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Linux Foundation Certified Kubernetes Administrator (CKA) program is a globally recognized certification program for IT professionals who want to demonstrate their expertise in Kubernetes administration. Kubernetes is a popular open-source container orchestration platform that has rapidly become the preferred choice for cloud-native application development and deployment. With the increasing adoption of Kubernetes, the demand for certified Kubernetes administrators is also on the rise. The CKA program is designed to help IT professionals validate their skills and knowledge of Kubernetes and become certified Kubernetes administrators.

The CKA Certification Exam is designed to test the candidate's knowledge and expertise in deploying, managing, and troubleshooting Kubernetes applications. It is a performance-based exam that evaluates the candidate's ability to perform tasks on a live Kubernetes cluster. This ensures that the certification is a true reflection of the candidate's practical skills and not just theoretical knowledge.

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Linux Foundation Certified Kubernetes Administrator (CKA) Program

Exam Sample Questions (Q56-Q61):

NEW QUESTION # 56

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

Answer: B

NEW QUESTION # 57

Create PersistentVolume named task-pv-volume with storage 10Gi, access modes ReadWriteMany, storageClassName manual, and volume at /mnt/data and Create a PersistentVolumeClaim of at least 3Gi storage and access mode ReadWriteOnce and verify

- A. `vim task-pv-volume.yaml`
`apiVersion: v1`
`kind: PersistentVolume`
`metadata:`
`name: task-pv-volume`
`labels:`
`type: local`
`spec:`
`storageClassName: manual`
`capacity:`
`storage: 10Gi`
`accessModes:`
`- ReadWriteMany`
`hostPath:`
`path: "/mnt/data"`
`kubectl apply -f task-pv-volume.yaml`
`//Verify`
`kubectl get pv`
`vim task-pvc-volume.yaml`
`apiVersion: v1`
`kind: PersistentVolumeClaim`
`metadata:`
`name: task-pv-claim`
`spec:`
`storageClassName: manual`
`accessModes:`
`- ReadWriteMany`
`resources:`
`requests:`
`storage: 3Gi`
`kubectl apply -f task-pvc-volume.yaml`
`//Verify`

Kuk kubectl get pvc

- B. vim task-pv-volume.yaml
apiVersion: v1
kind: PersistentVolume
metadata:
name: task-pv-volume
labels:
type: local
spec:
storageClassName: manual
capacity:
storage: 10Gi
accessModes:
- ReadWriteMany
hostPath:
path: "/mnt/data"
kubectl apply -f task-pv-volume.yaml
//Verify
kubectl get pv
vim task-pvc-volume.yaml
apiVersion: v1
- ReadWriteMany
resources:
requests:
storage: 3Gi
kubectl apply -f task-pvc-volume.yaml
//Verify
Kuk kubectl get pvc

Answer: A

NEW QUESTION # 58

You are managing a Kubernetes cluster with a complex deployment scenario. The cluster has multiple namespaces, each with its own set of applications and users. You need to create a robust RBAC system to enforce fine-grained access control.

Current Setup:

Namespace: 'dev', 'staging', 'production'

Users: 'developer', 'qa', 'admin'

Applications: 'app1', 'app2' in 'dev', 'app3' in 'staging', 'app4' in 'production' Requirements:

'developer' should be able to access and manage 'app1' and 'app2' in the 'dev' namespace.

'qa' should be able to access and manage 'app3' in the 'staging' namespace.

'admin' should have full cluster-wide access.

Task:

Create the necessary Role, RoleBinding, and ClusterRole objects to implement this RBAC system.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create Roles for 'developer' and 'qa':

2. Create RoleBinding for 'developer' and 'qa':

3. Create ClusterRole for 'admin'.

4. Create ClusterRoleBindin for 'admin'.

We created separate roles (developer-role', 'cp-role') for each user group, limiting their access to specific namespaces and resources. We bound these roles to users using RoleBindings in the respective namespaces. For 'admin', we created a ClusterRole (Admin-clusterrole') with full access to all resources, and bound it using a ClusterRoleBinding. This setup ensures that each user has appropriate access rights based on their role and responsibilities. ,

NEW QUESTION # 59

You must connect to the correct host.

Failure to do so may result in a zero score.

```
[candidate@base] $ ssh cka000054
```

Context:

Your cluster's CNI has failed a security audit. It has been removed. You must install a new CNI that can enforce network policies.

Task

Install and set up a Container Network Interface (CNI) that meets these requirements:

Pick and install one of these CNI options:

Flannel version 0.26.1

Manifest:

```
https://github.com/flannel-io/flannel/releases/download/v0.26.1/kube-flannel.yml
```

Calico version 3.28.2

Manifest:

```
https://raw.githubusercontent.com/projectcalico/calico/v3.28.2/manifests/tigera-operator.yaml
```

Answer:

Explanation:

Task Summary

- * SSH into cka000054

- * Install a CNI plugin that supports NetworkPolicies

- * Two CNI options provided:

- * Flannel v0.26.1 (# does NOT support NetworkPolicies)

- * Calico v3.28.2 # (does support NetworkPolicies)

Decision Point: Which CNI to choose?

Choose Calico, because only Calico supports enforcing NetworkPolicies natively. Flannel does not.

Step-by-Step Solution

1## SSH into the correct node

```
ssh cka000054
```

Required. Skipping this results in zero score.

2## Install Calico CNI (v3.28.2)

Use the official manifest provided:

```
kubectl apply -f https://raw.githubusercontent.com/projectcalico/calico/v3.28.2/manifests/tigera-operator.yaml
```

This installs the Calico Operator, which then deploys the full Calico CNI stack.

3## Wait for Calico components to come up

Check the pods in tigera-operator and calico-system namespaces:

```
kubectl get pods -n tigera-operator
```

```
kubectl get pods -n calico-system
```

You should see pods like:

- * calico-kube-controllers

- * calico-node

- * calico-typha

- * tigera-operator

Wait for all to be in Running state.

(Optional) 4## Confirm CNI is enforcing NetworkPolicies

You can check:

```
kubectl get crds | grep networkpolicy
```

You should see:

- * networkpolicies.crd.projectcalico.org

- * This confirms Calico's CRDs are installed for policy enforcement.

Final Command Summary

```
ssh cka000054
```

```
kubectl apply -f https://raw.githubusercontent.com/projectcalico/calico/v3.28.2/manifests/tigera-operator.yaml kubectl get pods -n tigera-operator kubectl get pods -n calico-system kubectl get crds | grep networkpolicy
```

NEW QUESTION # 60

You need to expose a service with multiple endpoints, each serving a specific path, using a single Ingress resource. Each endpoint is

running on a different port, and you want to configure SSL termination for the entire Ingress. How would you achieve this?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define the Ingress Resource:

- Create an Ingress resource with the desired host and paths for each endpoint.

- Example:

- This configuration defines the host "example.com" and two paths: "/api" routed to "api-service" on port 8080 and "[blog" routed to "blog-service" on port 8081. 2. Create the TLS Secret: - Create a Secret containing your SSL certificate and private key for the domain "example.com". - Example:

- Replace " and with the actual content of your SSL certificate and private key. 3. Deploy the Services: - Ensure that the services "api-service" and "blog-service" are deployed and accessible on their respective ports (8080 and 8081 4. Apply the Ingress Configuration: - Apply the Ingress configuration using 'kubectl apply -f multiple-endpoints-ingress.yaml'. 5. Verify the Ingress: - Access the Ingress using the defined host "example.com". - Check that requests to "/api" are routed to the "api-service" and requests to "[blog" are routed to the "blog- service", with SSL termination working as expected.

NEW QUESTION # 61

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