# 2026 Linux Foundation CKS: Certified Kubernetes Security Specialist (CKS) First-grade Test Testking


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## Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q25-Q30):

**NEW QUESTION # 25**
You have a Kubernetes cluster running a web application. You want to enforce secure communication between the web server pods and the database pods in a separate namespace. How would you implement this using TLS certificates and Secrets?

**Answer:**

Explanation:
Solution (Step by Step):
1. Generate TLS Certificates: Generate a certificate authority (CA) certificate and server/client certificates.
- You can use tools like OpenSSL or Let's Encrypt to generate these certificates-
2. Create Secrets: Create Kubernetes Secrets to store the certificates.
- Secret for CA Certificate: Create a Secret with the CA certificate and private key.
- Secret for Server Certificate: Create a Secret With the server certificate and private key.
- Secret for Client Certificate: Create a Secret with the client certificate and private key (optional, if you want to enforce client authentication).
3. Mount Certificates: Mount the Secrets containing the certificates into the pods.

- Web Server Pods: Mount the CA certificate and server certificate Secret
- Database Pods: Mount the CA certificate and client certificate Secret (optional, if you want to enforce client authentication).
4. Configure TLS: Configure your web server and database applications to use the mounted certificates for TLS communication.
- Web Server: Configure it to use the server certificate and private key for HTTPS communication.
- Database: Configure it to accept TLS connections and use the client certificate (if client authentication is enabled).
Example using OpenSSL for generating certificates and Kubernetes Secrets:
Generating Certificates:
bash
# Generate a CA certificate and key
openssl req -x509 -newkey rsa:2048 -keyout ca.key -out ca.crt \
-days 365 -nodes -subj "/C=US/ST=CA/L=Los Angeles/O=Example Inc./CN=Example CA"
# Generate a server certificate and key
openssl req -newkey rsa:2048 -keyout server.key -out server.csr \
-subj Angeles/O=Example Inc./CN=example.com"
openssl x509 -req -in server.csr -CA cmcrt -CAkey cakey -CAcreateserial \
-out server.cn -days 365 -sha256 -extensions v3_req
# Generate a client certificate and key (optional)
openssl req -newkey rsa:2048 -keyout client.key -out client_csr \
-subj Angeles/O=Example Inc./CN=client.example.com"
openssl x509 -req -in client.csr -CA ca.crt -CAkey cakey -CAcreateseriaI
-out client.crt -days 365 -sha256 -extensions v3_req
Creating Secrets:
Mounting Secrets in Pods: - Web Server Pod: Mount the 'ca-cen' and 'server-cert Secrets. - Database Pod: Mount the 'ca-cert' and 'client-cert Secrets (if client authentication is enabled). Important Notes: - This implementation assumes you have the necessary knowledge about TLS certificates and secrets management in Kubernetes. - You need to configure your web server and database applications to use the certificates and enforce TLS communicatiom - Ensure the security of your certificates and private keys, as they are critical for secure communication.

**NEW QUESTION # 26**
Context
A default-deny NetworkPolicy avoids to accidentally expose a Pod in a namespace that doesn't have any other NetworkPolicy defined.
Task
Create a new default-deny NetworkPolicy named defaultdeny in the namespace testing for all traffic of type Egress.
The new NetworkPolicy must deny all Egress traffic in the namespace testing.
Apply the newly created default-deny NetworkPolicy to all Pods running in namespace testing.

**Answer:**

Explanation:

**NEW QUESTION # 27**
You are tasked with securing a Kubernetes cluster running a critical application. One of the security best practices you need to implement is to enforce the use of signed container images. You have access to a private container registry and a PKI system for generating and managing certificates. Explain in detail now you would implement this policy, covering steps like image signing, verification, and integration with Kubernetes.

**Answer:**

Explanation:
Solution (Step by Step) :
1. Generate Certificate and Key:
- Use your PKI system to generate a certificate and private key for signing container images. This will be used to authenticate and verify the image's origin and integrity
- Choose appropriate key lengths and algorithms for security.
2. Sign Container Image:
-After building your container image, use the generated private key to sign it.

