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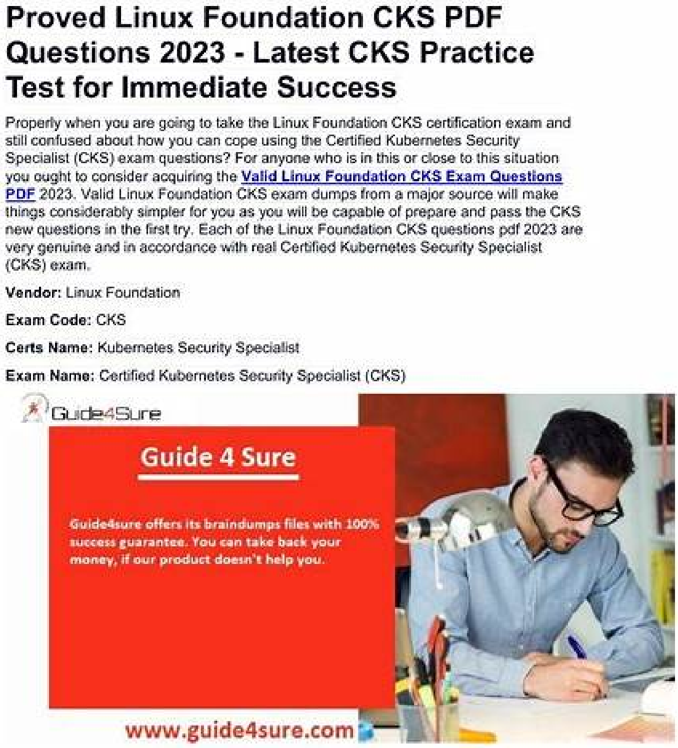

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Vendor: Linux Foundation

Exam Code: CKS

Certs Name: Kubernetes Security Specialist

Exam Name: Certified Kubernetes Security Specialist (CKS)

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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q48-Q53):

NEW QUESTION # 48
Your organization runs a Kubemetes 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 # 49
You are running a Kubernetes cluster with a deployment named "my-app" that uses a container image from a public registry. You suspect that a recent deployment update may have introduced a vulnerability in one of the containers. Explain how you would use a container security posture management (CSPM) tool like Aqua Security to identify and address this potential security risk.

Answer:

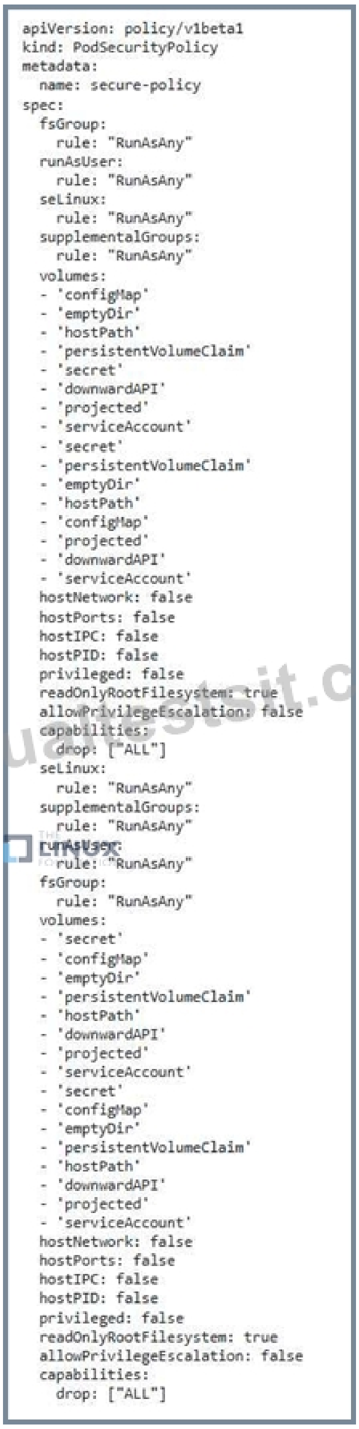
Explanation:
Solution (Step by Step) :
1. Deploy Aqua Security:

