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LinuxFoundation.CKA.v2023-03-27.q73

Exam Code:	CKA
Exam Name:	Certified Kubernetes Administrator (CKA) Program Exam
Certification Provider:	Linux Foundation
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NEW QUESTION: 1

Score: 4%



Context

You have been asked to create a new ClusterRole for a deployment pipeline and bind it to a specific ServiceAccount scoped to a specific namespace.

Task

Create a new ClusterRole named deployment-clusterrole, which only allows to create the following resource types:

- * Deployment
- * StatefulSet
- * DaemonSet

Create a new ServiceAccount named cicd-token in the existing namespace app-team1.

Bind the new ClusterRole deployment-clusterrole to the new ServiceAccount cicd-token, limited to the namespace app-team1.

Answer:

Solution:

Task should be complete on node k8s - 1 master, 2 worker for this connect use command

```
[student@node-1] > ssh k8s
```

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The CKA exam is intended for individuals who have experience working with Kubernetes and are looking to validate their skills and knowledge. It is also suitable for individuals who are new to Kubernetes but have experience working with other containerization platforms such as Docker. CKA exam is designed to test the skills of individuals at an intermediate to advanced level and is not intended for beginners.

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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q27-Q32):

NEW QUESTION # 27

Scale the deployment webserver to

Answer:

Explanation:

See the solution below.

Explanation

solution

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□

NEW QUESTION # 28

List all persistent volumes sorted by capacity, saving the full kubectl output to /opt/KUCC00102/volume_list.

Use kubectl's own functionality for sorting the output, and do not manipulate it any further.

Answer:

Explanation:

□

NEW QUESTION # 29

Create a deployment as follows:

Name: nginx-random

Exposed via a service nginx-random

Ensure that the service & pod are accessible via their respective DNS records The container(s) within any pod(s) running as a part of this deployment should use the nginx Image Next, use the utility nslookup to look up the DNS records of the service & pod and write the output to /opt/KUNW00601/service.dns and /opt/KUNW00601/pod.dns respectively.

Answer:

Explanation:

Solution:

□

NEW QUESTION # 30

You have a Deployment named 'api-server' with 4 replicas of an API server container. You need to implement a rolling update strategy that allows for a maximum of 2 pods to be unavailable at any given time. You also want to ensure that the update process is triggered automatically whenever a new image is pushed to the Docker Hub repository 'my.org/api-server:latest'. Furthermore, you want to ensure that the update process is completed within a specified timeout of 5 minutes. If the update fails to complete within the timeout, the deployment should revert to the previous version.

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 4.
- Define 'maxUnavailable: 2' and maxSurge: in the 'strategy.rollingUpdate' section to control the rolling update process.
- Configure a 'strategy.type' to trigger a rolling update when the deployment is updated.
- Set 'spec.template.spec.containers[0].imagePullPolicy: Always' to ensure that the new image is pulled even if it exists in the pod's local cache.
- Add a 'spec.progressDeadlineSeconds: 300' to set a timeout of 5 minutes for the update process.

2. Create the Deployment: - Apply the updated YAML file using 'kubectl apply -f api-server.yaml' 3. Verify the Deployment: - Check the status of the deployment using 'kubectl get deployments api-server' to confirm the rollout and updated replica count. 4. Trigger the Automatic Update: - Push a new image to the 'my.org/api-server:latest' Docker Hub repository. 5. Monitor the Deployment: - Use 'kubectl get pods -l app=api-server' to monitor the pod updates during the rolling update process. 6. Observe Rollback if Timeout Exceeds: - If the update process takes longer than 5 minutes to complete, the deployment will be rolled back to the previous version. This can be observed using 'kubectl describe deployment api-server' and checking the 'updatedReplicas' and 'availableReplicas' fields.

NEW QUESTION # 31

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

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 # 32

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