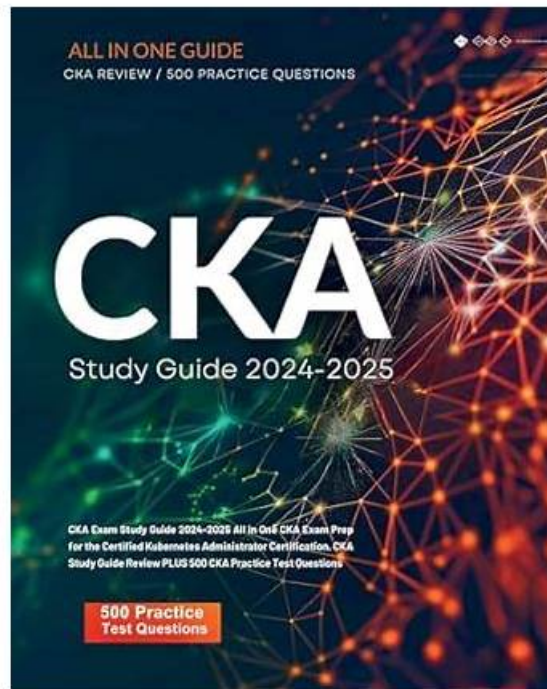


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Linux Foundation CKA: Certified Kubernetes Administrator (CKA) Program is a certification program that tests the skills and knowledge of individuals in managing and administering Kubernetes clusters. Kubernetes is an open-source container orchestration platform that is widely used in the industry for automating deployment, scaling, and management of containerized applications. The CKA program is designed to validate an individual's ability to design, configure, and manage Kubernetes clusters.

Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q72-Q77):

NEW QUESTION # 72

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 # 73

Create a busybox pod that runs the command "env" and save the output to "envpod" file See the solution below.

Answer:

Explanation:

```
kubectl run busybox --image=busybox --restart=Never --rm -it -- env > envpod.yaml
```

NEW QUESTION # 74

You have a two-tier application with a frontend service 'frontend-svc' exposing a Node.js application running in pods labeled 'app: frontend', and a backend service 'backend-svc' exposing a Python application running in pods labeled 'app: backend'. The frontend pods need to communicate with the backend pods through a service. Design a Kubernetes network setup that allows the frontend pods to access the backend service, ensuring that the backend service is reachable only by the frontend service and not directly from outside the cluster.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Service for the Backend:

- Define a Service for the backend pods:

```

apiVersion: v1
kind: Service
metadata:
  name: backend-svc
spec:
  selector:
    app: backend
  ports:
    - protocol: TCP
      port: 80
      targetPort: 8080
  type: ClusterIP

```

- This Service creates a ClusterIP service, accessible only within the cluster. The 'targetPort' specifies the port exposed by the backend pods. 2. Create a Service for the Frontend: - Define a Service for the frontend pods:

```

apiVersion: v1
kind: Service
metadata:
  name: frontend-svc
spec:
  selector:
    app: frontend
  ports:
    - protocol: TCP
      port: 80
      targetPort: 3000
  type: LoadBalancer

```

- This Service creates a LoadBalancer service, accessible from outside the cluster. 3. Configure NetworkPolicy for the Frontend Service: - Define a NetworkPolicy that allows traffic from the 'frontend-svc' to the 'backend-svc':

```

apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: frontend-to-backend
spec:
  podSelector:
    matchLabels:
      app: frontend
  ingress:
    - from:
        - podSelector:
            matchLabels:
              app: frontend-svc
  egress:
    - to:
        - podSelector:
            matchLabels:
              app: backend

```

- This NetworkPolicy allows ingress traffic from the 'frontend-svc' and egress traffic to the 'backend-svc'. 4. Apply the Configurations: - Apply the YAML files using 'kubectl apply -f backend-svc.yaml' , 'kubectl apply -f frontend-svc.yaml' , and

kubectl apply -f frontend-to-backend.yaml. 5. Verification: - Check the status of the services: 'kubectl get services' - Check the network policy status: 'kubectl get networkpolicies' Now, the frontend pods can communicate with the backend service through the 'backend-svc' service. External clients can access the frontend application through the 'frontend-svc' service. The backend service is not accessible directly from outside the cluster due to the NetworkPolicy restricting traffic from external sources.]

