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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q30-Q35):

NEW QUESTION # 30

Answer: A

NEW QUESTION # 31

Answer: A

NEW QUESTION # 32

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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q31-Q36):

NEW QUESTION # 31
Create a PSP that will only allow the persistentvolumeclaim as the volume type in the namespace restricted.
Create a new PodSecurityPolicy named prevent-volume-policy which prevents the pods which is having different volumes mount apart from persistentvolumeclaim.
Create a new ServiceAccount named psp-sa in the namespace restricted.
Create a new ClusterRole named psp-role, which uses the newly created Pod Security Policy prevent-volume-policy Create a new ClusterRoleBinding named psp-role-binding, which binds the created ClusterRole psp-role to the created SA psp-sa.
Hint:
Also, Check the Configuration is working or not by trying to Mount a Secret in the pod maifest, it should get failed.
POD Manifest:
apiVersion: v1
kind: Pod
metadata:
name:
spec:
containers:
- name:
image:
volumeMounts:
- name:
mountPath:
volumes:
- name:
secret:
secretname:

Answer:

Explanation:
apiVersion: policy/v1beta1
kind: PodSecurityPolicy
metadata:
name: restricted
annotations:
seccomp.security.alpha.kubernetes.io/allowedProfileNames: 'docker/default,runtime/default'
apparmor.security.beta.kubernetes.io/allowedProfileNames: 'runtime/default'
seccomp.security.alpha.kubernetes.io/defaultProfileName: 'runtime/default'
apparmor.security.beta.kubernetes.io/defaultProfileName: 'runtime/default' spec:
privileged: false
Required to prevent escalations to root.
allowPrivilegeEscalation: false
This is redundant with non-root + disallow privilege escalation,
but we can provide it for defense in depth.
requiredDropCapabilities:
- ALL
Allow core volume types.
volumes:
- 'configMap'
- 'emptyDir'
- 'projected'
- 'secret'
- 'downwardAPI'
Assume that persistentVolumes set up by the cluster admin are safe to use.
- 'persistentVolumeClaim'
hostNetwork: false
hostIPC: false
hostPID: false

runAsUser:
Require the container to run without root privileges.
rule: 'MustRunAsNonRoot'
seLinux:
This policy assumes the nodes are using AppArmor rather than SELinux.
rule: 'RunAsAny'
supplementalGroups:
rule: 'MustRunAs'
ranges:
Forbid adding the root group.
- min: 1
max: 65535
fsGroup:
rule: 'MustRunAs'
ranges:
Forbid adding the root group.
- min: 1
max: 65535
readOnlyRootFilesystem: false

NEW QUESTION # 32
A container image scanner is set up on the cluster.
Given an incomplete configuration in the directory
/etc/kubernetes/confcontrol and a functional container image scanner with HTTPS endpoint https://test-server.local.8081/image_policy

- A. 1. Enable the admission plugin.

Answer: A

Explanation:
2. Validate the control configuration and change it to implicit deny.
Finally, test the configuration by deploying the pod having the image tag as latest.

NEW QUESTION # 33
You have a Kubernetes cluster with a deployment running a critical application. You need to restrict inbound network access to the pods in this deployment to only allow traffic from a specific service within the cluster. How would you achieve this using NetworkPolicy?

Answer:

Explanation:
Solution (Step by Step):
1. Create a NetworkP01icy: Define a NetworkPoliCY resource that specifies the allowed ingress traffic.
- Name: 'allow-service-access (you can choose any name)
- Namespace: The same namespace as the deployment you want to restrict.
- Spec:
- PodSeIector: This should match the pods in your deployment. You can use labels to select the pods.
- Ingress: This defines the allowed incoming traffic.
- From: Define the source of the allowed traffic.
- PodSeIector: If the traffic is coming from another deployment within the cluster, you can define the pod selector for that deployment.
- Namespaceselector: It the traffic is coming trom a service within the cluster, you can define the namespace selector.
- IPBIock: If the traffic is coming from a specific IP range, you can use 'IP310ck' to define that.
- Ports: This defines the specific ports that are allowed.
- You can either specify individual (e.g., 'tcp:80') or a port range (e.g., 'tcp:80-8080').
2. Apply the NetworkPolicy:
- Use 'kubectl apply -f networkpolicy.yamr to create the NetworkPolicy.
Example YAML for NetworkPolicy:

- The NetworkP01icy allows inbound traffic from any pod in the namespace With label - This traffic can access port 80 (TCP) on the pods with the label 'app: Important Notes: - NetworkPolicies are enforced at the pod level. If no NetworkPolicy is defined, all traffic is allowed by default. - If you need to allow traffic from multiple sources, you can define multiple 'ingress' rules within the NetworkPolicy. - Make sure you have sufficient understanding of Kubernetes Networking and NetworkPolicy concepts before implementing this.

