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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q63-Q68):

NEW QUESTION # 63

On the NGFW, how can you generate and block a private key from export and thus harden your security posture and prevent rogue administrators or other bad actors from misusing keys?

- A. 1) Select Device > Certificates
2) Select Certificate Profile
3) Generate the certificate
4) Select Block Private Key Export
- B. 1) Select Device > Certificate Management > Certificates Device > Certificates
2) Generate the certificate.
3) Select Block Private Key Export.
4) Click Generate to generate the new certificate.
- C. 1) Select Device > Certificates
2) Select Certificate Profile.
3) Generate the certificate
4) Select Block Private Key Export.
- D. 1) Select Device > Certificate Management > Certificates > Device > Certificates
2) Import the certificate.
3) Select Import Private Key
4) Click Generate to generate the new certificate.

Answer: A

NEW QUESTION # 64

You have a Kubernetes cluster with multiple namespaces. You need to set up RBAC to allow a specific user, "developer", to only deploy and manage pods within the "dev" namespace, but restrict access to other resources.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Create the following YAML files:

1. Role.yaml:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: pod-manager-dev
  namespace: dev
rules:
  - apiGroups: ["apps"]
    resources: ["deployments", "pods"]
    verbs: ["create", "delete", "get", "list", "patch", "update", "watch"]
  - apiGroups: ["extensions"]
    resources: ["ingresses"]
    verbs: ["get", "list", "watch"]
```

2. RoleBinding.yaml:

```

apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: pod-manager-dev-binding
  namespace: dev
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: pod-manager-dev
subjects:
- kind: User
  name: developer
  apiGroup: rbac.authorization.k8s.io

```

Solution (Step by Step) : 1. Create the Role: Apply the 'Role.yaml' file using 'kubectl apply -f Role.yaml'. This defines the permissions granted to the role 'pod-manager-dev' within the 'dev' namespace. 2. Create the RoleBinding: Apply the 'RoleBinding.yaml' file using 'kubectl apply -f RoleBinding.yaml'. This binds the 'pod-manager-dev' role to the user 'developer', allowing them to access resources defined in the role. 3. Verify Access: As the user 'developer', try deploying a pod or managing deployments within the 'dev' namespace. Verify that the user has the necessary permissions. 4. Test Restrictions: Try accessing resources outside the 'dev' namespace or trying actions not defined in the role (e.g., creating a service in the 'dev' namespace). Verify that the user is denied access.

NEW QUESTION # 65

Create a pod as follows:

Name: mongo

Using Image: mongo

In a new Kubernetes namespace named: my-website

Answer:

Explanation:

See the solution below.

Explanation

solution

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```

root@node-1:~#
root@node-1:~#
root@node-1:~# k create ns my-website
namespace/my-website created
root@node-1:~# k run mongo --image=mongo -n my-website
pod/mongo created
root@node-1:~# k get po -n my-website
NAME      READY   STATUS              RESTARTS   AGE
mongo    0/1     ContainerCreating   0           4s
root@node-1:~#

```

NEW QUESTION # 66

Deployment

a. Create a deployment of webapp with image nginx:1.17.1 with container port 80 and verify the image version

- A. // Create initial YAML file with -dry-run option
kubect create deploy webapp --image=nginx:1.17.1 --dryrun=client -o yaml > webapp.yaml vim webapp.yaml apiVersion: apps/v1 kind: Deployment metadata: labels: app: webapp name: webapp spec: replicas: 1 containers: - image: nginx:1.17.1 name: nginx kubect create -f webapp.yaml -record=true //Verify Image Version kubect describe deploy webapp | grep -i "Image" Using JsonPath kubect get deploy -o=jsonpath='{range.items [*]} {[*]} {metadata.name} {"\t"} {spec.template.spec.containers[*].i mage} {"\n"}'
- B. // Create initial YAML file with -dry-run option
kubect create deploy webapp --image=nginx:1.17.1 --dryrun=client -o yaml > webapp.yaml vim webapp.yaml apiVersion: apps/v1 kind: Deployment metadata: labels: app: webapp name: webapp spec: replicas: 1 selector: matchLabels: app: webapp template: metadata: labels: app: webapp spec: containers: - image: nginx:1.17.1 name: nginx kubect create -f webapp.yaml -record=true //Verify Image Version kubect describe deploy webapp | grep -i "Image" Using JsonPath kubect get deploy -o=jsonpath='{range.items [*]} {[*]} {metadata.name} {"\t"} {spec.template.spec.containers[*].i mage} {"\n"}'

Answer: B

NEW QUESTION # 67

Perform the following tasks:

- * Add an init container tohungry-bear(which has been defined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)
- * The init container should create an empty file named/workdir/calm.txt
- * If/workdir/calm.txtis not detected, the pod should exit
- * Once the spec file has been updated with the init container definition, the pod should be created

Answer:

Explanation:

See the solution below.

Explanation

solution

```
root@node-1:~# vim ds.yaml
iroot@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
NAME                DESIRED    CURRENT    READY    UP-TO-DATE    AVAILABLE    NODE SELECTOR    AGE
ds-kusc00201        2          2          2        2             2            <none>           4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
```



```
apiVersion: v1
kind: Pod
metadata:
  name: hungry-bear
spec:
  volumes:
  - name: workdir
    emptyDir: {}
  containers:
  - name: checker
    image: alpine
    command: ["/bin/sh", "-c", "if [ ! -f /workdir/calme.txt ];
    then sleep 100; else exit 1; fi"]
    volumeMounts:
    - name: workdir
      mountPath: /workdir
  initContainers:
  - name: create
    image: alpine
    command: ["/bin/sh", "-c", "touch /workdir/calme.txt"]
    volumeMounts:
    - name: workdir
      mountPath: /workdir
```

```
:wq
```



```
root@node-1:~# vim ds.yaml
iroot@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
NAME          DESIRED  CURRENT  READY  UP-TO-DATE  AVAILABLE  NODE SELECTOR  AGE
ds-kusc00201  2        2        2      2           2          <none>         4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
root@node-1:~# k create -f /opt/KUCC00108/pod-spec-KUCC00108.yaml
pod/hungry-bear created
root@node-1:~#
```

NEW QUESTION # 68

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