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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q14-Q19):

NEW QUESTION # 14
SIMULATION

You **must** complete this task on the following cluster/nodes:



Cluster	Master node	Worker node
KSCH00301	ksch00301-master	ksch00301-worker1

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

```
[candidate@cli] $ | kubectl config use-context KSCH00301
```

Context

Your organization's security policy includes:

ServiceAccounts must not automount API credentials

ServiceAccount names must end in "-sa"

The Pod specified in the manifest file `/home/candidate/KSCH00301/pod-manifest.yaml` fails to schedule because of an incorrectly specified ServiceAccount.

Complete the following tasks:

Task

1. Create a new ServiceAccount named `frontend-sa` in the existing namespace `qa`. Ensure the ServiceAccount does not automount

API credentials.

2. Using the manifest file at /home/candidate/KSCH00301 /pod-manifest.yaml, create the Pod.

3. Finally, clean up any unused ServiceAccounts in namespace qa.

Answer:

Explanation:

See the Explanation below

Explanation:

```
Switched to context "KSCH00301".
candidate@cli:~$ kubectl get sa -n qa
NAME          SECRETS  AGE
default       1        5h46m
podrunner     1        5h46m
candidate@cli:~$ kubectl get deployment -n qa
No resources found in qa namespace.
candidate@cli:~$ kubectl get pod -n qa
No resources found in qa namespace.
candidate@cli:~$ kubectl create sa frontend-sa -n qa
serviceaccount/frontend-sa created
candidate@cli:~$ kubectl get sa -n qa
NAME          SECRETS  AGE
default       1        5h47m
frontend-sa   1        4s
podrunner     1        5h47m
candidate@cli:~$ cat /home/candidate/KSCH00301/pod-manifest.yaml
apiVersion: v1
kind: Pod
metadata:
  name: "frontend"
  namespace: "qa"
spec:
  serviceAccountName: "frontend-sa"
  containers:
  - name: "frontend"
    image: nginx
candidate@cli:~$ vim /home/candidate/KSCH00301/pod-manifest.yaml
apiVersion: v1
kind: Pod
metadata:
  name: "frontend"
  namespace: "qa"
spec:
  serviceAccountName: "frontend-sa"
  automountServiceAccountToken: false
  containers:
  - name: "frontend"
    image: nginx
```

```

candidate@cli:~$ vim /home/candidate/KSCH00301/pod-manifest.yaml
candidate@cli:~$ cat /home/candidate/KSCH00301/pod-manifest.yaml
apiVersion: v1
kind: Pod
metadata:
  name: "frontend"
  namespace: "qa"
spec:
  serviceAccountName: "frontend-sa"
  automountServiceAccountToken: false
  containers:
    - name: "frontend"
      image: nginx
candidate@cli:~$ kubectl create -f /home/candidate/KSCH00301/pod-manifest.yaml
pod/frontend created
candidate@cli:~$ kubectl get pods -n qa
NAME          READY   STATUS    RESTARTS   AGE
frontend      1/1     Running   0           6s
candidate@cli:~$ kubectl get sa -n qa
NAME          SECRETS   AGE
default       1         5h49m
frontend-sa   1         105s
podrunner     1         5h49m
candidate@cli:~$ kubectl delete sa/podrunner -n qa
serviceaccount "podrunner" deleted
candidate@cli:~$ █

```

NEW QUESTION # 15

You are running a microservices application on Kubernetes where each service is deployed as a separate Deployment. You want to implement multi-tenancy to ensure that different tenants have their own isolated environments. How would you implement this multi-tenancy strategy, and what are some of the potential challenges?

Answer:

Explanation:

Solution (Step by Step) :

1. Namespaces: Use Kubernetes namespaces to isolate tenants. Each tenant will have their own namespace, which will contain their deployments, services, and other resources.

- Example: You could create namespaces for "tenant-a", "tenant-b", "tenant-c", etc.

2. RBAC (Role-Based Access Control): Implement RBAC to control access to resources within each namespace.

- Example: Define roles for each tenant, granting them access to the resources they need in their namespace. For instance, a "tenant-a-admin" role could have full control over resources in "tenant-a" namespace.

3. Network Policies: Define network policies to control communication between pods in different namespaces.

- Example: Create network policies to allow communication between services within the same tenant's namespace but restrict communication between services in different tenant namespaces.

4. Service Accounts: Use separate service accounts for each tenant to isolate their access to resources.

5. Persistent Volumes: Create separate persistent volumes for each tenant to ensure that their data is isolated.

6. ConfigMaps and Secrets: Store tenant-specific configuration data in separate ConfigMaps and Secrets.

7. Resource Quotas: Set resource quotas for each tenant to limit the resources they can consume.

8. Challenges of Multi-Tenancy:

- Complexity: Implementing multi-tenancy can add complexity to your Kubernetes configuration and deployment process.

