Quiz Linux Foundation - CKS - Unparalleled Vce Certified Kubernetes Security Specialist (CKS) Test Simulator



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The CKS exam is designed to assess the candidate's proficiency in security best practices for Kubernetes platforms and containerized workloads, including securing Kubernetes components, securing container images and registries, securing network communication, and configuring security contexts. CKS exam is a performance-based test, which means that the candidate must complete a series of tasks in a live Kubernetes environment, demonstrating their ability to secure Kubernetes platforms and containerized workloads.

The CKS Certification is highly regarded in the industry and is recognized by major technology companies and organizations. Earning the CKS certification demonstrates a professional's commitment to mastering Kubernetes security and validates their expertise in the field. Certified Kubernetes Security Specialist (CKS) certification also opens up new job opportunities and career advancement for professionals in the fast-growing field of Kubernetes security.

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Linux Foundation CKS Test Dates & CKS Valid Exam Topics

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Linux Foundation CKS Exam Syllabus Topics:

Topic	Details
Topic 1	Cluster Hardening: Cluster hardening focuses on securing Kubernetes API access, utilizing Role-Based Access Controls, managing service accounts, and keeping Kubernetes updated. This CKS exam topic measures Kubernetes practitioners' ability to enhance cluster security by reducing exposure and managing permissions effectively.

Topic 2	 Monitoring, Logging, and Runtime Security: This area of the Certified Kubernetes Security Specialist exam focuses on behavioral analytics, threat detection across infrastructure, and ensuring container immutability. The proficiency of the Kubernetes practitioner here demonstrates the ability to maintain security and investigate incidents effectively.
Topic 3	 Supply Chain Security: Supply chain security addresses securing base images, whitelisting registries, signing images, performing static analysis, and scanning for vulnerabilities. The CKA exam assesses the skills of Kubernetes practitioners in protecting the entire supply chain of containerized applications from creation to deployment.
Торіс 4	Cluster Setup: This topic assesses the skills of Kubernetes practitioners in configuring secure Kubernetes clusters. It covers network security policies, CIS benchmarks, ingress security, node metadata protection, minimizing GUI access, and verifying platform binaries. Proficiency in these areas ensures a secure foundation for Kubernetes deployments.
Topic 5	Minimize Microservice Vulnerabilities: This topic of the Linux Foundation Kubernetes Security Specialist exam evaluates techniques to secure microservices, including OS-level security domains, managing Kubernetes secrets, using container runtime sandboxes, and implementing pod-to-pod encryption. It measures the ability to safeguard against vulnerabilities within a multi-tenant environment.

Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q53-Q58):

NEW QUESTION #53

You are responsible for securing the software supply chain of your company's applications deployed in a Kubernetes cluster. You are implementing a CI/CD pipeline that builds, tests, and deploys container images. Currently, your pipeline relies on pulling images directly from Docker Hub without any security checks. How would you enhance your pipeline to verify the integrity of the images pulled from Docker Hub?

Answer:

Explanation:

Solution (Step by Step):

- 1. Implement Image Signing:
- Step I: Generate a signing key and certificate pair for your organization.
- Step 2: Configure your CIICD pipeline to sign container images after they are built using the generated key and certificate.
- Step 3: Configure your Kubernetes cluster to only pull and deploy images that are signed with your organization's certificate. This step involves creating a 'PodSecurityPolicy' (PSP) or 'PodSecurityAdmissioru (PSA) resource to enforce image signing. Example Code:

```
apiVersion: rbac.authorization.k8s.io/v1
     kind: Role
     metadata:
       name: image-signer
     rules:
     - apiGroups: [""]
       resources: ["pods"]
       verbs: ["create", "get", "list", "watch"]
     apiVersion: rbac.authorization.k8s.io/v1
     kind: RoleBinding
     metadata:
       name: image-signer-binding
     roleRef:
       apiGroup: rbac.authorization.k8s.id
       kind: Role
       name: image-signer
     subjects:
     - kind: User
       name: your-username
apiVersion: apps/v
kind: Deployment
metadata:
  name: nginx-deployment
speci
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: your-registry/nginx:latest
        imagePullSecrets:
          - name: image-signer-secret
```

Example Code: 2. Integrate SBOM Generation: - Step 1: Configure your CI/CD pipeline to generate a Software Bill of Materials (SBOM) for each container image. - Step 2: Store the SBOM alongside the container image in your artifact repository. - Step 3: Implement a process to verify the SBOM against a vulnerability database to ensure the image does not contain any known vulnerabilities. Example Code: # Example of generating an SBOM with Syft syn packages my-image.tar 3. Utilize Container Scanning Tools: - Step 1: Integrate container scanning tools like Clair, Anchore, or Trivy into your CI/CD pipeline. - Step 2: Configure these tools to scan images before deployment for known vulnerabilities. - Step 3: Configure your pipeline to fail the build if vulnerabilities are detected. Example Code: # Example of scanning a container image with Trivy trivy image my-image:latest By implementing these security measures, you can significantly strengthen your software supply chain, reducing the risk of vulnerabilities and malicious attacks.

NEW QUESTION #54

SIMULATION

Given an existing Pod named nginx-pod running in the namespace test-system, fetch the service-account-name used and put the content in /candidate/KSC00124.txt Create a new Role named dev-test-role in the namespace test-system, which can perform

update operations, on resources of type namespaces.

Create a new RoleBinding named dev-test-role-binding, which binds the newly created Role to the Pod's ServiceAccount (found in the Nginx pod running in namespace test-system).

