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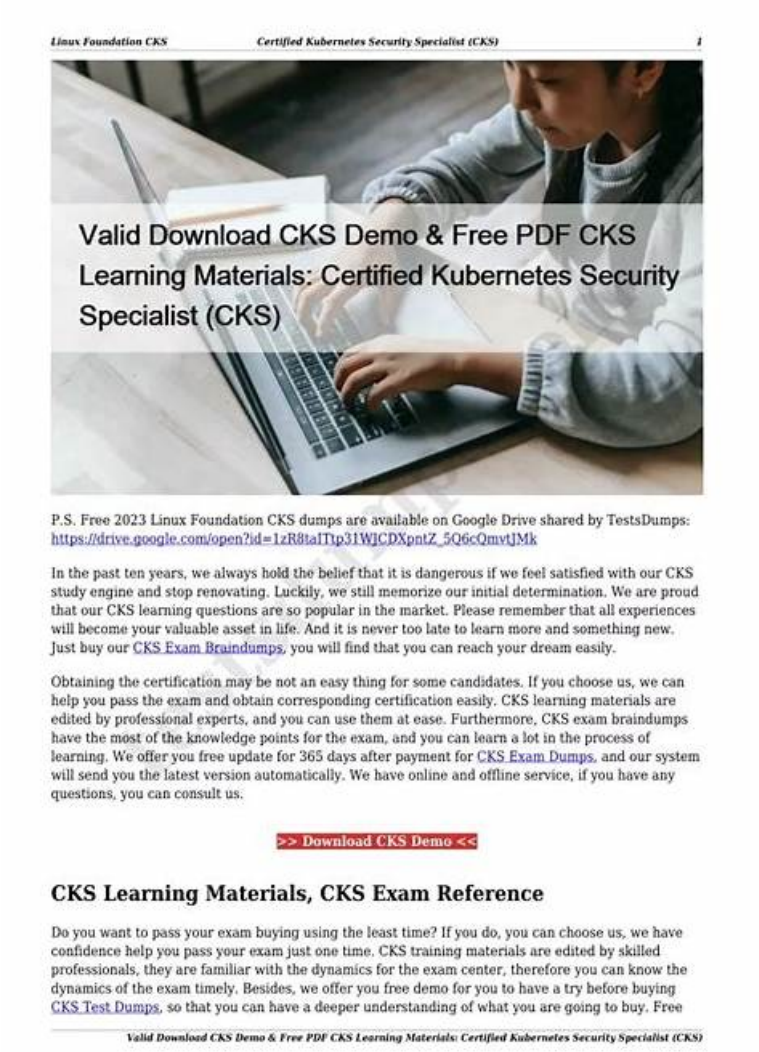

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Linux Foundation Certified Kubernetes Security Specialist (CKS) Certification Exam is a professional certification that validates the skills and knowledge of individuals in securing containerized applications and Kubernetes platforms. Kubernetes is an open-source container orchestration platform that has gained widespread popularity in recent years, and with the increasing use of Kubernetes, the demand for skilled Kubernetes security specialists has also increased.

Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q96-Q101):

NEW QUESTION # 96
Context: Cluster: prod Master node: master1 Worker node: worker1
You can switch the cluster/configuration context using the following command:
[desk@cli] $ kubectl config use-context prod
Task: Analyse and edit the given Dockerfile (based on the ubuntu:18:04 image) /home/cert_masters/Dockerfile fixing two instructions present in the file being prominent security/best-practice issues.
Analyse and edit the given manifest file /home/cert_masters/mydeployment.yaml fixing two fields present in the file being prominent security/best-practice issues.
Note: 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:
1. For Dockerfile: Fix the image version & user name in Dockerfile 2. For mydeployment.yaml : Fix security contexts Explanation
[desk@cli] $ vim /home/cert_masters/Dockerfile
FROM ubuntu:latest # Remove this
FROM ubuntu:18.04 # Add this
USER root # Remove this
USER nobody # Add this
RUN apt get install -y lsof=4.72 wget=1.17.1 nginx=4.2
ENV ENVIRONMENT=testing
USER root # Remove this
USER nobody # Add this
CMD ["nginx -d"]

```
FROM ubuntu:latest  # Remove this
FROM ubuntu:18.04   # Add this
USER root           # Remove this
USER nobody         # Add this
RUN apt get install -y lsof=4.72 wget=1.17.1 nginx=4.2
ENV  ENVIRONMENT=testing
USER root           # Remove this
USER nobody         # Add this
CMD ["nginx -d"]
```


