Quiz 2026 Linux Foundation CKS: Trustable Official Certified Kubernetes Security Specialist (CKS) Study Guide

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The Certified Kubernetes Security Specialist (CKS) is the latest professional certification offered by the Linux Foundation. It is designed for Kubernetes security professionals who have extensive knowledge and experience in securing containerized applications in the Kubernetes environment. The CKS Certification validates the skills needed to secure Kubernetes clusters and containerized applications, including working with Kubernetes APIs, securing Kubernetes resources, and using Kubernetes authentication and authorization systems.

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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.

Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q22-Q27):

NEW QUESTION # 22
You have a Kubernetes cluster running a critical application that uses a sensitive configuration file mounted as a volume. You want to ensure that only authorized users can access this configuration file. How would you restrict access to this configuration file using Kubernetes R8AC, including the necessary roles, bindings, and service accounts?

Answer:

Explanation:
Solution (Step by Step) :
1. Create a Service Account
- Create a service account for the application that needs access to the configuration file.
- Example:

```
apiVersion: v1
kind: ServiceAccount
metadata:
  name: sensitive-app-sa
```

2. Create a Role: - Create a role that grants read-only access to the configuration file. - Example:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: sensitive-app-role
rules:
- apiGroups: [""]
  resources: ["configmaps"]
  verbs: ["get"]
```

3. Bind the Role to the Service Account: - Bind the role to the service account to grant access. - Example:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: sensitive-app-binding
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: sensitive-app-role
subjects:
- kind: ServiceAccount
  name: sensitive-app-sa
  namespace: default
```

4. Update the Deployment: - Update the deployment YAML to use the service account and specify the volume mount. - Example:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: sensitive-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: sensitive-app
  template:
    metadata:
      labels:
        app: sensitive-app
    spec:
      serviceAccountName: sensitive-app-sa
      containers:
      - name: sensitive-app
        image: your-image:latest
        volumeMounts:
        - name: sensitive-config
          mountPath: /etc/config
      volumes:
      - name: sensitive-config
        configMap:
          name: sensitive-config
```

5. Apply the Changes: - Apply the service account, role, role binding, and updated deployment using ' kubectl apply -f' commands.

NEW QUESTION # 23
You have a Kubernetes cluster with a network policy that allows access to specific ports on pods within a namespace. However, you need to restrict access to specific users based on their identity. Describe how you can implement identity-based access control

using network policies in Kubernetes.

Answer:

Explanation:
Solution (Step by Step) :
1. Configure Network Policy with Ingress Rules:
- Define a network policy tnat allows incoming traffic to specific pons on pods within the namespace.
- This policy should include an 'ingress' rule specifying the allowed ports and protocols.
- For example:

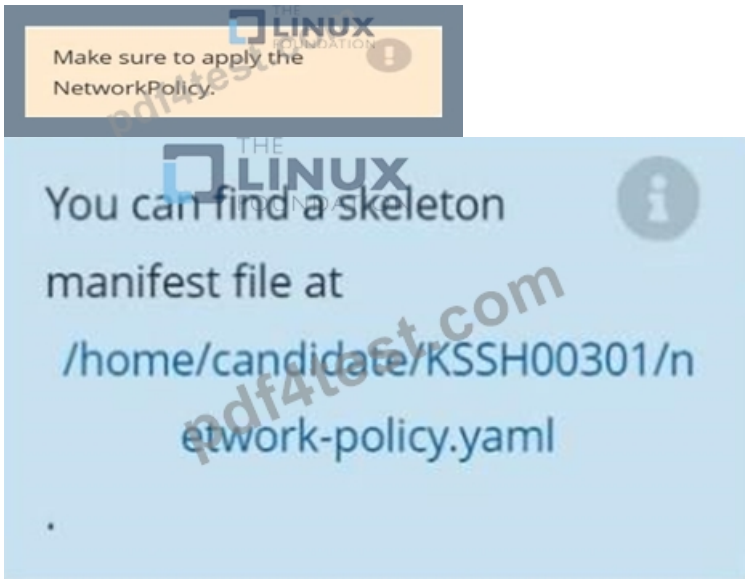
```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: allow-access-to-ports
  namespace: default
spec:
  podSelector: {}
  ingress:
  - from:
    - podSelector: {}
  ports:
  - protocol: TCP
    port: 80
  - protocol: TCP
    port: 443
```

2. Enable Identity-Based Authentication: - Use a Kubernetes authentication plugin to enable identity-based authentication for users connecting to the cluster - This Plugin can be configured to authenticate users using external identity providers like OpenID Connect (OIDC) or SAML. 3. Configure Network Policy with Peer Identity Rules: - Extend the network policy to include rules that specify the required user identity for incoming traffic. - Use the 'peer field within the ' ingress' rule to define the identity requirements. - For example:

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: allow-access-to-ports-with-identity
  namespace: default
spec:
  podSelector: {}
  ingress:
  - from:
    - podSelector: {}
      peer:
        # Require the "developer" group for access
        group: developer
  ports:
  - protocol: TCP
    port: 80
  - protocol: TCP
    port: 443
```

