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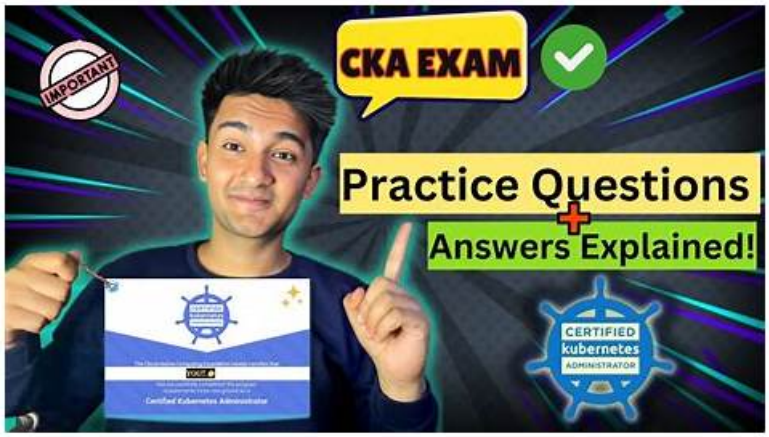

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The CKA exam is intended for individuals who have experience working with Kubernetes and are looking to validate their skills and knowledge. It is also suitable for individuals who are new to Kubernetes but have experience working with other containerization 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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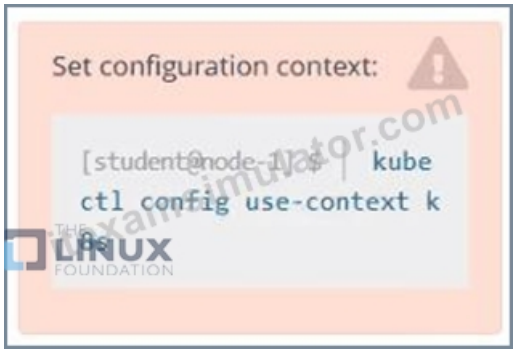
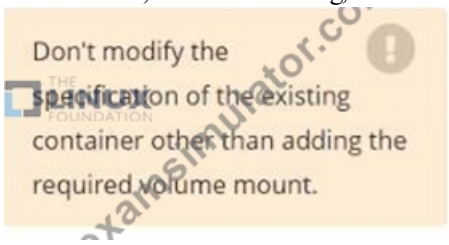
Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q34-Q39):

NEW QUESTION # 34
Score:7%



Context
An existing Pod needs to be integrated into the Kubernetes built-in logging architecture (e. g. kubectl logs).
Adding a streaming sidecar container is a good and common way to accomplish this requirement.
Task

Add a sidecar container named sidecar, using the busybox Image, to the existing Pod big-corp-app. The new sidecar container has to run the following command:
/bin/sh -c tail -n+1 -f /va r/log/big-corp-app.log
Use a Volume, mounted at /var/log, to make the log file big-corp-app.log available to the sidecar container.



Answer:

Explanation:
Solution:
#
kubectl get pod big-corp-app -o yaml
#
apiVersion: v1
kind: Pod
metadata:
name: big-corp-app
spec:
containers:
- name: big-corp-app
image: busybox
args:
- /bin/sh
- -c
- >
i=0;
while true;
do
echo "$(date) INFO $i" >> /var/log/big-corp-app.log;
i=$((i+1));
sleep 1;
done
volumeMounts:
- name: logs
mountPath: /var/log
- name: count-log-1
image: busybox
args: [/bin/sh, -c, 'tail -n+1 -f /var/log/big-corp-app.log']
volumeMounts:
- name: logs
mountPath: /var/log
volumes:
- name: logs
emptyDir: {
}
#
kubectl logs big-corp-app -c count-log-1

NEW QUESTION # 35
Get IP address of the pod - "nginx-dev"

- A. Kubect1 get po -o wide
  Using JsonPath

kubect1 get pods
.items[*]} {.metadata.name} {"\t"} {.status.podIP} {"\n"} {end}'

- B. Kubect1 get po -o wide
  Using JsonPath
  kubect1 get pods -o=jsonpath='{range
  .items[*]} {.metadata.name} {"\t"} {.status.podIP} {"\n"} {end}'