[desk@cli] $ vim /home/cert_masters/mydeployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
creationTimestamp: null
labels:
app: kafka
name: kafka
spec:
replicas: 1
selector:
matchLabels:
app: kafka
strategy: {}
template:

metadata:
creationTimestamp: null
labels:
app: kafka
spec:
containers:
- image: bitnami/kafka
name: kafka
volumeMounts:
- name: kafka-vol
mountPath: /var/lib/kafka
securityContext:
{"capabilities":{"add":["NET_ADMIN"],"drop":["all"]},"privileged": True,"readOnlyRootFilesystem": False, "runAsUser": 65535} # Delete This
{"capabilities":{"add":["NET_ADMIN"],"drop":["all"]},"privileged": False,"readOnlyRootFilesystem": True, "runAsUser": 65535} # Add This resources: {} volumes:
- name: kafka-vol
emptyDir: {}
status: {}
Pictorial View: [desk@cli] $ vim /home/cert_masters/mydeployment.yaml

NEW QUESTION # 97
Your organization runs a Kubernetes cluster with sensitive dat
a. You want to implement a comprehensive security strategy that involves both Kubernetes features and external security tools. Describe the security best practices and tools you would use to secure the cluster and its applications.

Answer:

Explanation:
Solution (Step by Step) :
1. Kubernetes Security Best Practices:
- Namespaces Use namespaces to isolate applications and prevent cross-contamination
- Pod Security Policies (PSPs): Implement PSPs to restrict capabilities and resources for pods.
- Network Policies: Define network policies to control communication between pods and limit external access.
- RBAC (Role-Based Access Control): Use RBAC to control access to cluster resources based on roles and permissions.
- Service Accounts: Create service accounts with limited privileges for each application.
- Resource Quotas Set resource quotas to limit resource consumption and prevent one application from impacting others.
- Pod Disruption Budgets (PDBs): Ensure availability and resilience by setting up PDBs.
- Security Context: use security context to configure pod security settings at the pod level.
- Least Privilege: Follow the principle of least privilege, granting only the necessary permissions to applications.
2. External Security Tools:
- Vulnerability Scanners: Use vulnerability scanners like Aqua Security, Snyk, and Anchore to identify and remediate vulnerabilities in containers and applications.

- Container Security Platforms: Implement container security platforms like Twistlock, Aqua Security, and Docker Security Scanning for comprehensive
security analysis and runtime protection.
- Network Security Monitoring: Use network security monitoring tools like Wireshark, tcpdump, and Zeek to monitor network traffic for suspicious activity.
- Security Information and Event Management (SIEM): Deploy a SIEM solution like Splunk, Elasticsearch, or Graylog to centralize security logs and
events, enabling real-time threat detection and incident response.
- Intrusion Detection Systems (IDS): Use IDS solutions like Suricata, Snort, and Bro to detect malicious activity within the cluster network.
- Security Orcnestration and Automation (SOAR): Implement SOAR tools like Phantom, Demisto, and ServiceNow to automate security tasks, incident
response, and threat hunting.
3. Other Security Considerations:
- Encryption at Rest: Encrypt sensitive data stored within the cluster, including databases, persistent volumes, and configuration files.
- Encryption in Transit use TLS/SSL to secure communication between cluster components and external services.
- Regular Security Audits: Conduct regular security audits to identity and remediate potential vulnerabilities and ensure that security controls are effective.
- Penetration Testing: Perform penetration testing to evaluate the security posture of the cluster and applications from an attackers perspective.
- Incident Response Planning: Develop a comprehensive incident response plan to handle security incidents efficiently and effectively.
By implementing these security best practices and using a combination of Kubernetes features and external security tools, you can create a more secure and resilient Kubernetes environment to protect sensitive data and applications.

NEW QUESTION # 98
You are building a container image for your application that uses a third-party library. Describe the steps involved in scanning the third- party library for vulnerabilities before incorporating it into your image.

Answer:

