

# CKA Interactive EBook & Dumps CKA PDF



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The CNCF Certified Kubernetes Administrator Exam is one of the three certifications in the new Cloud Native Computing Foundation (CNCF) Certification program. The exam does not require any knowledge of programming or development work but focuses on an individual's ability to operate Kubernetes cluster infrastructure and advise customers on best practices for their particular use cases. Individuals who achieve this certification will become experts in developing cloud-native applications using one of the most popular open-source platforms in the world. **CNCF CKA exam dumps** have been designed to reflect all the exam objectives. The test covers the fundamentals of cloud computing while testing for specific knowledge of concepts such as virtualization and containers.

The CKA certification is recognized globally and is highly valued by organizations that use Kubernetes in their production environments. Certified Kubernetes Administrator (CKA) Program Exam certification provides IT professionals with a competitive edge in the job market and opens up new career opportunities. The Linux Foundation offers comprehensive training and preparation materials to help candidates prepare for the CKA certification exam. The training includes hands-on labs, online courses, and study materials that cover all the topics and skills required for the exam.

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## 2026 Linux Foundation High Pass-Rate CKA: Certified Kubernetes Administrator (CKA) Program Exam Interactive EBook

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## Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q38-Q43):

### NEW QUESTION # 38

```
// Create a configmap
kubectl create configmap redis-config --from-file=/opt/redisconfig
// Verify
kubectl get configmap redis-config -o yaml
// first run this command to save the pod yml
kubectl run redis-pod --image=redis --restart=Always --dry-run
-o yaml > redis-pod.yml
// edit the yml to below file and create
apiVersion: v1
kind: Pod
metadata:
  name: redis
spec:
  containers:
  - name: redis
    image: redis
  env:
  - name: MASTER
    value: "true"
```

```
ports:
- containerPort: 6379
volumeMounts:
- mountPath: /redis-master-data
  name: data
- mountPath: /redis-master
  name: config
volumes:
- name: data
  emptyDir: {}
- name: config
  configMap:
    name: example-redis-config
```

- A. items:
  - key: redis-config
  - path: redis.conf
  - cf

```
kk kubectl apply -f redis-pod.yml
// // Verify
K kubectl exec -it redis - cat /redis-master-data/redis.conf
```
- B. items:
  - key: redis-config
  - path: redis.conf
  - cf

```
// // Verify
K kubectl exec -it redis - cat /redis-master-data/redis.conf
```

**Answer: A**

#### NEW QUESTION # 39

Score: 7%



Task

Create a new nginx Ingress resource as follows:

- \* Name: ping
- \* Namespace: ing-internal
- \* Exposing service hi on path /hi using service port 5678

The availability of service `hi` can be checked using the following command, which should return `hi`:

```
[student@node-1] $ | curl -kL <INTERNAL_IP>/hi
```

**Answer:**

Explanation:

Solution:

```
vi ingress.yaml
```

```
#
```

```
apiVersion: networking.k8s.io/v1
```

```
kind: Ingress
```

```
metadata:
```

```
name: ping
```

```
namespace: ing-internal
```

```
spec:
```

```
rules:
```

```
- http:
```

```
paths:
```

```
- path: /hi
```

```
pathType: Prefix
```

```
backend:
```

```
service:
```

```
name: hi
```

```
port:
```

```
number: 5678
```

```
#
```

```
kubectl create -f ingress.yaml
```

**NEW QUESTION # 40**

Score: 4%

Set configuration context: 

```
[student@node-1] $ | kube
ctl config use-context k
8s
```

Task

Schedule a pod as follows:

- \* Name: nginx-kusc00401

- \* Image: nginx

- \* Node selector: disk=ssd

**Answer:**

Explanation:

See the solution below.

Explanation

Solution:

```
#yaml
apiVersion: v1
kind: Pod
metadata:
  name: nginx-kusc00401
spec:
  containers:
  - name: nginx
    image: nginx
    imagePullPolicy: IfNotPresent
  nodeSelector:
    disk: spinning
#
kubectl create -f node-select.yaml
```

**NEW QUESTION # 41**

Create a deployment as follows:

- \* Name: nginx-app
- \* Using container nginx with version 1.11.10-alpine
- \* The deployment should contain 3 replicas

Next, deploy the application with new version 1.11.13-alpine, by performing a rolling update.

Finally, rollback that update to the previous version 1.11.10-alpine.