- Tools like 'cosign' or 'docker-content-trust' can be used for image signing.
- 'cosigns example:
bash
cosign sign --key my-private-key-pem nginx:latest
3. Push Signed Image to Registry:
- Push the signed image to your private container registry The signed image should include the signature and certificate.
4. Configure Kubernetes Image Policy:
- Implement an image policy in your Kubernetes cluster that enforces the verification of signatures for images pulled from your private registry
- You can use 'PodSecurityPolicy' or 'P0dSecurityAdmissioru for this purpose.
- Example 'PodSecurityPolicy' with image signature validation (this is a simplified example):
5. Configure Image Pull Secrets: - Create a Kubernetes Secret containing the public certificate used for verification. - You can then use 'imagePullSecrets' in your deployment resources to reference this secret. - Example:
6. Deploy Your Application - Once your image policy is configured, you can deploy your application using the signed images. - Kubernetes Will verify the signature before starting any pods.

**NEW QUESTION # 28**
Your organization has adopted a microservices architecture. Each microservice is deployed as a Kubernetes pod, and the communication between them relies neavily on service discovery and network policies. You need to implement a security measure to prevent unauthorized pods from accessing sensitive data stored within other pods. What techniques would you use and how would you apply them in a Kubernetes environment?

**Answer:**

Explanation:
Solution (Step by Step) :
1. Network Policy:
- Define network policies to restrict communication between pods based on specific criteria like namespaces, labels, and pod selectors.
- Create network policies that only allow authorized pods to access sensitive data.
- For example
- Allow pods in the 'production' namespace to only communicate with pods in the same namespace and pods in the 'database' namespace.
- Deny all other tramc from pods in the 'production- namespace.
2. Service Mesh:
- Utilize a service mesh like Istio or Linkerd to provide fine-grained control over service-to-service communication.
- Define policies within the service mesh to enforce authorization rules and restrict access to sensitive data.
- Service mesh implementations offer features like:
- Mutual TLS (mTLS): Encrypt all communications between pods with certificates tor mutual authentication and authorization.
- Traffic Management: Control the flow of traffic between services based on rules, rate limits, and circuit breakers.
- Access Control: Enforce access control policies for specific services or endpoints.
3. Pod security Policies (PSP):
- Implement pod security policies (PSP) to restrict the capabilities and resources available to pods.
- Define PSP rules that prevent pods from accessing sensitive volumes or having privileged permissions.
- Use PSPs to restrict pod resource usage and limit the potential impact of security breaches.
4. Secret Management:
- Store sensitive data, such as API keys, database credentials, and certificates, in Kubernetes secrets.
- Use strong encryption and access control to restrict access to secrets.
- Utilize Kubernetes's built-in secret management tools or third-party solutions to manage and rotate secrets securely.
5. Role-Based Access Control (RBAC)I
- Implement R8AC within Kubernetes to control access to resources.
- Assign roles and permissions to users and service accounts based on their responsibilities.
- Grant minimum privileges to users and service accounts, limiting their access to only what is necessary.

**NEW QUESTION # 29**
You are working on a Kubernetes cluster that hosts an application that interacts With sensitive data. You need to perform a static analysis of the application's container image to identify potential security vulnerabilities before deploying it to the cluster.

**Answer:**

Explanation:
Solution (Step by Step) :
1. cnoose a Static Analysis Tool:
- Select a suitable static analysis tool for container images. Some popular options include:
- Trivy: [https://aquasecurity.github.io/trivy/](https://aquasecurity.github.io/trivy/)
- Snyk: [https://snyk.io/](https://snyk.io/)
- Anchore Engine: [https://anchore.com/l(https://anchore.com/)
2 Install and Configure the Tool:
- Install the chosen tool on your machine or integrate it into your CI/CD pipeline.
- Configure the tool to scan the container image for vulnerabilities.
3. Scan the Container Image:
- Use the tool's command-line interface or API to scan the container image.
- Provide the image name or tag as input to the tool.
4. Analyze the Results:
- The tool will generate a report detailing the identified vulnerabilities.
- Review the report and prioritize remediation actions based on the severity and impact of the vulnerabilities.
- Use the tool's features to track the status of vulnerabilities and their remediation.

**NEW QUESTION # 30**
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