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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample

Questions (Q36-Q41):

NEW QUESTION # 36
You can switch the cluster/configuration context using the following command: [desk@cli] $ kubectl config use-context dev Context: A CIS Benchmark tool was run against the kubeadm created cluster and found multiple issues that must be addressed. Task: Fix all issues via configuration and restart the affected components to ensure the new settings take effect. Fix all of the following violations that were found against the API server: 1.2.7 authorization-mode argument is not set to AlwaysAllow FAIL 1.2.8 authorization-mode argument includes Node FAIL 1.2.7 authorization-mode argument includes RBAC FAIL Fix all of the following violations that were found against the Kubelet: 4.2.1 Ensure that the anonymous-auth argument is set to false FAIL 4.2.2 authorization-mode argument is not set to AlwaysAllow FAIL (Use Webhook autumn/authz where possible) Fix all of the following violations that were found against etcd: 2.2 Ensure that the client-cert-auth argument is set to true

Answer:

Explanation:
worker1 $ vim /var/lib/kubelet/config.yaml
anonymous:
enabled: true #Delete this
enabled: false #Replace by this
authorization:
mode: AlwaysAllow #Delete this
mode: Webhook #Replace by this
worker1 $ systemctl restart kubelet. # To reload kubelet config ssh to master1 master1 $ vim /etc/kubernetes/manifests/kube-apiserver.yaml - -- authorization-mode=Node,RBAC master1 $ vim /etc/kubernetes/manifests/etcd.yaml - --client-cert-auth=true Explanation ssh to worker1 worker1 $ vim /var/lib/kubelet/config.yaml apiVersion: kubelet.config.k8s.io/v1beta1 authentication:
anonymous:
enabled: true #Delete this
enabled: false #Replace by this
webhook:
cacheTTL: 0s
enabled: true
x509:
clientCAFile: /etc/kubernetes/pki/ca.crt
authorization:
mode: AlwaysAllow #Delete this
mode: Webhook #Replace by this
webhook:
cacheAuthorizedTTL: 0s
cacheUnauthorizedTTL: 0s
cgroupDriver: systemd
clusterDNS:
- 10.96.0.10
clusterDomain: cluster.local
cpuManagerReconcilePeriod: 0s
evictionPressureTransitionPeriod: 0s
fileCheckFrequency: 0s
healthzBindAddress: 127.0.0.1
healthzPort: 10248
httpCheckFrequency: 0s
imageMinimumGCAge: 0s
kind: KubeletConfiguration
logging: {}
nodeStatusReportFrequency: 0s
nodeStatusUpdateFrequency: 0s
resolvConf: /run/systemd/resolve/resolv.conf
rotateCertificates: true
runtimeRequestTimeout: 0s
staticPodPath: /etc/kubernetes/manifests
streamingConnectionIdleTimeout: 0s
syncFrequency: 0s
volumeStatsAggPeriod: 0s

worker1 $ systemctl restart kubelet. # To reload kubelet config ssh to master1 master1 $ vim /etc/kubernetes/manifests/kube-apiserver.yaml

master1 $ vim /etc/kubernetes/manifests/etcd.yaml

NEW QUESTION # 37
You are deploying a critical application on your Kubernetes cluster. You want to ensure that only certified and trusted container images are allowed to be deployed- How can you implement an Image Signature Verification process to ensure that all images pulled from your Docker registry are signed with a trusted key?

Answer:

Explanation:
Solution (Step by Step) :
1. Generate Key Pair: Generate a public and private key pair for signing container images.
bash
openssl genrsa -out private-key 2048
openssl rsa -pubout -in private-key -out public-key
2. Sign Container Image: use the private key to sign the container image-
bash
docker build -t my-app:latest
cosign Sign --key private.key my-app:latest
3. Push Signed Image: Push the signed image to your Docker registry.
bash
docker push my-app:latest
4. Configure Kubernetes Image Policy: Configure a Kubernetes ImagePolicyWebhook using a tool like Admission Webhook Controller to enforce image signature verification. The webhook can be configured to check for the presence of a valid signature using the public key and to reject images without a valid signature.

