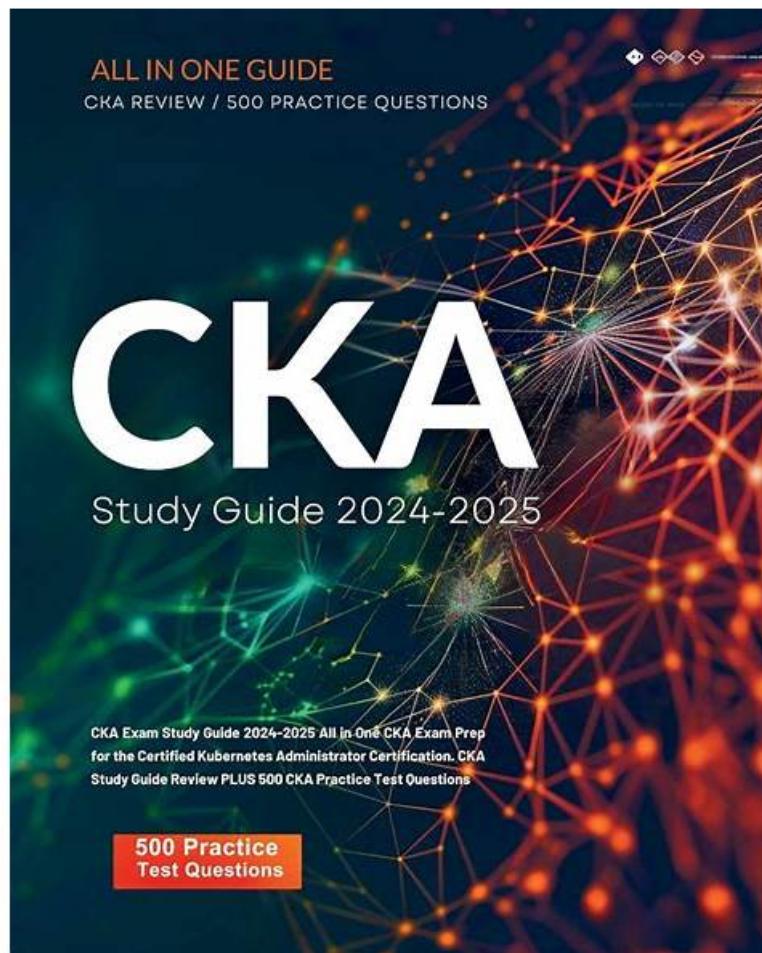


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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q50-Q55):

NEW QUESTION # 50

Delete the pod without any delay (force delete)

Answer:

Explanation:

```
Kubect1 delete po "POD-NAME" --grace-period=0 --force
```

NEW QUESTION # 51

You must connect to the correct host.

Failure to do so may result in a zero score.

```
[candidate@base] $ ssh Cka000049
```

Task

Perform the following tasks:

Create a new PriorityClass named high-priority for user-workloads with a value that is one less than the highest existing user-defined priority class value.

Patch the existing Deployment busybox-logger running in the priority namespace to use the high-priority priority class.

Answer:

Explanation:

Task Summary

- * SSH into the correct node: cka000049
- * Find the highest existing user-defined PriorityClass
- * Create a new PriorityClass high-priority with a value one less
- * Patch Deployment busybox-logger (in namespace priority) to use this new PriorityClass Step-by-Step Solution

1## SSH into the correct node

bash

CopyEdit

```
ssh cka000049
```

Skipping this = zero score

2## Find the highest existing user-defined PriorityClass

Run:

bash

CopyEdit

```
kubectl get priorityclasses.scheduling.k8s.io
```

Example output:

vbnet

CopyEdit

NAME	VALUE	GLOBALDEFAULT	AGE
default-low	1000	false	10d
mid-tier	2000	false	7d
critical-pods	1000000	true	30d

NAME VALUE GLOBALDEFAULT AGE

default-low 1000 false 10d

mid-tier 2000 false 7d

critical-pods 1000000 true 30d

Exclude system-defined classes like system-* and the default global one (e.g., critical-pods).

Let's assume the highest user-defined value is 2000.