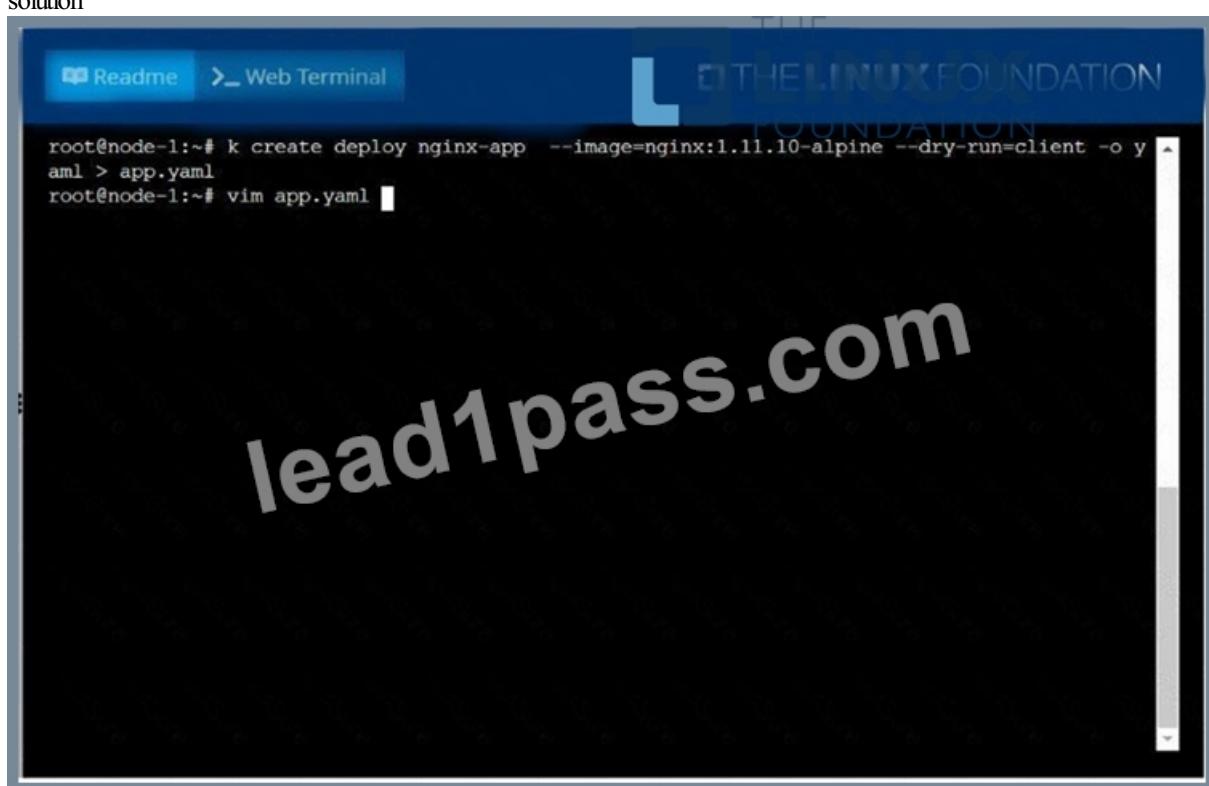
**Answer:**

Explanation:

See the solution below.

Explanation

solution



The screenshot shows a terminal window with the following content:

```
Readme > Web Terminal
```

THE L<sup>inux</sup> FOUNDATION

```
root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o yaml > app.yaml
root@node-1:~# vim app.yaml
```

A large watermark 'lead1pass.com' is diagonally across the terminal window.



```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx-app
  template:
    metadata:
      labels:
        app: nginx-app
    spec:
      containers:
        - image: nginx:1.11.10-alpine
          name: nginx

```

app.yaml



```
root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o yaml > app.yaml
root@node-1:~# vim app.yaml
root@node-1:~# k create -f app.yaml
deployment.apps/nginx-app created
root@node-1:~#
root@node-1:~#
root@node-1:~# k set image deploy nginx-app nginx=nginx:1.11.13-alpine --record
deployment.apps/nginx-app image updated
root@node-1:~# k rollout undo deploy nginx-app
deployment.apps/nginx-app rolled back
root@node-1:~#
```

#### NEW QUESTION # 42

You have a deployment that uses a PersistentVolumeClaim for its storage. The deployment is scaled to 5 replicas. You notice that each pod is using the same volume, leading to data corruption. Explain why this is happening and how you can fix the problem.

#### Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

This problem arises because the access mode of the PersistentVolumeClaim is set to 'ReadWriteMany', and the PVC is shared

between all pods. When multiple pods access the same data simultaneously, data corruption can occur due to inconsistent updates. To fix the issue, you need to change the PVC access mode to 'ReadWriteOnce' and create individual PVCs for each pod. Here's how:

1. Update the PVC Access Mode:

- Modify the access mode in the PersistentVolumeClaim YAML file to 'ReadWriteOnce'.

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: my-pvc
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 1Gi

```

2. Update the Deployment to use Multiple PVCs: - Update the Deployment YAML to use a unique PVC for each pod by specifying the 'persistentVolumeClaim' field in the 'spec.template.spec.containers.volumeMounts' section.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deployment
spec:
  replicas: 5
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
        - name: my-app
          image: my-app:latest
          volumeMounts:
            - name: my-data
              mountPath: /data
      volumes:
        - name: my-data
          persistentVolumeClaim:
            claimName: my-pvc-{pod.metadata.name} # Use a unique name for each pod
```



3. Apply the Changes: - Apply the updated PVC and Deployment YAML files using 'kubectl apply -f my-pvc.yaml' and 'kubectl apply -f my-deployment.yaml', respectively. - By setting the PVC access mode to 'ReadWriteOnce', each pod can access the volume exclusively. - The updated Deployment definition ensures that each pod has a unique PersistentVolumeClaim. The 'claimName' field in the volumes' section uses the 'pod.metadata.name' to create a unique name for each PVC. This ensures that each pod has its own dedicated storage, preventing data corruption and ensuring data consistency.]

## NEW QUESTION # 43

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