NEW QUESTION # 34
SIMULATION
You must connect to the correct host . Failure to do so may
result in a zero score.
[candidato@base] $ ssh cks000023
Task
Analyze and edit the Dockerfile located at /home/candidate/subtle-bee/build/Dockerfile, fixing one instruction present in the file that is a prominent security/best-practice issue.
Do not add or remove instructions; only modify the one existing instruction with a security/best-practice concern.
Do not build the Dockerfile, Failure to do so may result in running out of storage and a zero score.
Analyze and edit the given manifest file /home/candidate/subtle-bee/deployment.yaml, fixing one fields present in the file that are a prominent security/best-practice issue.
Do not add or remove fields; only modify the one existing field with a security/best-practice concern.
Should you need an unprivileged user for any of the tasks, use user nobody with user ID 65535.

Answer:

Explanation:
See the Explanation below for complete solution
Explanation:
0) Connect to the correct host
ssh cks000023
sudo -i
PART A - Fix ONE prominent Dockerfile security/best-practice issue
1) Open the Dockerfile
vi /home/candidate/subtle-bee/build/Dockerfile
2) Find the "most obvious" security/best-practice problem and modify ONLY THAT ONE instruction Use / search in vi to quickly find candidates:
Candidate 1 (very common): USER root (or no USER but a USER 0)
Search:
/USER
If you see:
USER root
Change that single instruction to:
USER 65535
(or USER nobody if that exact word is already used in the file-but the task explicitly allows UID 65535, so USER 65535 is safest.)
 This is one-instruction change and is a top-tier best practice.
Candidate 2 (very common): FROM <image>:latest
Search:
/FROM
If you see something like:
FROM nginx:latest
Change ONLY that line to a pinned tag (example):

FROM nginx:1.25.5
(Any non-latest pinned version is the point. Don't add a digest line; just modify the existing FROM line.) Candidate 3: ADD http://... (remote URL download) Search:
/ADD
If you see remote URL usage like:
ADD https://example.com/app.tar.gz /app/
Change that single instruction to COPY only if it's copying local files.
If it's a remote URL, the more "correct" fix would normally be using curl with verification, but that would require adding instructions (not allowed).
So in this exam constraint, do NOT pick this unless it's actually a local add like:
ADD . /app
Then change just the word:
COPY . /app
3) Save and exit
:wq
Don't run docker build (task forbids building).
PART B - Fix ONE prominent security/best-practice issue in the Deployment manifest
4) Open the manifest
vi /home/candidate/subtle-bee/deployment.yaml
5) Change ONLY ONE existing field that is a clear security issue
Use / search in vi for the usual "bad fields":
Option 1 (most common): running as root
Search:
/runAsUser
If you see:
runAsUser: 0
Change that one existing field value to:
runAsUser: 65535
 This is a single-field change and matches the prompt hint.
Option 2: privileged container
Search:
/privileged
If you see:
privileged: true
Change only that value to:
privileged: false
Option 3: allow privilege escalation
Search:
/allowPrivilegeEscalation
If you see:
allowPrivilegeEscalation: true
Change only that value to:
allowPrivilegeEscalation: false
Option 4: writable root filesystem
Search:
/readOnlyRootFilesystem
If you see:
readOnlyRootFilesystem: false
Change only that value to:
readOnlyRootFilesystem: true
Option 5: image uses :latest
Search:
/image:
If you see:
image: something:latest
Change only that value to a pinned tag, e.g.:
image: something:1.2.3
6) Save and exit
:wq
What to pick (fast decision rule)
If you see run as root in either file, that's usually the highest scoring / most "prominent" security issue.

Dockerfile: USER root → USER 65535
Deployment: runAsUser: 0 → runAsUser: 65535
Those are perfect because you only modify one line/field and it matches the hint.

NEW QUESTION # 35
SIMULATION
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

- A. Send us the Feedback on it.

Answer: A

NEW QUESTION # 36
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