoIicy: - Use 'kubectl get networkpolicies' to list the available network policies. - Use 'kubectl describe networkpolicy database-access-policy' to view the details ot the applied policy. 4. Test the NetworkPolicy: - Deploy a pod in the 'allowed-namespace' and attempt to connect to the database service. Verify that the connection is successful. - Deploy a pod in a different namespace and attempt to connect to the database service. Verify that the connection is denied.

NEW QUESTION # 31
SIMULATION
You can switch the cluster/configuration context using the following command:
[desk@cli] $ kubectl config use-context stage
Context:
A PodSecurityPolicy shall prevent the creation of privileged Pods in a specific namespace.
Task:
1. Create a new PodSecurityPolcy named deny-policy, which prevents the creation of privileged Pods.
2. Create a new ClusterRole name deny-access-role, which uses the newly created PodSecurityPolicy deny-policy.
3. Create a new ServiceAccount named psd-denial-sa in the existing namespace development.
Finally, create a new ClusterRoleBindind named restrict-access-bind, which binds the newly created ClusterRole deny-access-role to the newly created ServiceAccount psp-denial-sa

Answer:

Explanation:
See the Explanation belowExplanation:
Create psp to disallow privileged container

```
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRole
metadata:
name: deny-access-role
rules:
- apiGroups: ['policy']
resources: ['podsecuritypolicies']
verbs: ['use']
resourceNames:
- "deny-policy"
k create sa psp-denial-sa -n development
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
```

```
metadata:
name: restrict-access-bing
roleRef:
kind: ClusterRole
name: deny-access-role
apiGroup: rbac.authorization.k8s.io
subjects:
- kind: ServiceAccount
name: psp-denial-sa
namespace: development
```

Explanation:

```
master1 $ vim psp.yaml
apiVersion: policy/v1beta1
kind: PodSecurityPolicy
metadata:
name: deny-policy
spec:
privileged: false # Don't allow privileged pods!
seLinux:
rule: RunAsAny
supplementalGroups:
rule: RunAsAny
runAsUser:
rule: RunAsAny
fsGroup:
rule: RunAsAny
volumes:
- '*'
master1 $ vim cr1.yaml
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRole
metadata:
name: deny-access-role
rules:
- apiGroups: ['policy']
resources: ['podsecuritypolicies']
verbs: ['use']
resourceNames:
- "deny-policy"
master1 $ k create sa psp-denial-sa -n development
master1 $ vim cb1.yaml
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
metadata:
name: restrict-access-bing
roleRef:
kind: ClusterRole
name: deny-access-role
apiGroup: rbac.authorization.k8s.io
subjects:
# Authorize specific service accounts:
- kind: ServiceAccount
name: psp-denial-sa
namespace: development
master1 $ k apply -f psp.yaml
master1 $ k apply -f cr1.yaml
master1 $ k apply -f cb1.yaml
```

NEW QUESTION # 32

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