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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.

>> CKA Flexible Testing Engine <<

2026 CKA Flexible Testing Engine | Professional Reliable CKA Exam Labs: Certified Kubernetes Administrator (CKA) Program Exam

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The CKA Certification program is open to anyone who has a basic understanding of Linux and container technology. The program includes a comprehensive online course that covers all the essential topics related to Kubernetes. The online course is self-paced and can be accessed from anywhere in the world. The Linux Foundation also provides a list of recommended resources that can help the candidate prepare for the certification exam.

Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q17-Q22):

NEW QUESTION # 17

Create an nginx pod with containerPort 80 and it should check the pod running at endpoint / healthz on port 80 and verify and delete the pod.

- A. `kubectl run nginx --image=nginx --restart=Always --port=80 --dry-run -o yaml > nginx-pod.yaml`
// add the livenessProbe section and create
apiVersion: v1

```

kind: Pod
metadata:
labels:
containers:
- image: nginx
name: nginx
ports:
- containerPort: 60
livenessProbe:
httpGet:
path: /healthz
port: 60
restartPolicy: Always
kubectl create -f nginx-pod.yaml
// verify
kubectl describe pod nginx | grep -i readiness
kubectl delete po nginx

```

- B. `kubectl run nginx --image=nginx --restart=Always --port=80 --dry-run -o yaml > nginx-pod.yaml`
// add the livenessProbe section and create
apiVersion: v1
kind: Pod
metadata:
labels:
run: nginx
name: nginx
spec:
containers:
- image: nginx
name: nginx
ports:
- containerPort: 80
livenessProbe:
httpGet:
path: /healthz
port: 80
restartPolicy: Always
kubectl create -f nginx-pod.yaml
// verify
kubectl describe pod nginx | grep -i readiness
kubectl delete po nginx

Answer: B

NEW QUESTION # 18

Check the Image version of nginx-dev pod using jsonpath

Answer:

Explanation:

```

kubectl get po nginx-dev -o
jsonpath='{.spec.containers[].image}' {"\n"}'

```

NEW QUESTION # 19

A recent deployment of a new version of your application caused a large number of pods to enter a 'CrashLoopBackOff' state. You need to identify the root cause of the issue and resolve it.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Identify the Failing Pods:

- Use 'kubectl get pods -l app=' to list the pods in the Deployment.
- Identify the pods that are in the 'CrashLoopBackOff' state.

2. Examine Pod Logs:

- Use 'kubectl logs -f' to view the logs of the failing pods.
- Look for error messages, stack traces, or other clues that can point to the root cause of the crash.
- For example, errors related to:
 - Missing dependencies or configuration: Check if the application is missing required configuration files or dependencies.
 - Incorrect resource usage: Look for errors related to memory or CPU limitations.
 - Network connectivity issues: Check for errors related to communication failures.

3. Check for Recent Changes:

- Review the changes made during the deployment:
- Analyze the updated deployment YAML file to identify any configuration changes that might have introduced the crash.
- Check for changes in container images, resource requests, or other settings.

4. Inspect Deployment Events:

- Use 'kubectl describe pod ' to view the pod's events:
- Look for events related to the crash, such as "Back-off restarting failed container" or "Container restarting".
- The events might provide insights into the timing of the crashes and the potential reasons.

5. Verify Network Connectivity:

- Test network connectivity from within the failing pods:
- Use 'kubectl exec -it -n bash' to enter a pod.
- Run 'ping' or 'curl' to test network connectivity to external resources.

6. Troubleshoot the Application Code:

- If the logs suggest a problem with the application code:
- Debug the application code: Analyze the code to find the source of the crashes.
- Consider rolling back the deployment to the previous version: Use 'kubectl rollout undo deployment ' to revert to the previous working version.

7. Address the Root Cause:

- Once you identify the root cause:
- Fix the underlying issue in the application code or deployment configuration.
- Apply the fixes: Update the deployment YAML file with the corrected configuration.
- Redeploy the application: Use 'kubectl apply -f' to redeploy the application with the fix.

NEW QUESTION # 20

You have a Deployment named 'web-app' running a web application with two pods. The web application is configured to access a database with the connection string stored in a ConfigMap named 'db-config'. You need to update the database connection string in the ConfigMap without restarting the pods.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Update the ConfigMap:

- Modify the 'db-config' ConfigMap to include the new connection string. This can be done using 'kubectl patch' or 'kubectl edit' commands. For instance, using 'kubectl patch':

```
kubectl patch configmap db-config -p '{"data": {"db-connection-string": "new-connection-string"}}'
```

2. Verify the Updated ConfigMap:

- Confirm the changes were applied to the ConfigMap by checking its data with 'kubectl get configmap db-config -o yaml':

```
kubectl get configmap db-config -o yaml
```

This should show the updated 'db-connection-string' value.

3. Observe the Pods:

- Monitor the pods in the 'web-app' Deployment. Since ConfigMaps are mounted as volumes, the updated connection string will automatically be available to the pods without any manual restarts. You can check the pods using 'get pods -l app=web-app'.

```
kubectl get pods -l app=web-app
```

4. Confirm Application Functionality:

- Verify that the web application is now using the updated database connection by performing relevant actions within the application, such as querying data or performing other operations.

NEW QUESTION # 21

You have a Kubernetes cluster with a 'default' namespace. You want to prevent any users from creating pods in this namespace. Create a ClusterRole and ClusterRoleBinding to achieve this restriction.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

Step 1: Create a ClusterRole to deny pod creation in the 'default' namespace.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRole
metadata:
  name: deny-pod-creation-default
rules:
- apiGroups: ["apps"]
  resources: ["pods"]
  verbs: ["create"]
  resourceNames: ["default"]
namespaceSelector:
  matchLabels:
    kubernetes.io/metadata.name: default
```

Step 2: Create a ClusterRoleBinding to apply the ClusterRole to all users.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
metadata:
  name: deny-pod-creation-default-binding
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: ClusterRole
  name: deny-pod-creation-default
subjects:
- kind: User
  apiGroup: rbac.authorization.k8s.io
  name: ""
```

We create a ClusterRole that specifically targets the 'default' namespace and denies 'create' permissions for pods. This ClusterRole uses 'resourceNames' and 'namespaceSelector' to precisely target the 'default' namespace. We create a ClusterRoleBinding that applies the ClusterRole to all users in the cluster. Applying the configurations: Use 'kubectl apply -f [filename].yaml' to apply the ClusterRole and ClusterRoleBinding YAML files. This will prevent anyone from creating pods in the 'default' namespace. This configuration is a powerful way to implement security policies and prevent unintended resource creation in sensitive namespaces. ,

NEW QUESTION # 22

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