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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q30-Q35):

NEW QUESTION # 30

NEW QUESTION # 31

NEW QUESTION # 32

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The field of Linux Foundation is growing rapidly and you need the Linux Foundation CKS certification to advance your career in it. But clearing the Certified Kubernetes Security Specialist (CKS) (CKS) test is not an easy task. Applicants often don't have enough time to study for the CKS Exam. They are in desperate need of real CKS exam questions which can help them prepare for the Certified Kubernetes Security Specialist (CKS) (CKS) test successfully in a short time.

The CKS exam was created to ensure candidates have the necessary knowledge of Kubernetes security and practical, hands-on experience necessary to secure Kubernetes environments effectively. Certified Kubernetes Security Specialist (CKS) certification is designed for individuals who administer Kubernetes clusters and deployments, which includes but not limited to System Administrators, DevOps Engineers, Security Specialists, and Operations Engineers. As Kubernetes continues to grow in popularity, this certification allows professionals to differentiate themselves, demonstrate their knowledge and gain a competitive edge in the industry.

To prepare for the CKS Exam, candidates are recommended to have a strong understanding of Kubernetes architecture and concepts, as well as a comprehensive knowledge of security best practices. The Linux Foundation offers a variety of training courses and resources to help candidates prepare for the exam, including online courses, study guides, and practice exams. Additionally, candidates are encouraged to gain hands-on experience working with Kubernetes clusters and implementing security measures in real-world environments.

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IT certifications are playing an important role in our career. In order to get a promotion and get more money, every IT people put more effort into their work. Instead this way, we can depend on our strength to won the boss's heart. Linux Foundation CKS certification is vitally important for IT people. In fact, the test is not difficult as you have imagined it. You only need to select the appropriate training materials. GetValidTest Linux Foundation CKS Practice Test will regularly update the exam dumps to fulfill your requirements. So, our Linux Foundation CKS test is the latest. Hurry up! You will achieve your aim.

The CKS exam is designed to test the candidate's ability to implement and manage security best practices in Kubernetes clusters. This includes securing the Kubernetes API, securing the network infrastructure, implementing secure storage and secrets management, and managing container security. Passing the CKS Exam demonstrates that the candidate has the skills and knowledge to secure Kubernetes clusters and provides a valuable credential for professionals seeking to advance their careers in this field.

Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q41-Q46):

NEW QUESTION # 41
Imagine a scenario where you nave multiple Kubernetes clusters. You want to establish a secure supply chain by allowing only images from a centralized image registry to be deployed across all clusters. Explain how you can achieve this.

Answer:

Explanation:
Solution (Step by Step) :
1. Centralized Image Registry:
- Set up a centralized image registry that will serve as the single source of truth for all container images-
- Some popular choices include:
- Docker Hub: A public registry with a free tier for personal and open-source projects.
- Harbor: An open-source registry with features like vulnerability scanning and access control.
- Google Container Registry (GCR): A registry integrated with Google Cloud Platform, offering features like image signing and storage management.
2. Configure Cluster Access:
- Ensure all your Kubernetes clusters have access to this centralized image registry.
- For private registries, configure authentication and authorization mechanisms to control which clusters have access to which images.
3. Implement Image Pull Policies:
- On each cluster, set the 'imagePullPolicy' to 'Always' for deployments using images from the centralized registry. This ensures that every pod pulls
the image directly from the registry, avoiding reliance on cached images.
- Example (for a deployment using 'nginx:latest' from a private registry):

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: my-private-registry.example.com/nginx:latest
        imagePullPolicy: Always
        ports:
        - containerPort: 80
```


4. Enable Image Signing (Optional): - Implement image signing to further enhance security - Sign images in the centralized registry using a trusted key - Configure Kubernetes clusters to only allow images signed with the trusted key to be deployed. 5. Monitoring and Auditing: - Implement robust monitoring and auditing to track image pulls, deployments, and any potential vulnerabilities. 6. Consider a Software Supply Chain Management (SSCM) Tool: - Use a dedicated SSCM tool to manage the entire image lifecycle, including vulnerability scanning, policy enforcement, and access control. Tools like JFrog Xray or Aqua Security can help automate this process.

NEW QUESTION # 42
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:

```
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
```

```
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:~$ 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@cli:~$
```


NEW QUESTION # 43
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@icompute-e] $ 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 # 44
Given an existing Pod named test-web-pod running in the namespace test-system Edit the existing Role bound to the Pod's Service Account named sa-backend to only allow performing get operations on endpoints.
Create a new Role named test-system-role-2 in the namespace test-system, which can perform patch operations, on resources of type statefulsets.

- A. Create a new RoleBinding named test-system-role-2-binding binding the newly created Role to the Pod's ServiceAccount sa-backend.

Answer: A

NEW QUESTION # 45
Secrets stored in the etcd is not secure at rest, you can use the etcdctl command utility to find the secret value for e.g:-

- A. ETCDCTL_API=3 etcdctl get /registry/secrets/default/cks-secret --cacert="ca.crt" --cert="server.crt" --key="server.key"

Answer: A

Explanation:
Output

Using the Encryption Configuration, Create the manifest, which secures the resource secrets using the provider AES-CBC and identity, to encrypt the secret-data at rest and ensure all secrets are encrypted with the new configuration.

NEW QUESTION # 46
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