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## Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q52-Q57):

### NEW QUESTION # 52

#### SIMULATION

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.-

ETCDCTL\_API=3 etcdctl get /registry/secrets/default/cks-secret --cacert="ca.crt" --cert="server.crt" --key="server.key" 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.

#### Answer:

Explanation:

See the Explanation below

ETCD secret encryption can be verified with the help of etcdctl command line utility.

ETCD secrets are stored at the path /registry/secrets/\$namespace/\$secret on the master node.

The below command can be used to verify if the particular ETCD secret is encrypted or not.

```
# ETCDCTL_API=3 etcdctl get /registry/secrets/default/secret1 [...] | hexdump -C
```

### NEW QUESTION # 53

You are building a microservice architecture on Kubernetes- You are using Docker images from a public registry for your applications. One of the microservices is responsible for managing sensitive user data. To minimize the base image footprint and enhance security, you need to create a custom base image that is as minimal as possible while still containing the required dependencies for your service.

What are the steps you would take to create a custom base image for this microservice? How would you ensure the custom base image is secure, and how would you incorporate it into your deployment process? Provide a step-by-step guide with code examples.

#### Answer:

Explanation:

Solution (Step by Step) :

1. Choose a Minimal Base Image:

- Select a base image like Alpine Linux, which is known for its small size and security features.

- Use a multi-stage build to minimize the size of the final image.

- Example:

docket-file

```
FROM alpine:3.16 as builder
```

```
# Install required dependencies
```

```
RUN apk update && apk add --no-cache python3 python3-dev build-base
```

2. Security Best Practices: - Use a non-root user inside the container. - Enable security options in your Dockerfile like '-no-cache' to minimize potential vulnerabilities. - Harden the base image: - Remove unnecessary packages and services. - Disable unnecessary ports and protocols. - Set appropriate permissions for files and directories. - Example: dockeffle FROM alpine:3.16 as builder USER nonrootuser RUN apk update && apk add 0--no-cache python3 python3-dev build-base # ... rest of the Dockerfile 3.

Deployment Process: - Build the custom base image. - Push the base image to a private registry. - Update the deployment YAML file to use the new base image. - Example:

4. Testing and Monitoring: - Regularly scan the base image for vulnerabilities. - Monitor the container for suspicious activity - Employ security tools like Falco and Clair-

### NEW QUESTION # 54

You must complete this task on the following cluster/nodes: Cluster: immutable-cluster Master node: master1 Worker node: worker1 You can switch the cluster/configuration context using the following command:

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

Context: It is best practice to design containers to be stateless and immutable.

Task:

Inspect Pods running in namespace prod and delete any Pod that is either not stateless or not immutable.

Use the following strict interpretation of stateless and immutable:

1. Pods being able to store data inside containers must be treated as not stateless.

Note: You don't have to worry whether data is actually stored inside containers or not already.

2. Pods being configured to be privileged in any way must be treated as potentially not stateless or not immutable.

### Answer:

Explanation:

```
k get pods -n prod
```

```
k get pod <pod-name> -n prod -o yaml | grep -E 'privileged|ReadOnlyRootFileSystem' Delete the pods which do have any of these 2 properties privileged:true or ReadOnlyRootFileSystem: false
```

```
[desk@cli]$ k get pods -n prod
```

```
NAME READY STATUS RESTARTS AGE
```

```
cms 1/1 Running 0 68m
```

```
db 1/1 Running 0 4m
```

```
nginx 1/1 Running 0 23m
```

```
[desk@cli]$ k get pod nginx -n prod -o yaml | grep -E 'privileged|RootFileSystem'
```

```
{ "apiVersion": "v1", "kind": "Pod", "metadata": { "annotations": {}, "creationTimestamp": null, "labels":
```

```
{ "run": "nginx", "name": "nginx", "namespace": "prod" }, "spec": { "containers": [ { "image": "nginx", "name": "nginx", "resources":
```

```
{ }, "securityContext": { "privileged": true } }, "dnsPolicy": "ClusterFirst", "restartPolicy": "Always", "status": {} } fprivileged: {} privileged: true
```

```
[desk@cli]$ k delete pod nginx -n prod
```

```
[desk@cli]$ k get pod db -n prod -o yaml | grep -E 'privileged|RootFilesystem'
```

```
[desk@cli]$ k delete pod cms -n prod Reference: https://kubernetes.io/docs/concepts/policy/pod-security-policy/
```

```
https://cloud.google.com/architecture/best-practices-for-operating-containers Reference:
```

```
[desk@cli]$ k delete pod cms -n prod Reference: https://kubernetes.io/docs/concepts/policy/pod-security-policy/
```

```
https://cloud.google.com/architecture/best-practices-for-operating-containers
```

