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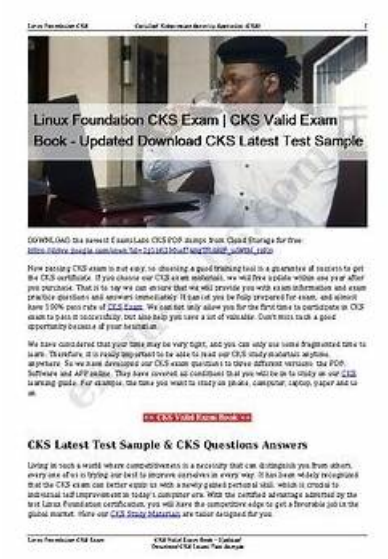

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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q63-Q68):

NEW QUESTION # 63
Using the runtime detection tool Falco, Analyse the container behavior for at least 20 seconds, using filters that detect newly spawning and executing processes in a single container of Nginx.

- A. store the incident file art /opt/falco-incident.txt, containing the detected incidents. one per line, in the format

Answer: A

Explanation:
[timestamp],[uid],[processName]

NEW QUESTION # 64
SIMULATION
Documentation
ServiceAccount, Deployment,
Projected Volumes
You must connect to the correct host . Failure to do so may
result in a zero score.
[candidate@base] $ ssh cks000033
Context
A security audit has identified a Deployment improperly handling service account tokens, which could lead to security vulnerabilities.
Task
First, modify the existing ServiceAccount stats-monitor-sa in the namespace monitoring to turn off automounting of API credentials.
Next, modify the existing Deployment stats-monitor in the namespace monitoring to inject a ServiceAccount token mounted at /var/run/secrets/kubernetes.io/serviceaccount/token.
Use a Projected Volume named token to inject the ServiceAccount token and ensure that it is mounted read-only.
The Deployment's manifest file can be found at /home/candidate/stats-monitor/deployment.yaml.

Answer:

Explanation:
See the Explanation below for complete solution
Explanation:
1) Connect to correct host
ssh cks000033
sudo -i
export KUBECONFIG=/etc/kubernetes/admin.conf
2) Patch the ServiceAccount to disable automounting
Task: turn off automounting of API credentials for stats-monitor-sa in monitoring.
kubectl -n monitoring patch sa stats-monitor-sa -p '{"automountServiceAccountToken": false}' Verify:
kubectl -n monitoring get sa stats-monitor-sa -o yaml | grep -i automount
3) Edit the Deployment manifest file
Task says to modify the manifest at:
/home/candidate/stats-monitor/deployment.yaml
vi /home/candidate/stats-monitor/deployment.yaml
4) In the Deployment, ensure it uses the ServiceAccount AND inject token via Projected Volume
4.1 Make sure Deployment uses the SA
Under:
spec: -> template: -> spec:
ensure:
serviceAccountName: stats-monitor-sa
(If it already exists, leave it; don't add extra changes beyond requirements.)
4.2 Add a projected volume named token
Under:
spec: -> template: -> spec: -> volumes:
add (or modify existing volume if present) so it is exactly:

- name: token
projected:
sources:
- serviceAccountToken:
path: token
This creates the file token inside the mounted directory, so the final path becomes:
/var/run/secrets/kubernetes.io/serviceaccount/token
4.3 Mount the projected volume read-only at the required location
Under the target container:
spec: -> template: -> spec: -> containers: -> (your container) -> volumeMounts:
Add:
- name: token
mountPath: /var/run/secrets/kubernetes.io/serviceaccount
readOnly: true
 This satisfies:
Projected volume name: token
Mount path: /var/run/secrets/kubernetes.io/serviceaccount/token (file inside mount) Mounted read-only
4.4 Important: Don't break default token mount behavior
Because you disabled SA automounting at the ServiceAccount level, you must explicitly mount the projected token (done above).
That's the whole point of this task.
Save and exit:
:wq
5) Apply the updated Deployment
kubectl -n monitoring apply -f /home/candidate/stats-monitor/deployment.yaml Wait rollout:
kubectl -n monitoring rollout status deployment/stats-monitor
6) Verify the token file exists in the running Pod
Get a pod name:
POD=$(kubectl -n monitoring get pods -l app=stats-monitor -o jsonpath='{.items[0].metadata.name}') echo $POD Check the token file path exists:
kubectl -n monitoring exec -it $POD -- ls -l /var/run/secrets/kubernetes.io/serviceaccount/token Optional: confirm it's mounted read-only (usually shown by mount options):
kubectl -n monitoring exec -it $POD -- mount | grep /var/run/secrets/kubernetes.io/serviceaccount
 What the examiner checks
SA stats-monitor-sa has:
automountServiceAccountToken: false
Deployment stats-monitor mounts a projected volume named token
Token file is at:
/var/run/secrets/kubernetes.io/serviceaccount/token
Mount is readOnly: true
If label selector doesn't match (-l app=stats-monitor)
Use:
kubectl -n monitoring get pods
Then set:
POD=<paste-pod-name>

NEW QUESTION # 65
SIMULATION
Create a RuntimeClass named untrusted using the prepared runtime handler named runsc.
Create a Pods of image alpine:3.13.2 in the Namespace default to run on the gVisor runtime class.