- Performance: Isolating tenants can potentially impact performance, as network communication may be restricted.

- Resource Allocation: You need to carefully manage resource allocation to ensure that each tenant gets the resources they need.

- Security: You need to carefully secure your multi-tenant environment to prevent one tenant from compromising another.

NEW QUESTION # 16

Before Making any changes build the Dockerfile with tag base:v1

Now Analyze and edit the given Dockerfile(based on ubuntu 16:04)

Fixing two instructions present in the file, Check from Security Aspect and Reduce Size point of view.

Dockerfile:

```
FROM ubuntu:latest
RUN apt-get update -y
RUN apt install nginx -y
COPY entrypoint.sh /
RUN useradd ubuntu
ENTRYPOINT ["/entrypoint.sh"]
USER ubuntu
entrypoint.sh
#!/bin/bash
echo "Hello from CKS"
```

After fixing the Dockerfile, build the docker-image with the tag base:v2

- **A. To Verify: Check the size of the image before and after the build.**

Answer: A

NEW QUESTION # 17

Cluster: scanner

Master node: controlplane

Worker node: worker1

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

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

Given:

You may use Trivy's documentation.

Task:

Use the Trivy open-source container scanner to detect images with severe vulnerabilities used by Pods in the namespace nato.

Look for images with High or Critical severity vulnerabilities and delete the Pods that use those images.

Trivy is pre-installed on the cluster's master node. Use cluster's master node to use Trivy.

Answer:

Explanation:

```
[controlplane@cli] $ k get pods -n nato -o yaml | grep "image: "
```

```
[controlplane@cli] $ trivy image <image-name>
```

```
[controlplane@cli] $ k delete pod <vulnerable-pod> -n nato
```

```
[desk@cli] $ ssh controlnode
```

```
[controlplane@cli] $ k get pods -n nato
```

```
NAME READY STATUS RESTARTS AGE
```

```
alohmora 1/1 Running 0 3m7s
```

```
c3d3 1/1 Running 0 2m54s
```

```
neon-pod 1/1 Running 0 2m11s
```

```
thor 1/1 Running 0 58s
```

```
[controlplane@cli] $ k get pods -n nato -o yaml | grep "image: "
```

```

      f:image: {}
- image: alpine:3.12
  image: alpine:3.12
      f:image: {}
- image: alpine:3.12
  image: alpine:3.12
      f:image: {}
- image: alpine:3.7
  image: alpine:3.7
      f:image: {}
- image: nginx
  image: nginx:latest

```

[controlplane@cli] \$ k delete pod thor -n nato

[controlplane@cli] \$ k delete pod neon-pod -n nato Reference: <https://github.com/aquasecurity/trivy>

[controlplane@cli] \$ k delete pod neon-pod -n nato Reference: <https://github.com/aquasecurity/trivy>

NEW QUESTION # 18

Cluster: qa-cluster

Master node: master Worker node: worker1

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

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

Task:

Create a NetworkPolicy named restricted-policy to restrict access to Pod product running in namespace dev.

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

1. Pods in the namespace qa
2. Pods with label environment: stage, in any namespace

Answer:

Explanation:

```
$ k get ns qa --show-labels
```

```
NAME STATUS AGE LABELS
```

```
qa Active 47m env=stage
```

```
$ k get pods -n dev --show-labels
```

```
NAME READY STATUS RESTARTS AGE LABELS
```

```
product 1/1 Running 0 3s env=dev-team
```

```
apiVersion: networking.k8s.io/v1
```

```
kind: NetworkPolicy
```

```
metadata:
```

```
name: restricted-policy
```

```
namespace: dev
```

```
spec:
```

```
podSelector:
```

```
matchLabels:
```

```
env: dev-team
```

```
policyTypes:
```

```
- Ingress
```

```
ingress:
```

```
- from:
```

```
- namespaceSelector:
```

```
matchLabels:
```

```
env: stage
```

```
- podSelector:
```

```
matchLabels:
```

```
env: stage
```

```

[desk@cli] $ k get ns qa --show-labels
NAME STATUS AGE LABELS
qa Active 47m env=stage
[desk@cli] $ k get pods -n dev --show-labels
NAME READY STATUS RESTARTS AGE LABELS
product 1/1 Running 0 3s env=dev-team
[desk@cli] $ vim netpol2.yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: restricted-policy
  namespace: dev
spec:
  podSelector:
    matchLabels:
      env: dev-team
  policyTypes:
  - Ingress
  ingress:
  - from:
    - namespaceSelector:
        matchLabels:
          env: stage
      - podSelector:
          matchLabels:
            env: stage
[desk@cli] $ k apply -f netpol2.yaml Reference: https://kubernetes.io/docs/concepts/services-networking/network-policies/
[desk@cli] $ k apply -f netpol2.yaml Reference: https://kubernetes.io/docs/concepts/services-networking/network-policies/

```

NEW QUESTION # 19

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