So your new class should be:

* Value = 1999

3## Create the high-priority PriorityClass

Create a file called high-priority.yaml:

```
cat <<EOF > high-priority.yaml
```

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

```
kind: PriorityClass
```

```
metadata:
```

```
  name: high-priority
```

```
  value: 1999
```

```
  globalDefault: false
```

```
  description: "High priority class for user workloads"
```

```
EOF
```

Apply it:

```
kubectl apply -f high-priority.yaml
```

```

4## Patch the busybox-logger deployment
Now patch the existing Deployment in the priority namespace:
kubectl patch deployment busybox-logger -n priority \
--type='merge' \
-p '{"spec": {"template": {"spec": {"priorityClassName": "high-priority"} }}}'
5## Verify your work
Confirm the patch was applied:
kubectl get deployment busybox-logger -n priority -o jsonpath='{.spec.template.spec.priorityClassName}'
# You should see:
high-priority
Also, confirm the class exists:
kubectl get priorityclass high-priority
Final Command Summary
ssh cka000049
kubectl get priorityclass
# Create the new PriorityClass
cat <<EOF > high-priority.yaml
apiVersion: scheduling.k8s.io/v1
kind: PriorityClass
metadata:
  name: high-priority
  value: 1999
  globalDefault: false
  description: "High priority class for user workloads"
EOF
kubectl apply -f high-priority.yaml
# Patch the deployment
kubectl patch deployment busybox-logger -n priority \
--type='merge' \
-p '{"spec": {"template": {"spec": {"priorityClassName": "high-priority"} }}}'
# Verify
kubectl get deployment busybox-logger -n priority -o jsonpath='{.spec.template.spec.priorityClassName}' kubectl get priorityclass
high-priority

```

NEW QUESTION # 52

Create a pod as follows:

Name: mongo

Using Image: mongo

In a new Kubernetes namespace named: my-website

Answer:

Explanation:

solution

```
root@node-1:~# k create ns my-website
root@node-1:~# namespace/my-website created
root@node-1:~# k run mongo --image=mongo -n my-website
pod/mongo created
root@node-1:~# k get po -n my-website
NAME    READY  STATUS        RESTARTS   AGE
mongo  0/1    ContainerCreating   0          4s
root@node-1:~#
```

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NEW QUESTION # 53

You are deploying a microservices application on Kubernetes where each service has its own dedicated namespace. You want to implement a robust network security policy that allows communication between specific services only. How can you achieve this using NetworkPolicies?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define Network Policies for Each Service:

- For each service, create a NetworkPolicy that defines the allowed ingress and egress traffic.
- Example for service "service-A":

```

apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: service-a-network-policy
  namespace: service-a # Replace with the namespace of service "service-A"
spec:
  podSelector: {}
  ingress:
  - from:
    - namespaceSelector:
        matchLabels:
          service: service-b # Allow ingress from service "service-B"
  egress:
  - to:
    - namespaceSelector:
        matchLabels:
          service: service-c # Allow egress to service "service-C"
  policyTypes:
  - Ingress
  - Egress

```



2. Apply Network Policies: - Apply the NetworkPolicies to the respective namespaces using 'kubectl apply -f networkpolicy.yaml'

NEW QUESTION # 54

You have a Deployment running a web application that receives a significant amount of traffic. You need to implement a strategy to scale the Deployment based on the traffic load while ensuring that the application remains available during the scaling process.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Use a Deployment:

- Deploy the web application using a Deployment with the desired number of replicas.

2. Define a Service:

- Create a Service that exposes the application to the outside world.

- Use a 'type: LoadBalancer' to distribute traffic across the pods.

3. Implement Horizontal Pod Autoscaler (HPA):

- Create an HPA that monitors the web application's CPU usage.

- Configure the HPA to scale the Deployment based on the CPU utilization.

```

apiVersion: autoscaling/v2beta2
kind: HorizontalPodAutoscaler
metadata:
  name: web-app-hpa
spec:
  scaleTargetRef:
    apiVersion: apps/v1
    kind: Deployment
    name: web-app
  minReplicas: 1
  maxReplicas: 10
  metrics:
  - type: Resource
    resource:
      name: cpu
    target:
      type: Utilization
      averageUtilization: 50

```

4. Test the Autoscaling: - Simulate increased traffic to the web application. - Observe the HPA scaling the Deployment to meet the demand. 5. Monitor the Service: - Monitor the web application's performance and ensure that it remains available and stable during scaling. 6. Adjust HPA Configuration: - Fine-tune the HPA configuration to optimize scaling based on specific performance needs.

NEW QUESTION # 55

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