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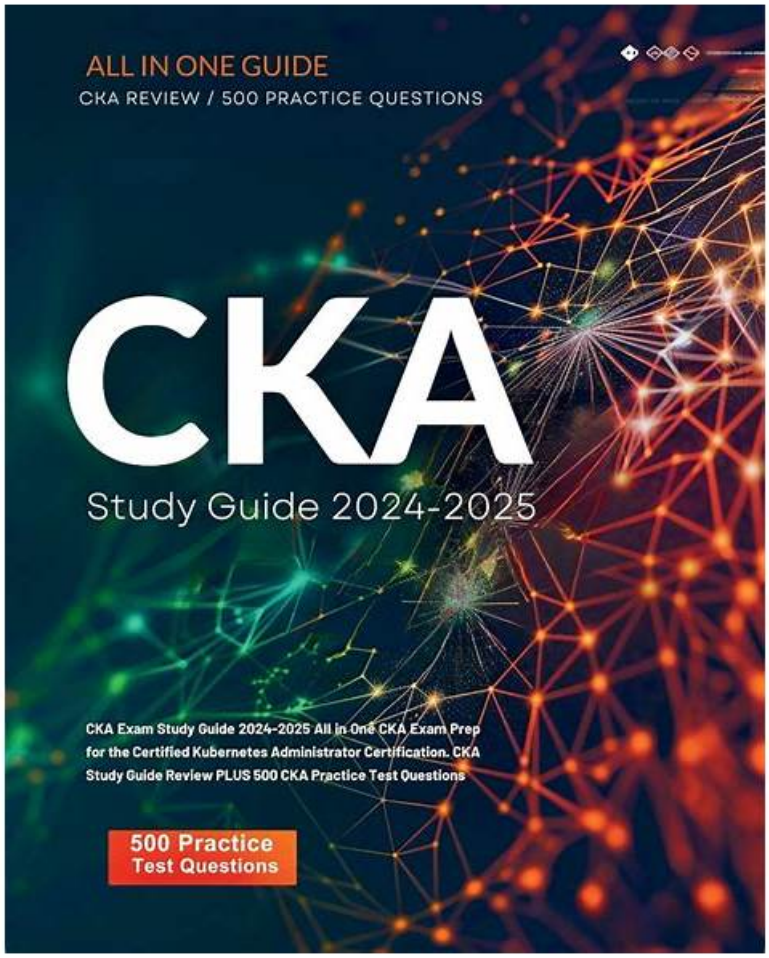

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Linux Foundation CKA (Certified Kubernetes Administrator) Program Certification Exam is a leading certification program designed for IT professionals who want to demonstrate their expertise in managing and deploying applications using Kubernetes technology. Kubernetes is an open-source container orchestration system that automates the deployment, scaling, and management of containerized applications. As containerization becomes increasingly popular in modern software development, the demand for Kubernetes experts has grown rapidly. The CKA Certification program is an excellent way for IT professionals to enhance their Kubernetes skills, demonstrate their expertise to employers, and advance their careers.

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Linux Foundation CKA certificate can help you a lot. It can help you improve your job and living standard, and having it can give you a great sum of wealth. Linux Foundation certification CKA exam is a test of the level of knowledge of IT professionals. Pass4Test has developed the best and the most accurate training materials about Linux Foundation Certification CKA Exam. Now Pass4Test can provide you the most comprehensive training materials about Linux Foundation CKA exam, including exam practice

questions and answers.

The Certified Kubernetes Administrator (CKA) Program Exam is a certification exam offered by the Linux Foundation. CKA exam is designed to test an individual's knowledge and skills related to Kubernetes administration, as well as their ability to work with various Kubernetes tools and resources. The CKA Exam is a popular certification among IT professionals who are interested in building their knowledge of container orchestration and management.

Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q82-Q87):

