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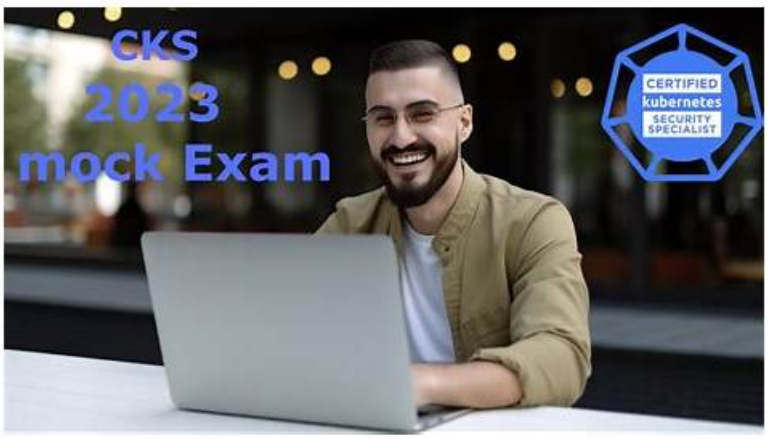

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Linux Foundation Certified Kubernetes Security Specialist (CKS) exam is a certification program designed to recognize individuals who have demonstrated knowledge and skills in securing container-based applications and Kubernetes platforms. Kubernetes has become the de-facto standard for container orchestration, and securing these environments is essential to ensure the safety and integrity of the applications running on them. The CKS certification provides organizations with the assurance that their Kubernetes platforms are being maintained and secured by professionals who have demonstrated their expertise in this area.

Achieving the CKS Certification demonstrates that an IT professional has mastered advanced Kubernetes security concepts and can effectively secure Kubernetes clusters in production environments. Certified Kubernetes Security Specialist (CKS) certification is recognized by the Cloud Native Computing Foundation (CNCF), which governs the Kubernetes project. As Kubernetes continues to be adopted by organizations, the need for Kubernetes security specialists will likely increase, making the CKS certification a valuable asset for IT professionals looking to advance their careers in this field.

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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q23-Q28):

NEW QUESTION # 23
Use the kubesec docker images to scan the given YAML manifest, edit and apply the advised changes, and passed with a score of 4 points.
kubesec-test.yaml
apiVersion: v1
kind: Pod
metadata:
name: kubesec-demo
spec:
containers:

- name: kubesec-demo
image: gcr.io/google-samples/node-hello:1.0
securityContext:
readOnlyRootFilesystem: true
Hint: docker run -i kubesec/kubesec:512c5e0 scan /dev/stdin < kubesec-test.yaml

Answer:

Explanation:
kubesec scan k8s-deployment.yaml
cat <<EOF > kubesec-test.yaml
apiVersion: v1
kind: Pod
metadata:
name: kubesec-demo
spec:
containers:
- name: kubesec-demo
image: gcr.io/google-samples/node-hello:1.0
securityContext:
readOnlyRootFilesystem: true
EOF
kubesec scan kubesec-test.yaml
docker run -i kubesec/kubesec:512c5e0 scan /dev/stdin < kubesec-test.yaml kubesec http 8080 &
[1] 12345
{"severity":"info","timestamp":"2019-05-12T11:58:34.662+0100","caller":"server/server.go:69","message":"Starting HTTP server on port 8080"} curl -sSX POST --data-binary @test/asset/score-0-cap-sys-admin.yml http://localhost:8080/scan
[
{
"object": "Pod/security-context-demo.default",
"valid": true,
"message": "Failed with a score of -30 points",
"score": -30,
"scoring": {
"critical": [
{
"selector": "containers[] .securityContext .capabilities .add == SYS_ADMIN",
"reason": "CAP_SYS_ADMIN is the most privileged capability and should always be avoided"
},
{
"selector": "containers[] .securityContext .runAsNonRoot == true",
"reason": "Force the running image to run as a non-root user to ensure least privilege"
},
// ...

NEW QUESTION # 24
Imagine a scenario where you nave multiple Kubernetes clusters. You want to establish a secure supply chain by allowing only images from a centralized image registry to be deployed across all clusters. Explain how you can achieve this.

Answer:

Explanation:
Solution (Step by Step) :
1. Centralized Image Registry:
- Set up a centralized image registry that will serve as the single source of truth for all container images-
- Some popular choices include:
- Docker Hub: A public registry with a free tier for personal and open-source projects.
- Harbor: An open-source registry with features like vulnerability scanning and access control.
- Google Container Registry (GCR): A registry integrated with Google Cloud Platform, offering features like image signing and storage management.