5. Deploy Image Policy Webhook: Deploy the ImagePolicyWebhook configuration using 'kubectl apply -f image-policy-webhook.yamr 6. Test Image Signature Verificatiom Create a new Deployment using an unsigned image. The deployment should be rejected by the webhook.

Note: This is a basic example. You can configure more advanced image signature verification policies based on your security needs and requirements. For example, you can enforce specific image signing policies, use multiple keys, and configure different failure policies.

NEW QUESTION # 38
Your Kubernetes cluster utilizes a container registry hosted on-premise. You want to implement a mechanism to automatically scan images stored in this registry for known vulnerabilities before they are deployed to the cluster. Describe the steps involved in setting up this vulnerability scanning process.

Answer:

Explanation:
Solution (Step by Step) :
1. Choose a Vulnerability Scanner: Select a suitable vulnerability scanner that integrates with your on-premise container registry_ Some popular options include Anchoret Clair, and Trivy.
2. Integrate the Scanner: Configure the chosen scanner to access your on-premise container registry. This might involve providing credentials or setting up network access.
3. Configure Scanning Triggers: Set up triggers within your container registry or CI/CD pipeline that initiate a vulnerability scan whenever a new image is pushed to the registry.
4. Define Scan Policies: Establish scan policies that define the severity levels of vulnerabilities to be flagged and the actions to be taken (e.g., block deployment, send notifications).
5. Integrate with Kubernetes: Integrate the vulnerability scanner with your Kubernetes cluster. This might involve using a Kubernetes admission controller or writing custom scripts to prevent deployments with vulnerable images.
6. Test and Validate: Test the vulnerability scanning process by pushing a known vulnerable image to your registry and verifying that it is flagged and blocked from deployment.

NEW QUESTION # 39
You can switch the cluster/configuration context using the following command: [desk@cli] $ kubectl config use-context qa Context: A pod fails to run because of an incorrectly specified ServiceAccount Task: Create a new service account named backend-qa in an existing namespace qa, which must not have access to any secret. Edit the frontend pod yaml to use backend-qa service account Note: You can find the frontend pod yaml at /home/cert_masters/frontend-pod.yaml

Answer:

Explanation:
[desk@cli] $ k create sa backend-qa -n qa sa/backend-qa created [desk@cli] $ k get role,rolebinding -n qa No resources found in qa namespace. [desk@cli] $ k create role backend -n qa --resource pods,namespaces,configmaps --verb list # No access to secret [desk@cli] $ k create rolebinding backend -n qa --role backend --serviceaccount qa:backend-qa [desk@cli] $ vim /home/cert_masters/frontend-pod.yaml apiVersion: v1 kind: Pod metadata:
name: frontend
spec:
serviceAccountName: backend-qa # Add this
image: nginx
name: frontend
[desk@cli] $ k apply -f /home/cert_masters/frontend-pod.yaml pod created
[desk@cli] $ k create sa backend-qa -n qa serviceaccount/backend-qa created [desk@cli] $ k get role,rolebinding -n qa No resources found in qa namespace. [desk@cli] $ k create role backend -n qa --resource pods,namespaces,configmaps --verb list role.rbac.authorization.k8s.io/backend created [desk@cli] $ k create rolebinding backend -n qa --role backend --serviceaccount qa:backend-qa rolebinding.rbac.authorization.k8s.io/backend created [desk@cli] $ vim /home/cert_masters/frontend-pod.yaml apiVersion: v1 kind: Pod metadata:
name: frontend
spec:
serviceAccountName: backend-qa # Add this
image: nginx
name: frontend
[desk@cli] $ k apply -f /home/cert_masters/frontend-pod.yaml pod/frontend created https://kubernetes.io/docs/tasks/configure-pod-container/configure-service-account/

NEW QUESTION # 40
use the Trivy to scan the following images,

- A. 1. amazonlinux:1

Answer: A

Explanation:
2. k8s.gcr.io/kube-controller-manager:v1.18.6
Look for images with HIGH or CRITICAL severity vulnerabilities and store the output of the same in /opt/trivy-vulnerable.txt

NEW QUESTION # 41
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