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Linux Foundation Certified Kubernetes Administrator (CKA) program is a certification exam that validates the skills and knowledge of professionals who work with Kubernetes. Kubernetes is an open-source container orchestration platform that automates the deployment, scaling, and management of containerized applications. The CKA program is designed to test the ability of individuals to install, configure, and manage Kubernetes clusters.

## How much CNCF CKA Certification Exam Cost and Details

- Retake Exam: Free
- Length of Exam: 120 min
- Types of questions: Multiple Choice Questions

The Certified Kubernetes Administrator (CKA) Program Certification Exam is an industry-recognized credential that verifies the skills of an individual to manage, deploy and troubleshoot Kubernetes clusters. Kubernetes is an open-source container orchestration system that has become the preferred choice for managing containerized applications. The Linux Foundation offers the CKA program to validate the knowledge and experience of professionals in this technology.

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## CKA Exam Dumps Provider - CKA Valid Torrent

Our Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam web-based practice test software has all the specifications of the desktop Certified Kubernetes Administrator (CKA) Program Exam practice exam software. This web-based Certified Kubernetes Administrator (CKA) Program Exam (CKA) practice test software doesn't need any installation or plugins.

You can attempt the Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam web-based practice test using Chrome, Firefox, Opera, Internet Explorer, or Linux Foundation Edge. Our browser-based Certified Kubernetes Administrator (CKA) Program Exam (CKA) practice exam software is also compatible with Windows, Mac, Linux, Android, and iOS.

## Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q58-Q63):

### NEW QUESTION # 58

Score: 7%

Task

First, create a snapshot of the existing etcd instance running at <https://127.0.0.1:2379>, saving the snapshot to /srv/data/etcd-snapshot.db.

Next, restore an existing, previous snapshot located at /var/lib/backup/etcd-snapshot-previous.db

#### Answer:

Explanation:

Solution:

#backup

```
ETCDCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" --cacert=/opt/KUIN000601/ca.crt --cert=/opt/KUIN000601/etcd-client.crt --key=/opt/KUIN000601/etcd-client.key snapshot save /etc/data/etcd-snapshot.db
```

#restore

```
ETCDCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" --cacert=/opt/KUIN000601/ca.crt --cert=/opt/KUIN000601/etcd-client.crt --key=/opt/KUIN000601/etcd-client.key snapshot restore /var/lib/backup/etcd-snapshot-previous.db
```

### NEW QUESTION # 59

You have a Kubernetes cluster with a deployment named 'nginx-deployment' in the 'default' namespace. This deployment uses a container image 'nginx:latest'.

You want to define an admission webhook that enforces a policy to prevent deployments from using 'nginx:latest' and instead forces the use of a specific versioned image like 'nginx:1.20.1'. Create the webhook configuration and admission controller code that implements this policy.

#### Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1 . Create a Webhook Configuration:

2. Create a Service for the Admission Webhook:

3. Create the Admission Controller Code: Example in Go:

4. Build and Deploy the Admission Controller: Build the Go code. Deploy the admission controller as a container in the Kubernetes cluster. Create the Service for the webhook. Create the WebhookConfiguration with the correct CA bundle for the admission controller. The webhook configuration defines the rules for the admission controller, including the resources, operations, and failure policy. The admission controller code handles the validation of the deployment object. It checks the image name and rejects deployments that use the 'nginx:latest' image. The Service exposes the admission controller to the Kubernetes API. The CA bundle is used to secure communication between the webhook and the Kubernetes API. Note: Replace with the actual CA bundle data. The admission controller code should be deployed and configured according to your specific environment and needs.,

### NEW QUESTION # 60

Create a configmap called cfgvolume with values var1=val1, var2=val2 and create an nginx pod with volume nginx-volume which reads data from this configmap cfgvolume and put it on the path /etc/config

- A. // first create a configmap cfgvolume

```

kubectl create cm cfgvolume --from-literal=var1=val1 --fromliteral=var2=val2
// verify the configmap
kubectl describe cm cfgvolume
// create the config map
kubectl create -f nginx-volume.yml
vim nginx-configmap-pod.yaml
apiVersion: v1
kind: Pod
metadata:
labels:
run: nginx
name: nginx
spec:
volumes:
- name: nginx-volume
configMap:
name: cfgvolume
containers:
- image: nginx
name: nginx
volumeMounts:
- name: nginx-volume
mountPath: /etc/cfg
restartPolicy: Always
k kubectl apply -f nginx-configmap-pod.yaml
// Verify
// exec into the pod
kubectl exec -it nginx -- /bin/sh
// check the path
cd /etc/cfg