NEW QUESTION # 82
You have a Deployment named 'my-app' with 5 replicas running an application container. You need to implement a rolling update strategy that allows for a maximum of 2 pods to be unavailable at any given time during the update process. Additionally, you want to ensure that the update process is triggered automatically whenever a new image is pushed to the Docker Hub repository 'my.org/my-app:latest'.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Update the Deployment YAML:
- Update the 'replicas' to 5.
- Define 'maxUnavailable: 2' and 'maxSurge: 0' in the 'strategy.rollingUpdate' section to control the rolling update process.
- Configure a 'strategy.type' to 'RollingUpdate' to trigger a rolling update when the deployment is updated.
- Add a 'spec.template.spec.imagePullPolicy: Always' to ensure that the new image is pulled even if it exists in the pod's local cache.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  replicas: 5
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-app
        image: my-org/my-app:latest
        imagePullPolicy: Always
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 2
      maxSurge: 0
```

2. Create the Deployment: - Apply the updated YAML file using 'kubectl apply -f my-app.yamP 3. Verify the Deployment: - Check the status of the deployment using 'kubectl get deployments my-app' to confirm the rollout and updated replica count. 4. Trigger the Automatic Update: - Push a new image to the 'my.org/my-app:latest' Docker Hub repository. 5. Monitor the Deployment: - Use 'kubectl get pods -l app=my-app' to monitor the pod updates during the rolling update process. You will observe that up to 2 pods are terminated at a time, while new pods with the updated image are created. 6. Check for Successful Update: - Once the deployment is complete, use 'kubectl describe deployment my-app' to see that the 'updatedReplicas' field matches the 'replicas' field, indicating a successful update.

NEW QUESTION # 83
Score: 4%

Task
Scale the deployment presentation to 6 pods.

Answer:

Explanation:
Solution:
kubectl get deployment
kubectl scale deployment.apps/presentation --replicas=6

NEW QUESTION # 84
Create a ETCD backup of kubernetes cluster
Note : You don't need to memorize command, refer -
https://kubernetes.io/docs/tasks/administer-cluster/configureupgrade-etcd/ during exam

- A. ETCDCTL_API=3 etcdctl --endpoints=[ENDPOINT] --cacert=[CA CERT] --cert=[ETCD SERVER CERT] --key=[ETCD SERVER KEY] snapshot save [BACKUP FILE NAME]
  In exam, cluster setup is done with kubeadm , this means ETCD
  used by the kubernetes cluster is coming from static pod.
  kubectl get pod -n kube-system
  kubectl describe pod etcd-master -n kube-system
  You can locate the information on
  endpoint: - advertise-client-urls=https://172.16.0.18:2379
  ca certificate: - trusted-cafile=/etc/kubernetes/pki/etcd/ca.crt
  server certificate : - certfile=/etc/kubernetes/pki/etcd/server.crt
  key: - key-file=/etc/kubernetes/pki/etcd/server.key
  To Create backup
  export ETCDCTL_API=3
  (or)
  ETCDCTL_API=3 etcdctl ETCDCTL_API=3 etcdctl --endpoints=https://172.17.0.15:2379 --key=/etc/kubernetes/pki/etcd/server.key snapshot save etcdsnapshot.db
  //Verify
  ETCDCTL_API=3 etcdctl --write-out=table snapshot status snapshot.db
- B. ETCDCTL_API=3 etcdctl --endpoints=[ENDPOINT] --cacert=[CA CERT] --cert=[ETCD SERVER CERT] --key=[ETCD SERVER KEY] snapshot save [BACKUP FILE NAME]
  In exam, cluster setup is done with kubeadm , this means ETCD
  used by the kubernetes cluster is coming from static pod.
  kubectl get pod -n kube-system
  kubectl describe pod etcd-master -n kube-system
  You can locate the information on
  endpoint: - advertise-client-urls=https://172.17.0.15:2379
  ca certificate: - trusted-cafile=/etc/kubernetes/pki/etcd/ca.crt
  server certificate : - certfile=/etc/kubernetes/pki/etcd/server.crt
  key: - key-file=/etc/kubernetes/pki/etcd/server.key
  To Create backup
  export ETCDCTL_API=3
  (or)
  ETCDCTL_API=3 etcdctl ETCDCTL_API=3 etcdctl --endpoints=https://172.17.0.15:2379 --cacert=/etc/kubernetes/pki/etcd/ca.crt --cert=/etc/kubernetes/pki/etcd/server.crt --key=/etc/kubernetes/pki/etcd/server.key snapshot save etcdsnapshot.db
  //Verify
  ETCDCTL_API=3 etcdctl --write-out=table snapshot status snapshot.db

Answer: B

NEW QUESTION # 85

List pod logs named "frontend" and search for the pattern "started" and write it to a file "/opt/error-logs"

Answer:

Explanation:
Kubectl logs frontend | grep -i "started" > /opt/error-logs

NEW QUESTION # 86
Create a job named "hello-job" with the image busybox which echos "Hello I'm running job"

- A. kubectl create job hello-job --image=busybox --dry-run -o yaml
  -- echo "Hello I'm running job" > hello-job.yaml
  kubectl create -f hello-job.yaml
  //Verify Job
  kubectl get po
  kubectl logs hello-job-*
- B. kubectl create job hello-job --image=busybox --dry-run -o yaml
  -- echo "Hello I'm running job" > hello-job.yaml
  kubectl create -f hello-job.yaml
  //Verify Job
  kubectl get job
  kubectl get po
  kubectl logs hello-job-*

Answer: B

NEW QUESTION # 87
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