



Linux-Foundation

Exam Questions CKS

Certified Kubernetes Security Specialist (CKS) Exam

NEW QUESTION 1

Create a network policy named restrict-np to restrict to pod nginx-test running in namespace testing. Only allow the following Pods to connect to Pod nginx-test:

- * 1. pods in the namespace default
- * 2. pods with label version:v1 in any namespace.

Make sure to apply the network policy.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Send us your Feedback on this.

NEW QUESTION 2

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 traffic You 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 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

Using the runtime detection tool Falco, Analyse the container behavior for at least 30 seconds, using filters that detect newly spawning and executing processes store the incident file art /opt/falco-incident.txt, containing the detected incidents. one per line, in the format [timestamp],[uid],[user-name],[processName]

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Send us your suggestion on it.

NEW QUESTION 5

Create a RuntimeClass named gvisor-rc using the prepared runtime handler named runsc. Create a Pods of image Nginx in the Namespace server to run on the gVisor runtime class

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Install the Runtime Class for gVisor

```
{ # Step 1: Install a RuntimeClass
```

```
cat <<EOF | kubectl apply -f -
```

```
apiVersion: node.k8s.io/v1beta1
```

```
kind: RuntimeClass
```

```
metadata:
```

```
name: gvisor
```

```
handler: runsc
```

```
EOF
```

```
}
```

Create a Pod with the gVisor Runtime Class

```
{ # Step 2: Create a pod
```

```
cat <<EOF | kubectl apply -f -
```

```
apiVersion: v1
```

```
kind: Pod
```

```
metadata:
```

```
name: nginx-gvisor
```

```
spec:
```

```
runtimeClassName: gvisor
```

```
containers:
```

```
- name: nginx
```

```
image: nginx
```

```
EOF
```

```
}
```

Verify that the Pod is running

```
{ # Step 3: Get the pod
```

```
kubectl get pod nginx-gvisor -o wide
```

```
}
```

NEW QUESTION 6

Create a Pod name Nginx-pod inside the namespace testing, Create a service for the Nginx-pod named nginx-svc, using the ingress of your choice, run the ingress on tls, secure port.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Send us your feedback on it.

NEW QUESTION 7

Analyze and edit the given Dockerfile

```
FROM ubuntu:latest
```

```
RUN apt-getupdate -y
```

```
RUN apt-install nginx -y
```

```
COPY entrypoint.sh /
```

```
ENTRYPOINT ["/entrypoint.sh"]
```

```
USER ROOT
```

Fixing two instructions present in the file being prominent security best practice issues

Analyze and edit the deployment manifest file

```
apiVersion: v1
```

```
kind: Pod
```

```
metadata:
```

```
name: security-context-demo-2
```

```
spec:
```

```
securityContext:
```

```
runAsUser: 1000
```

```
containers:
```

```
- name: sec-ctx-demo-2
```

```
image: gcr.io/google-samples/node-hello:1.0
```

```
securityContext:
```

```
runAsUser: 0
```

```
privileged:True
```

```
allowPrivilegeEscalation:false
```

Fixing two fields present in the file being prominent security best practice issues
 Don't add or remove configuration settings; only modify the existing configuration settings

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Whenever you need an unprivileged user for any of the tasks, use user test-user with the user id 5487 Send us the Feedback on it.

NEW QUESTION 8

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...
[ 1.974948] Ready!
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Send us your feedback on it.

NEW QUESTION 9

Create a User named john, create the CSR Request, fetch the certificate of the user after approving it. Create a Role name john-role to list secrets, pods in namespace john
 Finally, Create a RoleBinding named john-role-binding to attach the newly created role john-role to the user john in the namespace john.
 To Verify: Use the kubectl auth CLI command to verify the permissions.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

se kubectl to create a CSR and approve it.
 Get the list of CSRs:
 kubectl get csr
 Approve the CSR:
 kubectl certificate approve myuser
 Get the certificateRetrieve the certificate from the CSR:
 kubectl get csr/myuser -o yaml
 here are the role and role-binding to give john permission to create NEW_CRD resource: kubectlapply-froleBindingJohn.yaml--as=john
 rolebinding.rbac.authorization.k8s.io/john_external-rosource-rbcreated
 kind:RoleBinding
 apiVersion:rbac.authorization.k8s.io/v1
 metadata:
 name:john_crd
 namespace:development-john
 subjects:
 -kind:User
 name:john
 apiGroup:rbac.authorization.k8s.io
 roleRef:
 kind:ClusterRole
 name:crd-creation
 kind:ClusterRole
 apiVersion:rbac.authorization.k8s.io/v1
 metadata:
 name:crd-creation
 rules:
 -apiGroups:["kubernetes-client.io/v1"]
 resources:["NEW_CRD"]
 verbs:["create, list, get"]

NEW QUESTION 10

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. Mastered
- B. Not Mastered

Answer: A

Explanation:

Send us your Feedback on this.

NEW QUESTION 10

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