```

- B. // first create a configmap cfgvolume

```

kubectl create cm cfgvolume --from-literal=var1=val1 --fromliteral=var2=val2
// verify the configmap
kubectl describe cm cfgvolume
// create the config map
kubectl create -f nginx-volume.yml
vim nginx-configmap-pod.yaml
apiVersion: v1
kind: Pod
- name: nginx-volume
configMap:
name: cfgvolume
containers:
- image: nginx
name: nginx
volumeMounts:
- name: nginx-volume
mountPath: /etc/cfg
restartPolicy: Always
k kubectl apply -f nginx-configmap-pod.yaml
// Verify
// exec into the pod
kubectl exec -it nginx -- /bin/sh
// check the path
cd /etc/cfg

```

**Answer: A**

**NEW QUESTION # 61**

A Kubernetes worker node, named .Investigate why this is the case, and perform any appropriate steps to bring the node to a state, ensuring that any changes are made permanent. You can ssh to the failed node using:  
[student@node-1] \$ | sshWk8s-node-0  
You can assume elevated privileges on the node with the following command:  
[student@w8ks-node-0] \$ | sudo -i

#### Answer:

Explanation:  
See the solution below.  
Explanation  
solution  
☰

### NEW QUESTION # 62

You must connect to the correct host.  
Failure to do so may result in a zero score.

[candidate@base] \$ ssh Cka000058

#### Context

You manage a WordPress application. Some Pods are not starting because resource requests are too high.

#### Task

A WordPress application in the relative-fawn namespace consists of:

. A WordPress Deployment with 3 replicas.

Adjust all Pod resource requests as follows:

. Divide node resources evenly across all 3 Pods.

. Give each Pod a fair share of CPU and memory.

#### Answer:

Explanation:

#### Task Summary

You are managing a WordPress Deployment in namespace relative-fawn.

\* Deployment has 3 replicas.

\* Pods are not starting due to high resource requests.

\* Your job# Adjust CPU and memory requests so that all 3 pods evenly split the node's capacity.

#### Step-by-Step Solution

1## SSH into the correct host

bash

CopyEdit

ssh cka000058

# Skipping this will result in a zero score.

2## Check node resource capacity

You need to know the node's CPU and memory resources.

bash

CopyEdit

kubectl describe node | grep -A5 "Capacity"

Example output:

yaml

CopyEdit

Capacity:

cpu: 3

memory: 3Gi

Let's assume the node has:

\* 3 CPUs

\* 3Gi memory

So for 3 pods, divide evenly:

\* CPU request per pod: 1

\* Memory request per pod: 1Gi

## In the actual exam, check real values and divide accordingly. If the node has 4 CPUs and 8Gi, you'd allocate ~1.33 CPUs and ~2.66Gi RAM per pod (rounded reasonably).

3## Edit the Deployment

Edit the WordPress deployment in the relative-fawn namespace:

```
kubectl edit deployment wordpress -n relative-fawn
```

Look for the resources section under spec.template.spec.containers like this:

resources:

requests:

cpu: "1"

memory: "1Gi"

If the section doesn't exist, add it manually.

Save and exit the editor (:wq if using vi).

4## Confirm changes

Wait a few seconds, then check:

```
kubectl get pods -n relative-fawn
```

Ensure all 3 pods are in Running state.

You can also describe a pod to confirm resource requests are set:

```
kubectl describe pod <pod-name> -n relative-fawn | grep -A5 "Containers" ssh cka000058 kubectl describe node | grep -A5
```

```
"Capacity" kubectl edit deployment wordpress -n relative-fawn
```

```
# Set CPU: 1, Memory: 1Gi (or according to node capacity)
```

```
kubectl get pods -n relative-fawn
```

## NEW QUESTION # 63

.....

You can learn from your Certified Kubernetes Administrator (CKA) Program Exam (CKA) practice test mistakes and overcome them before the actual Certified Kubernetes Administrator (CKA) Program Exam (CKA) exam. The software keeps track of the previous Certified Kubernetes Administrator (CKA) Program Exam (CKA) practice exam attempts and shows the changes of each attempt. You don't need to wait days or weeks to get your performance report. The software displays the result of the Linux Foundation CKA Practice Test immediately, which is an excellent way to understand which area needs more attention.

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