Answer:

Explanation:
See the Explanation belowExplanation:

NEW QUESTION # 66
You can switch the cluster/configuration context using the following command:
[desk@cli] $ kubectl config use-context stage

Context:
A PodSecurityPolicy shall prevent the creation of privileged Pods in a specific namespace.
Task:
1. Create a new PodSecurityPolcy named deny-policy, which prevents the creation of privileged Pods.
2. Create a new ClusterRole name deny-access-role, which uses the newly created PodSecurityPolicy deny-policy.
3. Create a new ServiceAccount named psd-denial-sa in the existing namespace development.
Finally, create a new ClusterRoleBindind named restrict-access-bind, which binds the newly created ClusterRole deny-access-role to the newly created ServiceAccount psp-denial-sa

Answer:

Explanation:
Create psp to disallow privileged container
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRole
metadata:
name: deny-access-role
rules:
- apiGroups: ['policy']
resources: ['podsecuritypolicies']
verbs: ['use']
resourceNames:
- "deny-policy"
k create sa psp-denial-sa -n development
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
metadata:
name: restrict-access-bing
roleRef:
kind: ClusterRole
name: deny-access-role
apiGroup: rbac.authorization.k8s.io
subjects:
- kind: ServiceAccount
name: psp-denial-sa
namespace: development
Explanation
master1 $ vim psp.yaml
apiVersion: policy/v1beta1
kind: PodSecurityPolicy
metadata:
name: deny-policy
spec:
privileged: false # Don't allow privileged pods!
seLinux:
rule: RunAsAny
supplementalGroups:
rule: RunAsAny
runAsUser:
rule: RunAsAny
fsGroup:
rule: RunAsAny
volumes:
- '*'
master1 $ vim cr1.yaml
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRole
metadata:
name: deny-access-role
rules:
- apiGroups: ['policy']

resources: ['podsecuritypolicies']
verbs: ['use']
resourceNames:
- "deny-policy"
master1 $ k create sa psp-denial-sa -n development
master1 $ vim cb1.yaml
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
metadata:
name: restrict-access-bing
roleRef:
kind: ClusterRole
name: deny-access-role
apiGroup: rbac.authorization.k8s.io
subjects:
Authorize specific service accounts:
- kind: ServiceAccount
name: psp-denial-sa
namespace: development
master1 $ k apply -f psp.yaml master1 $ k apply -f cr1.yaml master1 $ k apply -f cb1.yaml Reference:
https://kubernetes.io/docs/concepts/policy/pod-security-policy/ master1 $ k apply -f cr1.yaml master1 $ k apply -f cb1.yaml
master1 $ k apply -f psp.yaml master1 $ k apply -f cr1.yaml master1 $ k apply -f cb1.yaml Reference:
https://kubernetes.io/docs/concepts/policy/pod-security-policy/

NEW QUESTION # 67
SIMULATION
a. Retrieve the content of the existing secret named default-token-xxxxx in the testing namespace.
Store the value of the token in the token.txt
b. Create a new secret named test-db-secret in the DB namespace with the following content:
username: mysql
password: password@123
Create the Pod name test-db-pod of image nginx in the namespace db that can access test-db-secret via a volume at path /etc/mysql-credentials

Answer:

Explanation:
To add a Kubernetes cluster to your project, group, or instance:
Navigate to your:
Project's Operations > Kubernetes page, for a project-level cluster.
Group's Kubernetes page, for a group-level cluster.
Admin Area > Kubernetes page, for an instance-level cluster.
Click Add Kubernetes cluster.
Click the Add existing cluster tab and fill in the details:
Kubernetes cluster name (required) - The name you wish to give the cluster.
Environment scope (required) - The associated environment to this cluster.
API URL (required) - It's the URL that GitLab uses to access the Kubernetes API. Kubernetes exposes several APIs, we want the "base" URL that is common to all of them. For example, https://kubernetes.example.com rather than https://kubernetes.example.com/api/v1.
Get the API URL by running this command:
kubectl cluster-info | grep -E 'Kubernetes master|Kubernetes control plane' | awk '/http/ {print $NF}' CA certificate (required) - A valid Kubernetes certificate is needed to authenticate to the cluster. We use the certificate created by default.
List the secrets with kubectl get secrets, and one should be named similar to default-token-xxxxx. Copy that token name for use below.
Get the certificate by running this command:
kubectl get secret <secret name> -o jsonpath="{['data']['ca\.crt']}"

NEW QUESTION # 68

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