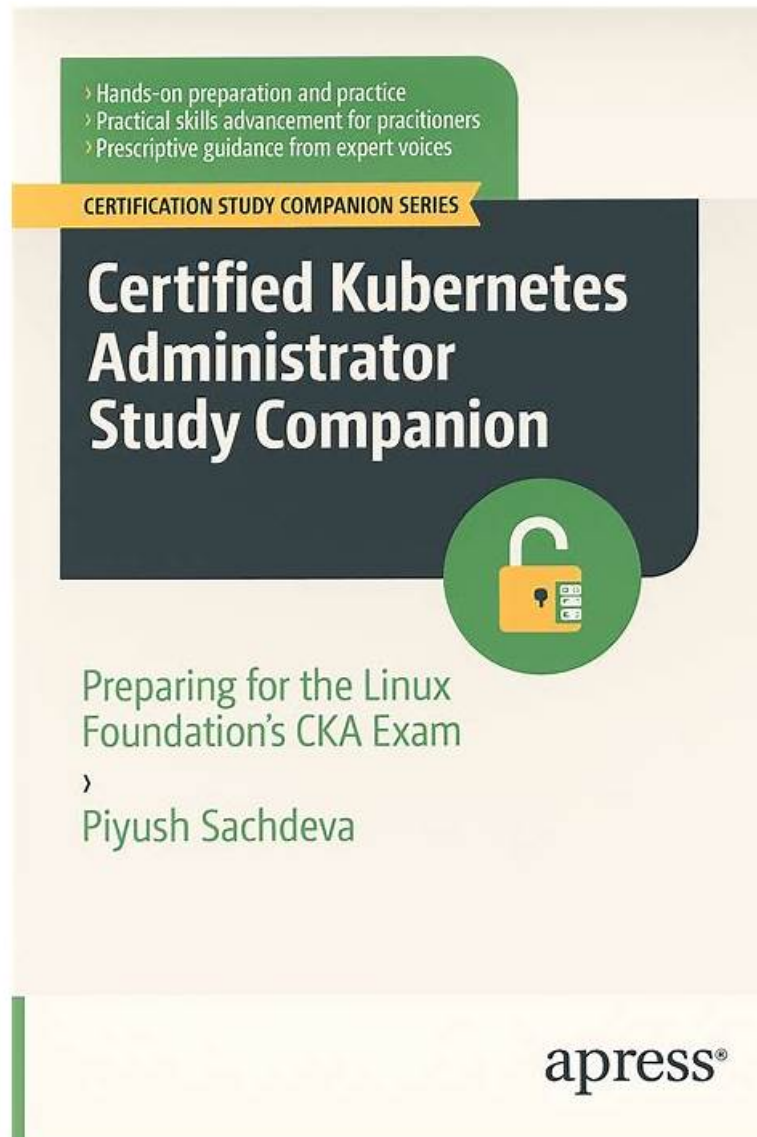# Latest Linux Foundation CKA Exam Camp & CKA Study Materials Review

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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q37-Q42):

NEW QUESTION # 37
You have a StatefulSet named 'mysql-cluster' running a MySQL database with 3 replicas. You want to add a new replica to the cluster without disrupting the existing database operations. How do you achieve this while ensuring data consistency and minimal downtime?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Scale up the StatefulSet:
- Increase the 'replicas' value in the StatefulSet definition from 3 to 4. Apply the change using 'kubectl apply -f mysql-cluster.yaml'
2. Wait for the new pod to be created: - Monitor the pod creation process using 'kubectl get pods -l app=mysql-cluster'. Wait for the new pod to be created and enter a ready state. 3. Join the new pod to the cluster: - In the new pod's shell, execute the following command to join the existing MySQL cluster: Bash mysql -h -u -p -e "CHANGE MASTER TO MASTER PASSWORD=", MASTER DELAY=O" - Replace with the IP address of one of the existing MySQL replicas. - Replace , and '3306' with the appropriate values for your MySQL setup. 4. Verify the new replica is synchronized: - Use "SHOW SLAVE STATUS" command on the new replica to verify that it's successfully replicating data from the existing cluster. Ensure that the 'Slave 10 Running' and 'Slave SQL Running' statuses are both set to 'Yes'. 5. Promote the new replica: - Promote the new replica to a full member of the cluster by updating the StatefulSet definition to include the new pod's hostname. This will typically involve adding a new entry to the 'volumeClaimTemplates' section of the StatefulSet. 6. Test the cluster's health: - Run a series of read and write operations on the database to verify that the new replica is fully integrated and responding correctly. 7. Remove the old pod: - You can now delete the old pod that had the lowest pod index. This will trigger the automatic cleanup of the old volume, ensuring that only the healthy and synchronized replicas remain. By following these steps, you can add a new replica to your MySQL cluster while ensuring minimal downtime and preserving data consistency.]

NEW QUESTION # 38
List all persistent volumes sorted by capacity, saving the full kubectl output to
/opt/KUCC00102/volume_list. Use kubectl 's own functionality for sorting the output, and do not manipulate it any further.

Answer:

Explanation:
See the solution below.
Explanation
solution
□

NEW QUESTION # 39
Undo the deployment to the previous version 1.17.1 and verify Image has the previous version

Answer:

Explanation:
kubectl rollout undo deploy webapp kubectl describe deploy webapp | grep Image

NEW QUESTION # 40
Create an nginx pod with containerPort 80 and it should check the pod running at endpoint / healthz on port 80 and verify and delete the pod.

- A. kubectl run nginx --image=nginx --restart=Always --port=80 --
  dry-run -o yaml > nginx-pod.yaml
  // add the livenessProbe section and create
  apiVersion: v1
  kind: Pod
  metadata:
  labels:
  run: nginx
  name: nginx
  spec:
  containers:
  - image: nginx
  name: nginx
  ports:
  - containerPort: 80
  livenessProbe:
  httpGet:
  path: /healthz
  port: 80
  restartPolicy: Always
  kubectl create -f nginx-pod.yaml
  // verify
  kubectl describe pod nginx | grep -i readiness
  kubectl delete po nginx
- B. kubectl run nginx --image=nginx --restart=Always --port=80 --
  dry-run -o yaml > nginx-pod.yaml
  // add the livenessProbe section and create
  apiVersion: v1
  kind: Pod
  metadata:
  labels:
  containers:
  - image: nginx
  name: nginx
  ports:
  - containerPort: 60
  livenessProbe:
  httpGet:
  path: /healthz
  port: 60
  restartPolicy: Always

```
kubectl create -f nginx-pod.yaml
// verify
kubectl describe pod nginx | grep -i readiness
kubectl delete po nginx
```

Answer: A

NEW QUESTION # 41
Create a nginx pod with label env=test in engineering namespace

Answer:

Explanation:
kubectl run nginx --image=nginx --restart=Never --labels=env=test --namespace=engineering --dry-run -o yaml > nginx-pod.yaml
kubectl run nginx --image=nginx --restart=Never --labels=env=test --namespace=engineering --dry-run -o yaml | kubectl create -n
engineering -f - YAML File:
apiVersion: v1
kind: Pod
metadata:
name: nginx
namespace: engineering
labels:
env: test
spec:
containers:
- name: nginx
image: nginx
imagePullPolicy: IfNotPresent
restartPolicy: Never
kubectl create -f nginx-pod.yaml

NEW QUESTION # 42
......

```

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