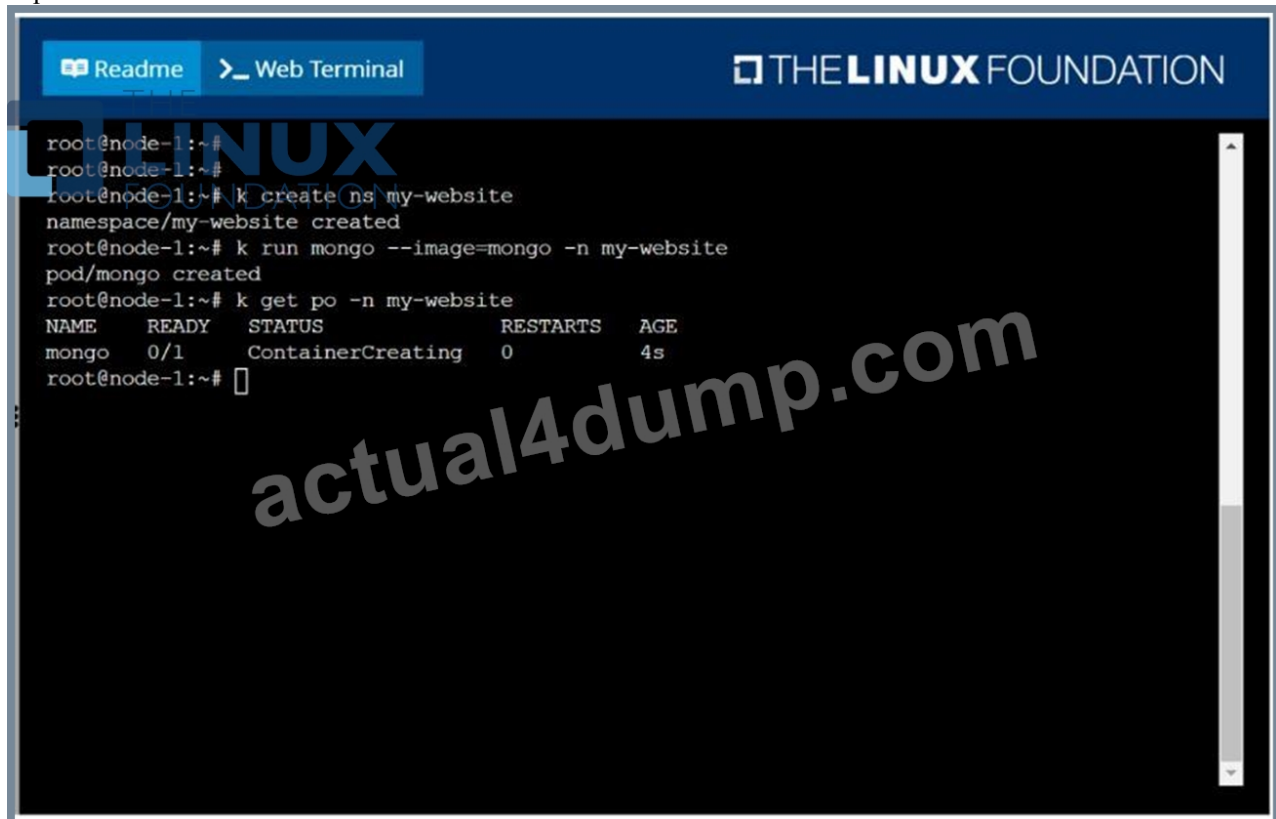
NEW QUESTION # 75

Create a pod as follows:

- * Name: mongo
- * Using Image: mongo
- * In a new Kubernetes namespace named: my-website

Answer:

Explanation:



```
root@node-1:~#  
root@node-1:~#  
root@node-1:~# k create ns my-website  
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:~#
```

NEW QUESTION # 76

You have a Deployment running a database application with a stateful application using a StatefulSet. How can you scale the database to handle increased read traffic without impacting the write performance for the stateful application?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Use a Read Replica:
 - Create a read replica of the database that replicates data from the primary database.
 - Use the read replica for read-only operations to distribute the read load.
2. Configure the StatefulSet:
 - Configure the StatefulSet to access the read replica for read-only operations.
 - Use a separate Service for the read replica and configure the StatefulSet to access it.
3. Implement a Load Balancer:
 - Use a Load Balancer to direct read traffic to the read replica and write traffic to the primary database.

- Configure the Load Balancer to use a specific port for read requests and another port for write requests.

4. Monitor Performance:

- Monitor the performance of both the primary database and the read replica.

- Ensure that the read replica is adequately handling the read load without impacting the write performance on the primary database.

5. Scale Read Replicas:

- If necessary, scale the number of read replicas to handle increased read traffic.

- Add more read replicas as needed and adjust the Load Balancer configuration to distribute the traffic evenly.

NEW QUESTION # 77

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