CKS Q&As

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QUESTION 1

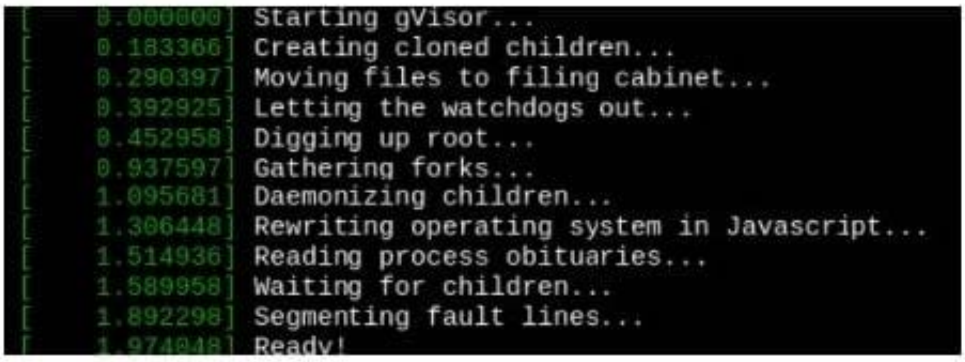
Create a RuntimeClass named untrusted using the prepared runtime handler named runsc.

Create a Pods of image alpine:3.13.2 in the Namespace default to run on the gVisor runtime class.

A. See the explanation below:

B. PlaceHolder

Correct Answer: A



QUESTION 2

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. See the below.

B. PlaceHolder

Correct Answer: A

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:

kubectl apply -f roleBindingJohn.yaml --as=john

rolebinding.rbac.authorization.k8s.io/john_external-rosource-rb created

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"]

QUESTION 3

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

1.

apiVersion: v1

2.

kind: Pod

3.

metadata:

4.

name: kubesec-demo

5.

spec:

6.

containers:

7.

- name: kubesec-demo

8.

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

9.

securityContext: 10.readOnlyRootFilesystem: true

Hint: docker run -i kubesec/kubesec:512c5e0 scan /dev/stdin

A. See explanation below.

B. PlaceHolder

Correct Answer: A

kubesec scan k8s-deployment.yaml cat