• A. Sendusyourfeedbackonit

[node01@cli] \$ vim/etc/falco/falco.yaml

Answer: A

NEW QUESTION #55

You must complete this task on the following cluster/nodes: Cluster: trace Master node: master Worker node: worker1 You can switch the cluster/configuration context using the following command: [desk@cli] \$ kubectl config use-context trace Given: You may use Sysdig or Falco documentation. Task: Use detection tools to detect anomalies like processes spawning and executing something weird frequently in the single container belonging to Pod tomcat. Two tools are available to use: 1. falco 2. sysdig Tools are pre-installed on the worker1 node only. Analyse the container's behaviour for at least 40 seconds, using filters that detect newly spawning and executing processes. Store an incident file at /home/cert_masters/report, in the following format: [timestamp],[uid], [processName] Note: Make sure to store incident file on the cluster's worker node, don't move it to master node.

Answer:

Explanation: \$vim/etc/falco/falco rules.local.yaml - rule: Container Drift Detected (open+create) desc: New executable created in a container due to open+create condition:> evt.type in (open,openat,creat) and evt.is open exec=true and container and not runc writing exec fifo and not runc writing var lib docker and not user known container drift activities and evt.rawres>=0 output:> %evt.time,%user.uid,%proc.name # Add this/Refer falco documentation priority: ERROR \$kill -1 <PID of falco> Explanation [desk@cli] \$ ssh node01 [node01@cli] \$ vim/etc/falco/falco rules.yaml search for Container Drift Detected & paste in falco rules.local.yaml [node01@cli] \$ vim/etc/falco/falco rules.local.yaml - rule: Container Drift Detected (open+create) desc: New executable created in a container due to open+create condition: > evt.type in (open,openat,creat) and evt.is open exec=true and container and not runc writing exec fifo and not runc writing var lib docker and not user known container drift activities and evt.rawres>=0 output:> %evt.time, %user.uid, %proc.name # Add this/Refer falco documentation priority: ERROR

```
file_output:
    enabled: true
    keep_alive: false
    filename: /home/cert_masters/report
```

NEW QUESTION #56

Task

Analyze and edit the given Dockerfile /home/candidate/KSSC00301/Docker file (based on the ubuntu:16.04 image), fixing two instructions present in the file that are prominent security/best-practice issues.

Analyze and edit the given manifest file /home/candidate/KSSC00301/deployment.yaml, fixing two fields present in the file that are prominent security/best-practice issues.

Don't add or remove configuration settings; only modify the existing configuration settings, so that **two** configuration settings each are no longer security/best-practice concerns.

Should you need an unprivileged user for any of the tasks, use user nobody with user id 65535.

Answer:

Explanation:

candidate@cli:~\$ kubectl config use-context KSSC00301 Switched to context "KSSC00301". candidate@cli:~\$ vim KSSC00301/Dockerfile

```
FROM ubuntu:16.04
USER root
RUN apt-get update && \
    apt-get install -yq --no-install-recommends runiti=2.1.2-3ubuntul wget=1.17.1-1ubuntul.5
        chrpath=0.16-1 tzdata=2020a-0ubuntu0.16.04 lsof=4.89+dfsq-0.1 lshw=02.17-1.1ubuntu3
        sysstat=11.2.0-1ubuntu0.3 net-tools=1.60-26ubuntu1 numactl=2.0.11-1ubuntu1.1 \
        bzip2=1.0.6-8ubuntu0.2 && \
    apt-get autoremove && apt-get clean && \
    rm -rf /var/lib/apt/lists/* /tmp/* /var/tmp/*
ARG CB VERSION=6.5.1
ARG CB_RELEASE_URL=https://packages.couchbase.com/releases/6.5.1
ARG CB PACKAGE=couchbase-server-enterprise 6.5.1-ubuntu16.04 amd64
ARG CB SHA256=80427193137e5cb5a4795b2675b1c450claf8cf1a5c634d
ENV PATH=$PATH:/opt/couchbase/bin:/opt/couchbase/bin/too : opt/couchbase/bin/install
                                                           -g couchbase -M
RUN groupadd -g 1000 couchbase && useradd couchbas
RUN export INSTALL DONT START SERVER=1 && \
    wget -N --no-verbose $CB RELEASE URL
                                                 GE && \
                                               -c - && \
    dpkg -i ./$CB_PACKAGE && rm -f /$B_
COPY scripts/run /etc/service/col
                                       server/run
RUN chown -R couchbase:couchb
                                   service
COPY scripts/dummy.sh /us/local/bin/
RUN ln -s dummy.sh /us/local/bin/iptables-save && \
ln -s dummy.sh /us/local/bin/lydisplay && \
ln -s dummy.sh /us/local/bin/ygdisplay && \
    ln -s dummy.sh /usr/local/bin/pvdisplay
                    IGIN/../lib" /opt/couchbase/bin/curl
RUN chrpath -r "
COPY scripts/entrypoint.sh /
USER nobody
CMD [
EXPOSE 8091 8092 8093 8094 8095 8096 11207 11210 11211 18091 18092 18093 18094 18095 18096
VOLUME /opt/couchbase/var
candidate@cli:~$ kubectl configure-context KSSC00301
Switched to context "KSSC00300".
candidate@cli:~$ vim KSSC00301/Dockerfile
candidate@cli:~$ vim KSSC00301/deployment.yaml
                          testvalid.com
            memory: 1024Mi
            memory: 512Mi
```

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 that 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
  podSelector: {}
  ingress:
  - from:
    - podSelector: {}
        # 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.

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