4. Associate Users With Groups: - Associate the authenticated users with the appropriate groups defined in the network policy. - This can be done by configuring your authentication Plugin to map user attributes to Kubernetes groups. 5. Test the Configuration: - Test the network policy by attempting to access the pods from different users with varying identities. - Verify that only users belonging to the "developer' group can successfully connect to the specified ports. 6. Security Considerations: - Use strong authentication mechanisms for user logins. - Implement a robust identity provider to manage user identities and groups. - Ensure that the network policy rules are carefully defined to minimize the attack surface and prevent unintended access.

NEW QUESTION # 24
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:

```
candidate@cli:~$ kubectl config use-context KSSH00301
Switched to context "KSSH00301".
candidate@cli:~$
candidate@cli:~$
candidate@cli:~$ kubectl get ns dev-team --show-labels
NAME       STATUS   AGE     LABELS
dev-team   Active   6h39m   environment=dev,kubernetes.io/metadata.name=dev-team
candidate@cli:~$ kubectl get pods -n dev-team --show-labels
NAME            READY   STATUS    RESTARTS   AGE     LABELS
users-service   1/1     Running   0          6h40m   environment=dev
candidate@cli:~$ ls
KSCH00301  KSMV00102  KSSC00301  KSSH00401     test-secret-pod.yaml
KSCS00101  KSMV00301  KSSH00301  password.txt  username.txt
candidate@cli:~$ vim np.yaml
```

```
candidate@cli:~$ vim np.yaml
candidate@cli:~$ cat np.yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: pod-access
  namespace: dev-team
spec:
  podSelector:
    matchLabels:
      environment: dev
  policyTypes:
    - Ingress
  ingress:
    - from:
        - namespaceSelector:
            matchLabels:
              environment: dev
        - podSelector:
            matchLabels:
              environment: testing
candidate@cli:~$
candidate@cli:~$
candidate@cli:~$ kubectl create -f np.yaml -n dev-team
networkpolicy.networking.k8s.io/pod-access created
candidate@cli:~$ kubectl describe netpol -n dev-team
Name:         pod-access
Namespace:    dev-team
Created on:   2022-05-20 15:35:33 +0000 UTC
Labels:       <none>
Annotations:  <none>
Spec:
  PodSelector:     environment=dev
  Allowing ingress traffic:
    To Port: <any> (traffic allowed to all ports)
    From:
      NamespaceSelector: environment=dev
    From:
      PodSelector: environment=testing
  Not affecting egress traffic
  Policy Types: Ingress
candidate@cli:~$ cat KSSH00301/network-policy.yaml
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: ""
  namespace: ""
spec:
  podSelector: {}
  policyTypes:
    - Ingress
  ingress:
    - from: []
    - from: []
candidate@cli:~$ cp np.yaml KSSH00301/network-policy.yaml
candidate@cli:~$ cat KSSH00301/network-policy.yaml
```

```
candidate@cli:~$ cat KSSH00301/network-policy.yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: pod-access
  namespace: dev-team
spec:
  podSelector:
    matchLabels:
      environment: dev
  policyTypes:
    - Ingress
  ingress:
    - from:
        - namespaceSelector:
            matchLabels:
              environment: dev
        - podSelector:
            matchLabels:
              environment: testing
candidate@cl~$
```


NEW QUESTION # 25

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-yamr to define the allowed communication:

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: web-service-access
  namespace: web-app
spec:
  podSelector:
    matchLabels:
      app: web-service
  ingress:
  - from:
    - namespaceSelector:
        matchLabels:
          namespace: api-gateway
```

- This policy allows the 'web-services pods in the 'web-app' namespace to communicate With services in the sapi-gateways namespace. 3. Apply Network Policy: Apply the NetworkPolicy using ' kubectr' 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 # 26
Create a RuntimeClass named untrusted using the prepared runtime handler named runsc.
Create a Pods of image alpine:3.13.2 in the Namespace default to run on the gVisor runtime class.

Answer:

Explanation:

```
[    0.000000] Starting gVisor...
[    0.183366] Creating cloned children...
[    0.290397] Moving files to filing cabinet...
[    0.392925] Letting the watchdogs out...
[    0.452958] Digging up roots...
[    0.937597] Gathering forks...
[    1.095681] Daemonizing children...
[    1.306448] Rewriting operating system in Javascript...
[    1.514936] Reading process obituaries...
[    1.589   ] Waiting for children...
[    1.892   ] Segmenting fault lines...
[    1.974   ] Ready!
```

NEW QUESTION # 27
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