Answer: B

NEW QUESTION # 36
You are running an application in Kubernetes using a Deployment that defines 3 replicas. You need to perform a rolling update to the Deployment to upgrade the application to a new version. During the update process, you want to ensure that at least 2 replicas are always available, and the maximum number of new pods that can be created at the same time is also limited to 1. How can you configure the Deployment to achieve this rolling update strategy?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Update Deployment YAML:
- Update the 'spec.replicas' field to the desired number of replicas for the new version.
- In the 'spec.strategy.rollingUpdate' section, set the 'maxUnavailable' to 1, meaning that only one pod can be unavailable during the update process.
- Set the maxSurge' to 1, limiting the number of new pods that can be created simultaneously to 1.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-app
        image: my-app-image:latest
        imagePullPolicy: Always
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 1
      maxSurge: 1
```


2. Apply the Updated Deployment: - Use 'kubectl apply -f deployment.yaml' to apply the changes to your cluster. 3. Monitor the Update Process: - Use 'kubectl get pods -l app=my-app' to monitor the pods. You will see a rolling update in progress: - One old pod will be terminated at a time. - One new pod will be created at a time. - The update will continue until all replicas are updated to the new version. 4. Verify the Update: - Once the update is complete, use 'kubectl describe deployment my-deployment' to check the deployment status. The 'updatedReplicas' field should match the 'replicas' field, indicating that the update was successful. By using 'maxUnavailable' and 'maxSurge' you control the number of unavailable and surge pods during the update process. This ensures a safe and controlled rolling update strategy.,

NEW QUESTION # 37
You are tasked with setting up a Kubernetes cluster for a company with a strict security policy. They have two different teams: Development and Operations, with distinct access requirements.
The Development team needs read-only access to all resources and the ability to create and manage deployments, pods, and services. The Operations team needs full access to all resources, including cluster management, and the ability to perform actions like scaling, rolling updates, and troubleshooting.
Design a role-based access control (RBAC) configuration using Kubernetes resources (Role, RoleBinding, ClusterRole, ClusterRoleBinding) to grant appropriate access to each team.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
Step 1: Create a Role for the Development team:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: dev-role
  namespace: default
rules:
- apiGroups: ["apps", "extensions", "v1"]
  resources: ["deployments", "pods", "services"]
  verbs: ["get", "list", "watch", "create", "update", "delete", "patch"]
- apiGroups: [""]
  resources: [""]
  verbs: ["get", "list", "watch"]
```

Step 2: Create a RoleBinding for the Development team:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: dev-rolebinding
  namespace: default
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: dev-role
subjects:
- kind: User
  name: dev-user
  apiGroup: rbac.authorization.k8s.io
```

Step 3: Create a ClusterRole for the Operations team:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRole
metadata:
  name: ops-clusterrole
rules:
- apiGroups: [""]
  resources: [""]
  verbs: [""]
- nonResourceURLs: [""]
  verbs: [""]
```

Step 4: Create a ClusterRoleBinding for the Operations team:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
metadata:
  name: ops-clusterrolebinding
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: ClusterRole
  name: ops-clusterrole
subjects:
- kind: User
  name: ops-user
  apiGroup: rbac.authorization.k8s.io
```

The Role for the Development team grants specific permissions to create, manage, and view deployments, pods, and services. It also grants read-only access to all other resources. The RoleBinding links the "dev-role" to the "dev-user" account, allowing them to perform actions as defined by the Role. The ClusterRole for the Operations team provides full access to all cluster resources and allows them to perform any action, including cluster management tasks. The ClusterRoleBinding links the "ops-clusterrole" to the "ops-user" account, granting them complete control over the cluster. Note: You can replace "dev-user" and "ops-user" with actual user names or service accounts.

NEW QUESTION # 38
List all the pods showing name and namespace with a json path expression

Answer:

Explanation:
kubectl get pods -o=jsonpath="{.items[*]['metadata.name', 'metadata.namespace']}"

NEW QUESTION # 39
.....

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