2. Configure Cluster Access:
- Ensure all your Kubernetes clusters have access to this centralized image registry.
- For private registries, configure authentication and authorization mechanisms to control which clusters have access to which images.
3. Implement Image Pull Policies:
- On each cluster, set the 'imagePullPolicy' to 'Always' for deployments using images from the centralized registry. This ensures that every pod pulls
the image directly from the registry, avoiding reliance on cached images.
- Example (for a deployment using 'nginx:latest' from a private registry):
4. Enable Image Signing (Optional): - Implement image signing to further enhance security - Sign images in the centralized registry using a trusted key - Configure Kubernetes clusters to only allow images signed with the trusted key to be deployed. 5. Monitoring and Auditing: - Implement robust monitoring and auditing to track image pulls, deployments, and any potential vulnerabilities. 6. Consider a Software Supply Chain Management (SSCM) Tool: - Use a dedicated SSCM tool to manage the entire image lifecycle, including vulnerability scanning, policy enforcement, and access control. Tools like JFrog Xray or Aqua Security can help automate this process.

NEW QUESTION # 25
SIMULATION
Create a RuntimeClass named gvisor-rc using the prepared runtime handler named runsc.
Create a Pods of image Nginx in the Namespace server to run on the gVisor runtime class

Answer:

Explanation:
Install the Runtime Class for gVisor
{ # Step 1: Install a RuntimeClass
cat <<EOF | kubectl apply -f -
apiVersion: node.k8s.io/v1beta1
kind: RuntimeClass
metadata:
name: gvisor
handler: runsc
EOF
}
Create a Pod with the gVisor Runtime Class
{ # Step 2: Create a pod
cat <<EOF | kubectl apply -f -
apiVersion: v1
kind: Pod
metadata:
name: nginx-gvisor
spec:
runtimeClassName: gvisor
containers:
- name: nginx
image: nginx
EOF
}
Verify that the Pod is running
{ # Step 3: Get the pod
kubectl get pod nginx-gvisor -o wide
}

NEW QUESTION # 26
You are managing a Kubernetes cluster With various security measures in place. You have a deployment named 'my-apps that uses the default service account for its pods. To ensure that only authorized users can access the pods running in the 'my-app' deployment, implement a security policy that restricts access to tne pods based on user identity.

Answer:

Explanation:
Solution (Step by Step) :
1. Create a Pod Security Policy (PSP):
- Define a PSP named 'restricted-pod-access' that allows only authenticated users with specific permissions to access the pods.
- Use 'runAsUser' to specify that pods must run as a non-root user, 'readOnlyRootFilesystem' to prevent modifications to the root filesystem, and 'allowPrivilegeEscalations to disable privilege escalation.
2. Create a Role Binding: - Create a role binding named my-app-access-binding' that associates the 'my-app' deployment's service account with the 'restricted-pod-access' PSP.
3. Update the Deployment - Update the 'my-app' deployment to use the default service account and add the 'securityContext' to the 'podSpec' with the 'securityContext.pspName' set to 'restricted-pod-access'.
4. Test and Verify: - Verot that only authorized users with appropriate permissions can access pods in the 'my-app' deployment. - This step ensures that the security policy is correctly implemented and enforced.

NEW QUESTION # 27
You are running a critical application within a Kubernetes cluster. Your application relies on a base image with several unnecessary packages installed. These packages increase the attack surface of your application and make it more vulnerable to exploits. You want to minimize the base image footprint to enhance the security posture of your application. Explain how you can achieve this in a production environment.

Answer:

Explanation:
Solution (Step by Step) :
1. Identify unnecessary Packages:
- Use tools like 'alpine-pkg-info' or 'dpkg -l' to list installed packages within the base image.
- Analyze the package list to identify packages that are not strictly required for your application's functionality.
- Example: If you are running a Node.js application, you might identity development tools like 'gcc' or 'make' as unnecessary.
2. Create a Custom Base Image:
- Docker-file: Start by creating a Dockefflle that inherits from a minimal base image like 'alpine:latest or 'ubuntu:latest' (depending on your application's requirements).
- Install Essential Packages: Include only the absolutely necessary packages for your application in the Dockerfile. Use the 'apt-get install' (for Debian/lJbuntu) or 'apk add' (for Alpine) commands to install these packages.
- Example Dockerfile:
FROM alpine:latest
Install necessary packages
RIJN apk add --no-cache bash openssl curl nodejs npm
Copy your application code
COPY _ /app
Set working directory and execute start script
WORKDIR 'app
CMD ["npm", "start"]
3. Test the Custom Image:
- Build the custom image using 'docker build -t custom-base-image
- Create a container from the custom image and run your application to ensure everything works correctly. This step is critical to catch any compatibility issues before deploying to your Kubernetes cluster.
4. Update Your Deployments:
- Modify your Deployment YAML files to use the custom base image instead of the original image. Update the 'image' field to reference the custom base image tag.
- Example:
5. Deploy the Updated Application: - Use 'kubectl apply -f deployment_yaml to update your deployment with the new image- - Monitor the deployment to ensure a successful rollout with your minimal base image. 6. Regular - Periodically review your application's requirements and ensure that the base image still meets your needs. -As you add new features or update dependencies, you might need to add additional packages to the base image. - Keep the image as minimal as possible and use the least-privilege principle when selecting packages.

NEW QUESTION # 28
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