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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q12-Q17):

NEW QUESTION # 12
You are managing a Kubernetes cluster for a critical application. The cluster is exposed to the internet and uses a service account with default permissions- You need to implement a security strategy that limits the privileges of the service account to only the necessary permissions to run the application.

Answer:

Explanation:
Solution (Step by Step):
1. Identify Necessary Permissions: Analyze the application's requirements to identify the minimal permissions required by the service account. This might include access to specific resources, such as pods, services, and config maps.
2. Create a Custom Role: Define a custom role using Role or ClusterRole in Kubernetes-
- Create a YAML file for the Custom Role:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: nginx-app-role
  namespace: default
rules:
- apiGroups: ["apps", "core", "extensions"]
  resources: ["deployments", "pods", "services", "configmaps"]
  verbs: ["get", "list", "watch", "create", "update", "delete", "patch"]
```

3. Bind the Role to Service Account Create a ROIeBinding or ClusterR01eBinding to associate tne custom role witn the service account.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: nginx-app-role-binding
  namespace: default
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: nginx-app-role
subjects:
- kind: ServiceAccount
  name: nginx-sa
  namespace: default
```

4. Deploy the Role and ROIeBinding: Apply the YAML files using 'kubectl apply -f role.yaml and 'kubectl apply -f rolebinding.yamr
Note: This is a basic example. You might need to refine the permissions based on your application's specific requirements.

NEW QUESTION # 13
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 # 14
You are using a managed Kubernetes offering like Google Kubernetes Engine (GKE)- Implement a process to verify the integrity of the GKE platform binaries and components.

Answer:

Explanation:
Solution (Step by Step):
1. Enable node auto-upgrade: Configure your GKE cluster to automatically upgrade nodes to the latest stable version. This ensures that security updates and bug fixes are applied promptly.
bash
gcloud container clusters update my-cluster -release-channel regular
2. Use the gcloud CLI to inspect cluster components: Use the 'gcloud container clusters describe' command to retrieve information about your GKE cluster, including the Kubernetes version, node image, and control plane version. Verify that these versions are up-to-date and consistent with your expectations.
bash
gcloud container clusters describe my-cluster
3. Review GKE release notes: Regularly review the GKE release notes ([https://cloud.google.com/kubernetes-engine/docs/release-notes]
(https://www.google.com/url?sa=E&source=gmail&q=https://cloud.google.com/kubernetes.engine/docs/release-notes)) to stay informed about security updates, bug fixes, and new features.
4. Enable GKE security features: Utilize GKE security features like Shielded GKE Nodes, Container-optimized OS security hardening, and Binary Authorization to enhance the security of your cluster.
5. Monitor GKE security advisories: Subscribe to Google Cloud security advisories and bulletins to stay informed about any potential vulnerabilities or security issues affecting GKE.

NEW QUESTION # 15
You're working on a Kubernetes cluster where container images are pulled from a private registry. Security best practices dictate that you should configure the cluster to only allow image pulls from authorized registries. Explain how you would enforce this policy using image admission controllers and provide a practical example of an admission control configuration.

Answer:

Explanation:
Solution (Step by Step) :
1. Enable Image Admission Controller:
- Install the Admission Controller. The 'ImagePolicyWebhook' admission controller enforces policies on container images. You can install it as part of your Kubernetes deployment or using a Helm chart.
2. Create a Policy Configuration:
- Define the Policy: Use a YAML file to define the rules for the admission controller. This policy will specify the allowed registries.
- Example Policy Configuration:

```yaml
apiVersion: admissionregistration.k8s.io/v1
kind: ValidatingWebhookConfiguration
metadata:
  name: imagepolicy-webhook
webhooks:
- name: imagepolicy.example.com
  rules:
  - apiGroups: ["apps", "extensions", "batch"] # Example: Deployments, DaemonSets, Jobs
    apiVersions: ["v1", "v1beta1", "v1beta2"]
    resources: ["pods", "deployments", "daemonsets", "jobs"]
    operations: ["CREATE", "UPDATE"]
  admissionReviewVersions: ["v1"]
  clientConfig:
    service:
      name: imagepolicy-webhook
      namespace: default
      path: /validate
  failurePolicy: Fail # Fail requests if the policy doesn't match
  sideEffects: None # Don't mutate requests
  timeoutSeconds: 2 # Timeout for requests
  # Additional settings based on the specific admission controller
```

3. Configure the Service: - Create a Service: Create a Kubernetes service that exposes the admission controllers endpoint. - Example Service Configuration:

```yaml
apiVersion: v1
kind: Service
metadata:
  name: imagepolicy-webhook
  namespace: default
spec:
  selector:
    app: imagepolicy-webhook
  ports:
  - port: 443
    targetPort: 8443
```

4. Deploy the Policy Engine: - Create a Deployment: Create a Kubernetes deployment to run the policy engine (e.g., a container image with the admission controller logic). - Example Deployment Configuration:

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: imagepolicy-webhook
  namespace: default
spec:
  replicas: 1
  selector:
    matchLabels:
      app: imagepolicy-webhook
  template:
    metadata:
      labels:
        app: imagepolicy-webhook
    spec:
      containers:
      - name: imagepolicy-webhook
        image:
        ports:
```

5. Verify the Configuration: - Test Image Pulls: Attempt to pull images from both authorized and unauthorized registries. - Monitor tor Policy Enforcement: Observe the admission controllers logs to confirm that it iS successtully blocking pulls from unauthorized registries. - Validate Security: Ensure that the policy effectively prevents the use of unauthorized container image sources, enhancing the clusters security posture.

NEW QUESTION # 16

You are using Kubesec for static analysis of Kubernetes manifests. You have a Deployment YAML file containing a container image that pulls from a public registry. The analysis reveals a potential vulnerability: the container image is outdated. How would you use

Kubesec to identify this vulnerability and what steps would you take to remediate it?

Answer:

Explanation:
Solution (Step by Step) :
1. Run Kubesec Analysis:
- Use the 'kubesec' command to analyze your Deployment YAML file:
bash
kubesec scan your-deploymentyaml
- Kubesec will provide a detailed report of potential security vulnerabilities and best practice recommendations.
2. Identify Outdated Image:
- Review the Kubesec report to identify the warning related to the outdated container image. Kubesec might provide specific information like the image
name, tag, and the reason it's considered outdated (e.g., known vulnerabilities, end-of-life support).
3. Check for Updates:
- Check the official repository or documentation of the container image for newer versions.
- Look for updated tags that address the identified vulnerability or have updated security patches.
4. Update Deployment YAML:
- Modify your Deployment YAML file to use the newer, updated container image.
- Example (assuming the updated image is 'nginx:1 .20.1'):

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  template:
    spec:
      containers:
      - name: nginx
        image: nginx:1.20.1
      # ... other deployment settings
```

5. Re-run Kubesec Analysis: - After updating the Deployment YAML, run Kubesec analysis again. This will verify that the vulnerability is resolved and that the new container image is properly configured.

NEW QUESTION # 17
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