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Linux Foundation

CKA Exam

Kubernetes Administrator

Questions & Answers

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Linux Foundation Certified Kubernetes Administrator (CKA) program is an industry-recognized certification exam designed to validate the skills and knowledge of professionals in Kubernetes Administration. Kubernetes is an open-source container orchestration system that automates the deployment, scaling, and management of containerized applications. With the increasing adoption of cloud-native technologies, Kubernetes has become a critical skill for DevOps engineers, system administrators, and developers. The CKA Certification Exam is specifically designed to assess the candidate's ability to configure, manage, and troubleshoot Kubernetes clusters.

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Exam Questions for the Linux Foundation CKA - Improve Your Career Prospects

It is a universally accepted fact that the CKA exam is a tough nut to crack for the majority of candidates, but there are still a lot of people in this field who long to gain the related certification so that a lot of people want to try their best to meet the challenge of the CKA Exam. A growing number of people know that if they have the chance to pass the exam, they will change their present situation and get a more decent job in the near future.

Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q13-Q18):

NEW QUESTION # 13

From the pod `labelname=cpu-utilizer`, find pods running high CPU workloads and write the name of the pod consuming most CPU to the file `/opt/KUTR00102/KUTR00102.txt` (which already exists).

Answer:

Explanation:

See the solution below.

Explanation
solution

□

NEW QUESTION # 14

You must connect to the correct host.

Failure to do so may result in a zero score.

`[candidate@base] $ ssh cka000059`

Context

A kubeadm provisioned cluster was migrated to a new machine. It needs configuration changes to run successfully.

Task

Fix a single-node cluster that got broken during machine migration.

First, identify the broken cluster components and investigate what breaks them.

The decommissioned cluster used an external etcd server.

Next, fix the configuration of all broken cluster

Answer:

Explanation:

Task Summary

- * SSH into node: cka000059
- * Cluster was migrated to a new machine
- * It uses an external etcd server
- * Identify and fix misconfigured components
- * Bring the cluster back to a healthy state

Step-by-Step Solution

Step 1: SSH into the correct host

`ssh cka000059`

Step 2: Check the cluster status

Run:

`kubectl get nodes`

If it fails, the kubelet or kube-apiserver is likely broken.

Check kubelet status:

`sudo systemctl status kubelet`

Also, check pod statuses in the control plane:

`sudo crictl ps -a | grep kube`

or:

`docker ps -a | grep kube`

Look especially for failures in kube-apiserver or kube-controller-manager.

Step 3: Inspect the kube-apiserver manifest

Since this is a kubeadm-based cluster, manifests are in:

```
ls /etc/kubernetes/manifests
```

Open kube-apiserver.yaml:

```
bash
```

```
CopyEdit
```

```
sudo nano /etc/kubernetes/manifests/kube-apiserver.yaml
```

Look for the `--etcd-servers=` flag. If the external etcd endpoint has changed (likely, due to migration), this needs to be fixed.

Example of incorrect configuration:

```
--etcd-servers=https://192.168.1.100:2379
```

If the IP has changed, update it to the correct IP or hostname of the external etcd server.

Also ensure the correct client certificate and key paths are still valid:

```
--etcd-cafile=/etc/kubernetes/pki/etcd/ca.crt
```

```
--etcd-certfile=/etc/kubernetes/pki/apiserver-etcd-client.crt
```

```
--etcd-keyfile=/etc/kubernetes/pki/apiserver-etcd-client.key
```

If the files are missing or the path is wrong due to migration, correct those as well.

Step 4: Save and exit, and let static pod restart

Static pod changes will be picked up automatically by the kubelet (watch for `/etc/kubernetes/manifests` changes).

Check again:

```
docker ps | grep kube-apiserver
```

```
# or
```

```
crictl ps | grep kube-apiserver
```

Step 5: Confirm API is healthy

Once kube-apiserver is up, try:

```
kubectl get componentstatuses
```

```
kubectl get nodes
```

If these commands work and return valid statuses, the control plane is functional again.

Step 6: Check controller-manager and scheduler (optional)

If still broken, check the other static pods in `/etc/kubernetes/manifests/` and correct paths if necessary.

Also verify that `/etc/kubernetes/kubelet.conf` and `/etc/kubernetes/admin.conf` are present and valid.

Command Summary

```
ssh cka000059
```

```
# Check system and kubelet
```

```
sudo systemctl status kubelet
```

```
docker ps -a | grep kube # or crictl ps -a | grep kube
```

```
# Check manifests
```

```
ls /etc/kubernetes/manifests
```

```
sudo nano /etc/kubernetes/manifests/kube-apiserver.yaml
```

```
# Fix --etcd-servers and certificate paths if needed
```

```
# Watch pods restart and confirm:
```

```
kubectl get nodes
```

```
kubectl get componentstatuses
```

NEW QUESTION # 15

Get the deployment rollout status

Answer:

Explanation:

```
kubectl rollout status deploy webapp
```

NEW QUESTION # 16

Evict all existing pods from a node-1 and make the node unschedulable for new pods.

- A.

```
kubectl get nodes
```



```
kubectl drain node-1 #It will evict pods running on node-1 to
```



```
other nodes in the cluster
```



```
// Verify
```



```
kubectl get no
```

When you cordon a node, the status shows "SchedulingDisabled"

- B. `kubectrl get nodes`
`kubectrl drain node-1` #It will evict pods running on node-1 to other nodes in the cluster
`kubectrl cordon node-1` # New pods cannot be scheduled to the node
// Verify
`kubectrl get no`
When you cordon a node, the status shows "SchedulingDisabled"

Answer: B

NEW QUESTION # 17

You have a Kubernetes cluster where different teams manage applications in different namespaces. You want to enable a team to manage their resources in a specific namespace while preventing them from accessing resources in other namespaces.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a ServiceAccount for the team
2. Create a ClusterRole for the team
3. Create a ClusterRoleBinding that binds the ClusterRole to the ServiceAccount and restricts access to a specific namespace:
4. Replace 'team-sa', 'team-namespace', and 'team-clusterrole' with the actual names. 5. Test the configuration by creating a deployment as the ServiceAccount in the assigned namespace and verifying that you can't access resources in other namespaces.

NEW QUESTION # 18

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