Explanation:
Solution (Step by Step) :
1. Choose a Vulnerability Scanner:
- Select a vulnerability scanner that supports the language and dependencies of your third-pady library.
- Some popular options include:
- Snyk
- Aqua Security
- Anchore
- Trivy
2. Scan the Third-Party Library:
- Use the chosen vulnerability scanner to scan the third-pany library for known vulnerabilities.
- Provide the scanner with the library's source code, package manager lock file, or other relevant information.
3. Analyze the Scan Results:
- Review the scan results carefully.
- Identify any high-severity vulnerabilities reported by the scanner.
- Determine the impact of each vulnerability on your application's security.
4. Remediate Vulnerabilities:
- If any high-severity vulnerabilities are found, consider the following options:
- Update the Library: Check if a newer version of the library addresses tne vulnerabilities.
- Use a Different Library: If an updated version is not available or the vulnerabilities cannot be mitigated, consider using a different library.
- Apply Patcnes: If the vulnerabilities are in the code itself, apply patcnes to fix them.
- Accept the Risk: If the vulnerabilities are deemed low-risk or the impact is minimal, you may decide to accept the risk
5. Integrate Scanning into CI/CD Pipeline:
- Integrate the vulnerability scanning process into your continuous integration and continuous delivery (CI/CD) pipeline.
- This will ensure that the library is scanned automatically during each build process, providing early detection of vulnerabilities.
6. Example using Snyk:
- Install Snyk:
npm install snyk --global
- Scan the library:

snyk test --package-manager --package-name
- This command will scan the specified library for vulnerabilities.
- Remediate vulnerabilities:
snyk upgrade --package-manager --package-name
- This command will upgrade the library to the latest version that fixes the vulnerabilities.

NEW QUESTION # 99
SIMULATION
On the Cluster worker node, enforce the prepared AppArmor profile
#include <tunables/global>
profile nginx-deny flags=(attach_disconnected) {
#include <abstractions/base>
file,
Deny all file writes.
deny /** w,
}
EOF'
Edit the prepared manifest file to include the AppArmor profile.
apiVersion: v1
kind: Pod
metadata:
name: apparmor-pod
spec:
containers:
- name: apparmor-pod
image: nginx
Finally, apply the manifests files and create the Pod specified on it.
Verify: Try to make a file inside the directory which is restricted.

- A. Send us the Feedback on it.

Answer: A

NEW QUESTION # 100
You are running a web application in a Kubernetes cluster using a Deployment. You want to implement a security measure to ensure that the application container only has access to the necessary system calls and files. You're worried about potential exploits that could give the container excessive privileges. Explain how you would use Seccomp profiles to achieve this, and provide an example Seccomp profile using a JSON format.

Answer:

Explanation:
Solution (Step by Step) :
1. Understand Seccomp: Seccomp (Secure Computing Mode) is a Linux kernel feature that allows you to restrict the system calls that a process can make. You can define a profile that lists the allowed system calls, effectively creating a "sandbox" for the container.
2. Create a Seccomp Profile: You can create a Seccomp profile in a JSON format. Here's an example:

```
json
{
"defaultAction": "KILL",
"syscalls": [
{
"name": "open",
"action": "ALLOW",
"args": [
{
```

```
"index": 0,
"value": "/var/run/secrets/kubernetes.io/serviceaccount",
"op": "EQ"
}
]
},
{
"name": "read",
"action": "ALLOW"
},
{
"name": "write",
"action": "ALLOW"
},
{
"name": "stat",
"action": "ALLOW"
},
{
"name": "lstat",
"action": "ALLOW"
},
{
"name": "fstat",
"action": "ALLOW"
},
{
"name": "fstatfs",
"action": "ALLOW"
},
{
"name": "getdents64",
"action": "ALLOW"
},
{
"name": "getuid",
"action": "ALLOW"
},
{
"name": "geteuid",
"action": "ALLOW"
},
{
"name": "getgid",
"action": "ALLOW"
},
{
"name": "getegid",
"action": "ALLOW"
},
{
"name": "getppid"
```

```
"name": "getppid",
"action": "ALLOW"
},
{
"name": "clock_gettime",
"action": "ALLOW"
},
{
"name": "gettimeofday",
"action": "ALLOW"
},
{
"name": "exit",
"action": "ALLOW"
},
{
"name": "exit_group",
"action": "ALLOW"
},
{
"name": "kill",
"action": "ALLOW"
}
]
}
```

3. Apply the Seccomp Profile: You can apply the Seccomp profile to your container using the 'securitycontext' field in your Deployment YAML.

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-web-app
spec:
  replicas: 2
  selector:
    matchLabels:
      app: my-web-app
  template:
    metadata:
      labels:
        app: my-web-app
    spec:
      containers:
      - name: my-web-app
        image: my-web-app:latest
        securityContext:
          seccompProfile:
            localhost:
              type: SeccompProfileLocalhost
              localSocket: /var/run/seccomp
        ports:
        - containerPort: 80
      volumes:
      - name: secret-volume
        secret:
          secretName: my-app-secret
```


4. Test and Verify: After deploying your Deployment, test your application and make sure it functions as expected. You can verity that the Seccomp profile is working by attempting to run commands within the container that are not allowed by your profile.

NEW QUESTION # 101
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