### NEW QUESTION # 55

#### SIMULATION

Documentation Ingress, Service, NGINX Ingress Controller

You must connect to the correct host . Failure to do so may result in a zero score.

```
[candidate@base] $ ssh cks000032
```

Context

You must expose a web application using HTTPS routes.

Task

Create an Ingress resource named web in the prod namespace and configure it as follows:

- . Route traffic for host web.k8s.local and all paths to the existing Service web

- . Enable TLS termination using the existing Secret web-cert.

- . Redirect HTTP requests to HTTPS .

You can test your Ingress configuration with the following command:

```
[candidate@cks000032]$ curl -L http://web.k8s.local
```

### Answer:

Explanation:

See the Explanation below for complete solution

Explanation:

1) Connect to the correct host

```
ssh cks000032
```

```
sudo -i
```

2) Use admin kubeconfig

```
export KUBECONFIG=/etc/kubernetes/admin.conf
```

3) Verify prerequisites (quick check)

These should already exist per task.

```
kubectl -n prod get svc web
```

```
kubectl -n prod get secret web-cert
```

```
kubectl get pods -n ingress-nginx
```

(If the ingress controller pods exist, you're good.)

#### 4) Create the Ingress resource

Create Ingress named web in namespace prod with:

host: web.k8s.local

all paths → Service web

TLS using Secret web-cert

HTTP → HTTPS redirect (NGINX)

cat <<EOF | kubectl apply -f -

apiVersion: networking.k8s.io/v1

kind: Ingress

metadata:

name: web

namespace: prod

annotations:

nginx.ingress.kubernetes.io/ssl-redirect: "true"

nginx.ingress.kubernetes.io/force-ssl-redirect: "true"

spec:

ingressClassName: nginx

tls:

- hosts:

- web.k8s.local

secretName: web-cert

rules:

- host: web.k8s.local

http:

paths:

- path: /

pathType: Prefix

backend:

service:

name: web

port:

number: 80

EOF

#### 5) Verify Ingress creation

kubectl -n prod get ingress web

kubectl -n prod describe ingress web

Confirm:

Host = web.k8s.local

TLS Secret = web-cert

Backend Service = web

#### 6) Test HTTP → HTTPS redirect

curl -L http://web.k8s.local

Expected:

Redirects to https://web.k8s.local

Returns application response over HTTPS

### NEW QUESTION # 56

You need to create a Kubernetes secret that stores a password and use that secret to access a private Docker registry during pod deployment. Describe the steps you would take to create the secret and deploy a pod using the secret to pull an image from the private registry.

#### Answer:

Explanation:

Solution (Step by Step) :

1. Create the Secret:

- Create a secret using 'kubectl create secret docker-registry my-docker-secret -docker-server=my-private-registry.com -docker-username-your-

username --docker-password=your-password --docker-email=your-email'

- Replace 'my-private-registry-com', 'your-username', 'your-password', and 'your-email' with your actual registry credentials.

2. Define the Pod Deployment:

- Define a pod deployment YAML file that references the newly created secret for pulling the image from the private registry:

- Replace 'my-private-registry-com/my-image:latest' with the actual image name and tag from your private registry.

3. Deploy the Pod: - Apply the deployment YAML using 'kubectl apply -f my-pod.yaml'. 4. Verify the Pod: - Check the pod status using 'kubectl get pods' to confirm that the pod is running and using the secret to pull the image from the private registry.

## NEW QUESTION # 57

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