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>> CKS Exam Vce <<

## Professional CKS Exam Vce & Trusted CKS Study Guide Pdf & New Exam CKS Question

If you are applying for the CKS certification exam, it is great to show your dedication to it. You cannot take it for granted because the Certified Kubernetes Security Specialist (CKS) (CKS) certification test is tough and you have to pay a good sum for appearing in it. You will lose money and time by studying with CKS Exam Preparation material that is not updated. So, to avoid your loss and failure in the CKS exam, you must prepare with actual Linux Foundation CKS questions from PracticeVCE.

## Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q54-Q59):

### NEW QUESTION # 54

You are running a Kubernetes cluster with a deployment named "my-app" that uses a container image from a public registry. The container image has a vulnerability in a library it uses. You want to apply a security patch to the container image without rebuilding it. How can you do this using container patching tools and update the deployment?

### Answer:

Explanation:

Solution (Step by Step) :

1. Use a Container Patching Tool:

- Employ a container patching tool like 'kpatch' or 'image-patcher' that can apply security patches to container images Without rebuilding them. These tools allow you to modify the container image's filesystem and update libraries directly.

2. Identify the Vulnerable Library:

- Use a vulnerability scanner like Trivy to identify the specific vulnerable library within the container image.

3. Apply the Patch:

- Use the container patching tool to apply the security patch to the vulnerable library within the container image. This involves downloading the patch, modifying the container image's filesystem, and updating the relevant library files.
- 4. Create a Patched Image:
  - The container patching tool will typically generate a new, patched container image. This patched image will contain the updated library with the security fix applied.
- 5. Push the Patched Image to a Registry:
  - Push the patched image to your private container registry for use in deployments.
- 6. Update the Deployment
  - Update the "my-app" deployment configuration to use the newly created patched image from your private registry.
- 7. Validate the Patch:
  - After updating the deployment, verify that the patch has been successfully applied by running a vulnerability scan on the running container.

**NEW QUESTION # 55**

Using the runtime detection tool Falco, Analyse the container behavior for at least 30 seconds, using filters that detect newly spawning and executing processes

- **A. store the incident file `art /opt/falco-incident.txt`, containing the detected incidents. one per line, in the format**

**Answer: A**

Explanation:

[timestamp],[uid],[user-name],[processName]

**NEW QUESTION # 56**

SIMULATION

Context

A container image scanner is set up on the cluster, but it's not yet fully integrated into the cluster's configuration. When complete, the container image scanner shall scan for and reject the use of vulnerable images.

Task

Given an incomplete configuration in directory `/etc/kubernetes/epconfig` and a functional container image scanner with HTTPS endpoint `https://wakanda.local:8081 /image_policy` :

1. Enable the necessary plugins to create an image policy
2. Validate the control configuration and change it to an implicit deny
3. Edit the configuration to point to the provided HTTPS endpoint correctly Finally, test if the configuration is working by trying to deploy the vulnerable resource `/root/KSSC00202/vulnerable-resource.yml`.

**Answer:**

Explanation:

See the Explanation below

Explanation:

**NEW QUESTION # 57**

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 PodSecurityPolicy 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:

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 Reference:
https://kubernetes.io/docs/concepts/policy/pod-security-policy/
```

## NEW QUESTION # 58

### SIMULATION

Documentation Upgrading kubeadm clusters

You must connect to the correct host . Failure to do so may result in a zero score.

```
[candidate@base] $ ssh cks000034
```

Context

The kubeadm provisioned cluster was recently upgraded, leaving one node on a slightly older version due to workload compatibility concerns.

Task

Upgrade the cluster node compute-0 to match the version of the control plane node.

Use a command like the following to connect to the compute node:

```
[candidate@cks000034] $ ssh compute-0
```

Do not modify any running workloads in the cluster.

Do not forget to exit from the compute node once you have completed your tasks:

```
[candidate@compute-0] $ exit
```

### Answer:

Explanation:

See the Explanation below for complete solution

Explanation:

Below is the CKS / CKA exam-style, exact step-by-step solution for Upgrading a kubeadm worker node.

Follow in order, type exact commands, no extra actions.

QUESTION - Upgrade node compute-0 (EXAM MODE)

1) Connect to the correct host (control plane)

```
ssh cks000034
```

```
sudo -i
```

```
export KUBECONFIG=/etc/kubernetes/admin.conf
```

2) Identify the control plane Kubernetes version

This is the target version for compute-0.

```
kubectl get nodes
```

Example output:

```
NAME STATUS ROLES VERSION
```

```
control-plane Ready control-plane v1.27.4
```

```
compute-0 Ready <none> v1.26.6
```

Note the control-plane version

Example: v1.27.4

3) Drain the compute node (do NOT modify workloads manually)

```
kubectl drain compute-0 --ignore-daemonsets --delete-emptydir-data
```

Wait until drain completes successfully.

4) SSH into the compute node

```
ssh compute-0
```

```
sudo -i
```

5) Check current kubeadm version on compute node

```
kubeadm version
```

6) Upgrade kubeadm to match control plane version

Replace 1.27.4 with the exact control-plane version you observed.

```
apt-get update
```

```
apt-get install -y kubeadm=1.27.4-00
```

Verify:

```
kubeadm version
```

7) Run kubeadm upgrade for the node

```
kubeadm upgrade node
```

This updates node-specific configs (NO workloads touched).

8) Upgrade kubelet and kubectl to the same version  
 apt-get install -y kubelet=1.27.4-00 kubectl=1.27.4-00  
 9) Restart kubelet  
 systemctl daemon-reload  
 systemctl restart kubelet  
 systemctl status kubelet --no-pager  
 10) Exit the compute node (IMPORTANT)  
 exit  
 11) Uncordon the compute node (back on control plane)  
 kubectl uncordon compute-0  
 12) Final verification  
 kubectl get nodes  
 Expected:  
 NAME STATUS VERSION  
 compute-0 Ready v1.27.4

## NEW QUESTION # 59

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