- Install and configure Aqua Security on your Kubernetes cluster. Aqua Security is a comprehensive CSPM solution that offers a wide range of container security features, including vulnerability scanning, runtime security, and policy enforcement
2 Enable Continuous Image Scanning:
- Configure Aqua Security to continuously scan container images stored in your private registry for vulnerabilities. You can set up policies to block images With specific vulnerabilities or those that fail to meet your security requirements.
3. Implement Runtime Security:
- Enable Aqua Security's runtime security capabilities to monitor running containers for suspicious activity. This includes:
- File Integrity Monitoring (FIM): Detect unauthorized changes to files within containers.
- Network Security: Monitor network connections and identify unauthorized or suspicious traffic.
- Process Monitoring: Detect and block unexpected processes launched within containers.
4. Define Security Policies:
- Create custom security policies in Aqua Security to enforce specific security rules and controls for your Kubernetes cluster. These policies can
define:
- Vulnerability Limits: Allow only containers with specific vulnerability levels to run.
- Network Access Controls: Restrict network connections from containers.
- Resource IJsage Limits: Limit the resources (CPU, memory) that containers can consume-
5. Investigate Security Alerts:
- Aqua Security will generate alerts when it detects potential security risks- Investigate these alerts to understand the root cause of the issue and take corrective actions.
6. Remediate Security Issues:
- Use Aqua Security's remediation capabilities to address vulnerabilities and security issues. This could involve updating container images, patching vulnerabilities, or implementing additional security controls.
7. Monitor and Report:
- Regularly review the security reports and dashboards provided by Aqua Security to track your container security posture- Stay informed about any potential threats and proactively address them.

NEW QUESTION # 50
Your organization has a policy requiring all Kubernetes deployments to utilize Pod Security Policies (PSPs) to enforce security best practices. You're responsible for creating a PSP that enforces the following:
- Only allows containers with a specific security context (privileged: false, runAsUser: 1000, readOnlyRootFilesystem: true)
- Restricts access to most resources by denying the 'hostPort and 'hostNetwork' capabilities.
- Prohibits the use of privileged containers.
Implement the required PSP configuration

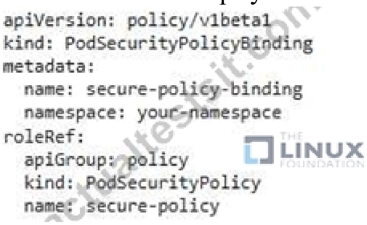
Answer:

Explanation:
Solution (Step by Step) :
1. Create a PodSecurityPolicy:
- Define a PodSecurityP01icy named 'secure-policy' that enforces the specified security restrictions.



```
apiVersion: policy/v1beta1
kind: PodSecurityPolicy
metadata:
  name: secure-policy
spec:
  fsGroup:
    rule: "RunAsAny"
  runAsUser:
    rule: "RunAsAny"
  seLinux:
    rule: "RunAsAny"
  supplementalGroups:
    rule: "RunAsAny"
  volumes:
  - 'configMap'
  - 'emptyDir'
  - 'hostPath'
  - 'persistentVolumeClaim'
  - 'secret'
  - 'downwardAPI'
  - 'projected'
  - 'serviceAccount'
  - 'secret'
  - 'persistentVolumeClaim'
  - 'emptyDir'
  - 'hostPath'
  - 'configMap'
  - 'projected'
  - 'downwardAPI'
  - 'serviceAccount'
  hostNetwork: false
  hostPorts: false
  hostIPC: false
  hostPID: false
  privileged: false
  readOnlyRootFilesystem: true
  allowPrivilegeEscalation: false
  capabilities:
    drop: ["ALL"]
  seLinux:
    rule: "RunAsAny"
  supplementalGroups:
    rule: "RunAsAny"
  runAsUser:
    rule: "RunAsAny"
  fsGroup:
    rule: "RunAsAny"
  volumes:
  - 'secret'
  - 'configMap'
  - 'emptyDir'
  - 'persistentVolumeClaim'
  - 'hostPath'
  - 'downwardAPI'
  - 'projected'
  - 'serviceAccount'
  - 'secret'
  - 'configMap'
  - 'emptyDir'
  - 'persistentVolumeClaim'
  - 'hostPath'
  - 'downwardAPI'
  - 'projected'
  - 'serviceAccount'
  hostNetwork: false
  hostPorts: false
  hostIPC: false
  hostPID: false
  privileged: false
  readOnlyRootFilesystem: true
  allowPrivilegeEscalation: false
  capabilities:
    drop: ["ALL"]
```

2. Create a PodSecurityPolicy8inding: - Bind the 'secure-policy' to a namespace or specific deployments. - This ensures that the PSP is enforced for deployments Within the bound scope.



```
apiVersion: policy/v1beta1
kind: PodSecurityPolicyBinding
metadata:
  name: secure-policy-binding
  namespace: your-namespace
roleRef:
  apiGroup: policy
  kind: PodSecurityPolicy
  name: secure-policy
```

3. Deploy the PSP: - Apply the 'secure-policy.yaml and 'secure-policy-binding.yaml files to the cluster - This will activate the PSP and enforce the defined security rules. 4. Validate PSP Enforcement - Attempt to create a deployment that violates the PSP rules. - Verifiy that the deployment creation fails due to the PSP enforcement.

NEW QUESTION # 51

A container image scanner is set up on the cluster.

