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## Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q37-Q42):

### NEW QUESTION # 37

#### SIMULATION

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 # 38

You're designing a security policy for your Kubernetes cluster to restrict container image sources. You want to allow only images from your private registry and a few trusted public registries. How would you implement this policy using Admission Webhooks and what kind of validation logic would you implement in the webhook?

**Answer:**

Explanation:

Solution (Step by Step) :

1. Create Admission Webhook:

- Define a Kubernetes Admission Webhook that will intercept requests to create or modify pods.

- You'll need to create a webhook configuration and a service that will handle the validation logic-

- Example webhook configuration:

2. Implement Validation Logic (Service): - Create a service that will handle the webhook requests. This service should contain your validation logic. - The validation logic should check the container images used in the pod definitions. - Sample validation logic (Python using Flask, but you could use any language/framework): `python from flask import Flask, request, jsonify import json`

3. Deploy Service and Webhook: - Deploy your service and the webhook configuration. - Ensure that your service is accessible by the Kubernetes API server. 4. Test: - Create or update a pod with a container image from an allowed source. The webhook should allow it. - Create a pod with a container image from a disallowed source. The webhook should deny it.

### NEW QUESTION # 39

Your Kubernetes cluster is running a set of microservices that are deployed in separate namespaces. You want to ensure that a specific microservice in the 'web-app' namespace can only communicate with services in the 'api-gateway' namespace. How can you implement this using NetworkPolicies?

**Answer:**

Explanation:

Solution (Step by Step) :

1. Identify Targeted Services: Determine the specific microservice in the 'web-app' namespace that needs restricted access. Let's assume it's named 'web-service'

2 Create Network Policy: Create a NetworkPolicy YAML file named 'web-service-access-yaml' to define the allowed communication:

- This policy allows the 'web-services pods in the 'web-app' namespace to communicate With services in the api-gateways namespace. 3. Apply Network Policy: Apply the NetworkPolicy using ' kubectl' `bash kubectl apply -f web-service-access-yaml` 4.

Verify Network Policy: Verify that the NetworkPolicy is applied: `bash kubectl get networkpolicies -n web-app` 5. Test Access: Test communication from the 'web-service pods in the 'web-apps namespace to services in the 'api-gateway' namespace. This communication should be allowed. Try communicating from the 'web-service' pods to services in other namespaces. This communication should be blocked. This NetworkPolicy restricts the 'web-services pods to only communicate with services in the 'api-gateway' namespace. This effectively enforces a specific communication pattern between microservices deployed in different

namespaces.

#### NEW QUESTION # 40

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 # 41

##### SIMULATION

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

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

Context:

A Role bound to a Pod's ServiceAccount grants overly permissive permissions. Complete the following tasks to reduce the set of permissions.

Task:

Given an existing Pod named web-pod running in the namespace database.

1. Edit the existing Role bound to the Pod's ServiceAccount test-sa to only allow performing get operations, only on resources of type Pods.
2. Create a new Role named test-role-2 in the namespace database, which only allows performing update operations, only on resources of type statuefulsets.
3. Create a new RoleBinding named test-role-2-bind binding the newly created Role to the Pod's ServiceAccount.

Note: Don't delete the existing RoleBinding.

#### Answer:

Explanation:

See the Explanation below

Explanation:

□

#### NEW QUESTION # 42

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