Linux-Foundation

Exam Questions CKS

Certified Kubernetes Security Specialist (CKS) Exam

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NEW QUESTION 1
Create a new NetworkPolicy named deny-all in the namespace testing which denies all traffic of type ingress and egress traffic

A. Mastered
B. Not Mastered

Answer: A

Explanation:
You can create a "default" isolation policy for a namespace by creating a NetworkPolicy that selects all pods but does not allow any ingress traffic to those pods.

```
--
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: default-deny-ingress
spec:
podSelector: {}
policyTypes:
- Ingress
```

You can create a "default" egress isolation policy for a namespace by creating a NetworkPolicy that selects all pods but does not allow any egress traffic from those pods.

```
--
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: allow-all-egress
spec:
podSelector: {}
egress:
- {}
policyTypes:
- Egress
```

Default deny all ingress and all egress trafficYou can create a "default" policy for a namespace which prevents all ingress AND egress traffic by creating the following NetworkPolicy in that namespace.

```
--
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: default-deny-all
spec:
podSelector: {}
policyTypes:
- Ingress
- Egress
```

This ensures that even pods that aren't selected by any other NetworkPolicy will not be allowed ingress or egress traffic.

NEW QUESTION 2
Given an existing Pod named nginx-pod running in the namespace test-system, fetch the service-account-name used and put the content in /candidate/KSC00124.txt
Create a new Role named dev-test-role in the namespace test-system, which can perform update operations, on resources of type namespaces.
Create a new RoleBinding named dev-test-role-binding, which binds the newly created Role to the Pod's ServiceAccount (found in the Nginx pod running in namespace test-system).

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Send us your feedback on it.

NEW QUESTION 3
Service is running on port 389 inside the system, find the process-id of the process, and stores the names of all the open-files inside the /candidate/KH77539/files.txt, and also delete the binary.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Send us your feedback on it.

NEW QUESTION 4
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. Mastered
B. Not Mastered

Answer: A

Explanation:
Send us your feedback on it.

NEW QUESTION 5
On the Cluster worker node, enforce the prepared AppArmor profile

```
 #include<tunables/global>
 profile docker-nginx flags=(attach_disconnected,mediate_deleted) {
 #include<abstractions/base>
 network inet tcp,
 network inet udp,
 network inet icmp,
 deny network raw,
 deny network packet,
 file,
 umount,
 deny /bin/** wl,
 deny /boot/** wl,
 deny /dev/** wl,
 deny /etc/** wl,
 deny /home/** wl,
 deny /lib/** wl,
 deny /lib64/** wl,
 deny /media/** wl,
 deny /mnt/** wl,
 deny /opt/** wl,
 deny /proc/** wl,
 deny /root/** wl,
 deny /sbin/** wl,
deny /srv/** wl,
 deny /tmp/** wl,
 deny /sys/** wl,
 deny /usr/** wl,
 audit /** w,
 /var/run/nginx.pid w,
 /usr/sbin/nginx ix,
 deny /bin/dash mrwklx,
 deny /bin/sh mrwklx,
 deny /usr/bin/top mrwklx,
 capability chown,
 capability dac_override,
 capability setuid,
 capability setgid,
 capability net_bind_service,
 deny @{PROC}/* w, # deny write for all files directly in /proc (not in a subdir)
 # deny write to files not in /proc/<number>/** or /proc/sys/**
 deny @{PROC}/{[^1-9],[^1-9][^0-9],[^1-9s][^0-9y][^0-9s],[^1-9][^0-9][^0-9][^0-9]*}/** w,
 deny @{PROC}/sys/[^k]** w, # deny /proc/sys except /proc/sys/k* (effectively /proc/sys/kernel)
 deny @{PROC}/sys/kernel/{?,??,[^s][^h][^m]**} w, # deny everything except shm* in
/proc/sys/kernel/
 deny @{PROC}/sysrq-trigger rwklx,
 deny @{PROC}/mem rwklx,
 deny @{PROC}/kmem rwklx,
 deny @{PROC}/kcore rwklx,
 deny mount,
 deny /sys/[^f]*/** wklx,
 deny /sys/f[^s]*/** wklx,
 deny /sys/fs/[^c]*/** wklx,
 deny /sys/fs/c[^g]*/** wklx,
 deny /sys/fs/cg[^r]*/** wklx,
 deny /sys/firmware/** rwklx,
 deny /sys/kernel/security/** rwklx,
 }
```

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 use command ping, top, sh

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Send us your feedback on it.

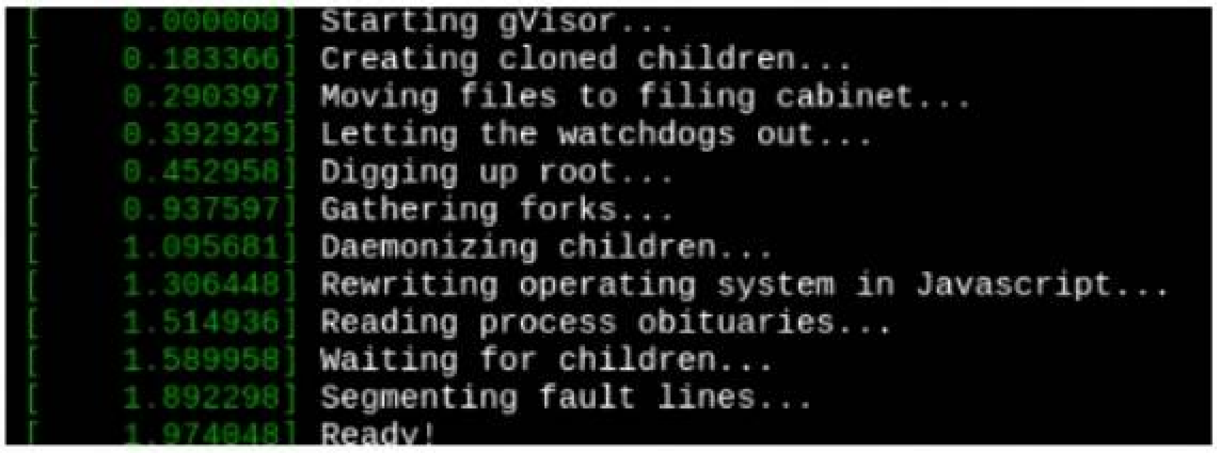
NEW QUESTION 6
A container image scanner is set up on the cluster. Given an incomplete configuration in the directory /etc/kubernetes/confcontrol and a functional container image scanner with HTTPS endpoint https://test-server.local.8081/image_policy
* 1. Enable the admission plugin.
* 2. Validate the control configuration and change it to implicit deny.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Finally, test the configuration by deploying the pod having the image tag as latest. Send us your Feedback on this.

NEW QUESTION 7
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. Verify: Exec the pods and run the dmesg, you will see output like this:



```
[       0.000000] Starting gVisor...
[       0.183366] Creating cloned children...
[       0.290397] Moving files to filing cabinet...
[       0.392925] Letting the watchdogs out...
[       0.452958] Digging up root...
[       0.937597] Gathering forks...
[       1.095681] Daemonizing children...
[       1.306448] Rewriting operating system in Javascript...
[       1.514936] Reading process obituaries...
[       1.589958] Waiting for children...
[       1.892298] Segmenting fault lines...
[       1.974848] Ready!
```

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Send us your feedback on it.

NEW QUESTION 8
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:

A. Mastered
B. Not Mastered

Answer: A

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 10

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