Given an incomplete configuration in the directory
/etc/Kubernetes/confcontrol and a functional container image scanner with HTTPS endpoint https://acme.local.8081/image_policy

- A. 1. Enable the admission plugin.

Answer: A

Explanation:
2. Validate the control configuration and change it to implicit deny.
Finally, test the configuration by deploying the pod having the image tag as the latest.

NEW QUESTION # 52
Context:
Cluster: gvisor
Master node: master1
Worker node: worker1
You can switch the cluster/configuration context using the following command:

```
[desk@cli] $ kubectl config use-context gvisor
```

Context: This cluster has been prepared to support runtime handler, runsc as well as traditional one.
Task:
Create a RuntimeClass named not-trusted using the prepared runtime handler names runsc.
Update all Pods in the namespace server to run on newruntime.

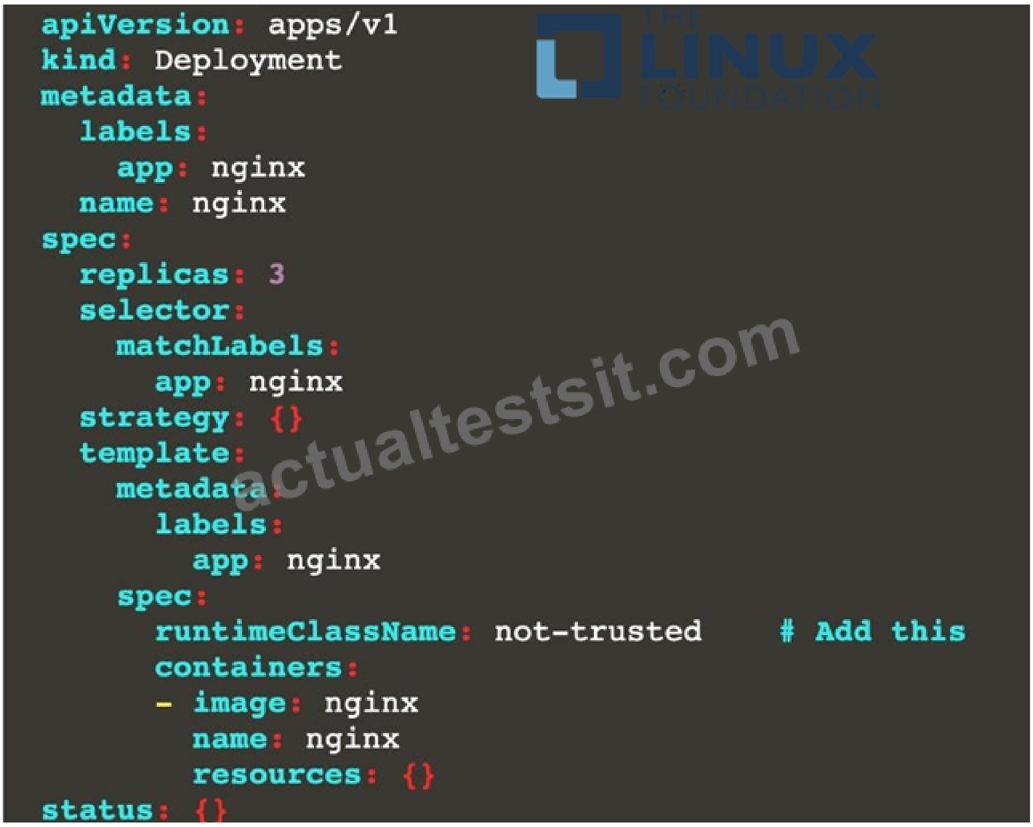
Answer:

Explanation:
Find all the pods/deployment and edit runtimeClassName parameter to not-trusted under spec

```
[desk@cli] $ k edit deploy nginx
spec:
runtimeClassName: not-trusted. # Add this
```

Explanation

```
[desk@cli] $vim runtime.yaml
apiVersion: node.k8s.io/v1
kind: RuntimeClass
metadata:
name: not-trusted
handler: runsc
[desk@cli] $ k apply -f runtime.yaml
[desk@cli] $ k get pods
NAME READY STATUS RESTARTS AGE
nginx-6798fc88e8-chp6r 1/1 Running 0 11m
nginx-6798fc88e8-fs53n 1/1 Running 0 11m
nginx-6798fc88e8-ndved 1/1 Running 0 11m
[desk@cli] $ k get deploy
NAME READY UP-TO-DATE AVAILABLE AGE
nginx 3/3 11 3 5m
[desk@cli] $ k edit deploy nginx
```



```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app: nginx
  name: nginx
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  strategy: {}
  template:
    metadata:
      labels:
        app: nginx
    spec:
      runtimeClassName: not-trusted    # Add this
      containers:
      - image: nginx
        name: nginx
        resources: {}
status: {}
```

NEW QUESTION # 53
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