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The CKA program is an online, performance-based certification exam that tests candidates' skills in managing and deploying Kubernetes clusters. CKA exam is designed to evaluate the candidate's ability to perform real-world tasks using Kubernetes, such as installing and configuring Kubernetes, deploying applications, managing storage, and troubleshooting common issues. CKA Exam consists of 24 performance-based tasks that must be completed within three hours. Candidates must demonstrate their ability to complete these tasks efficiently and accurately to pass the exam.

>> CKA Training Questions <<

2026 High Hit-Rate Linux Foundation CKA Training Questions

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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q52-Q57):

NEW QUESTION # 52

You have a StatefulSet named 'mysql-cluster' running a MySQL database with 3 replicas. You want to add a new replica to the cluster without disrupting the existing database operations. How do you achieve this while ensuring data consistency and minimal downtime?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Scale up the StatefulSet:
- Increase the 'replicas' value in the StatefulSet definition from 3 to 4. Apply the change using 'kubectl apply -f mysql-cluster.yaml'

```
apiVersion: apps/v1
kind: StatefulSet
metadata:
  name: mysql-cluster
spec:
  replicas: 4
  # ... other StatefulSet configuration ...
```

2. Wait for the new pod to be created: - Monitor the pod creation process using 'kubectl get pods -l app=mysql-cluster'. Wait for the new pod to be created and enter a ready state. 3. Join the new pod to the cluster: - In the new pod's shell, execute the following command to join the existing MySQL cluster: Bash mysql -h -u -p -e "CHANGE MASTER TO MASTER PASSWORD=", MASTER DELAY=O" - Replace with the IP address of one of the existing MySQL replicas. - Replace , and '3306' with the appropriate values for your MySQL setup. 4. Verify the new replica is synchronized: - Use "SHOW SLAVE STATUS" command on the new replica to verify that it's successfully replicating data from the existing cluster. Ensure that the 'Slave 10 Running' and 'Slave SQL Running' statuses are both set to 'Yes'. 5. Promote the new replica: - Promote the new replica to a full member of the cluster by updating the StatefulSet definition to include the new pod's hostname. This will typically involve adding a new entry to the 'volumeClaimTemplates' section of the StatefulSet. 6. Test the cluster's health: - Run a series of read and write operations on the database to verify that the new replica is fully integrated and responding correctly. 7. Remove the old pod: - You can now delete the old pod that had the lowest pod index. This will trigger the automatic cleanup of the old volume, ensuring that only the healthy and synchronized replicas remain. By following these steps, you can add a new replica to your MySQL cluster while ensuring minimal downtime and preserving data consistency.]

NEW QUESTION # 53

Get the list of pods of webapp deployment

- A. // Get the label of the deployment
  kubectl get deploy --show-labels
  // Get the pods with that label
  kubectl get pods -l app=webapp
- B. // Get the label of the deployment
  kubectl get deploy --show-labels
  kubectl get pods -l app=webapp

Answer: A

NEW QUESTION # 54

You have a Deployment that runs a containerized application. The application requires access to a specific service running in a different namespace. You need to define a NetworkPolicy to allow traffic from the application's Pods to the service in the other namespace only on port 8080.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :

1. Network Policy Definition:

```yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: allow-service-access
  namespace:
spec:
  podSelector:
    matchLabels:
      app: application
  egress:
  - to:
    - namespaceSelector:
        matchLabels:
          service-namespace:
    ports:
    - protocol: TCP
      port: 8080
```
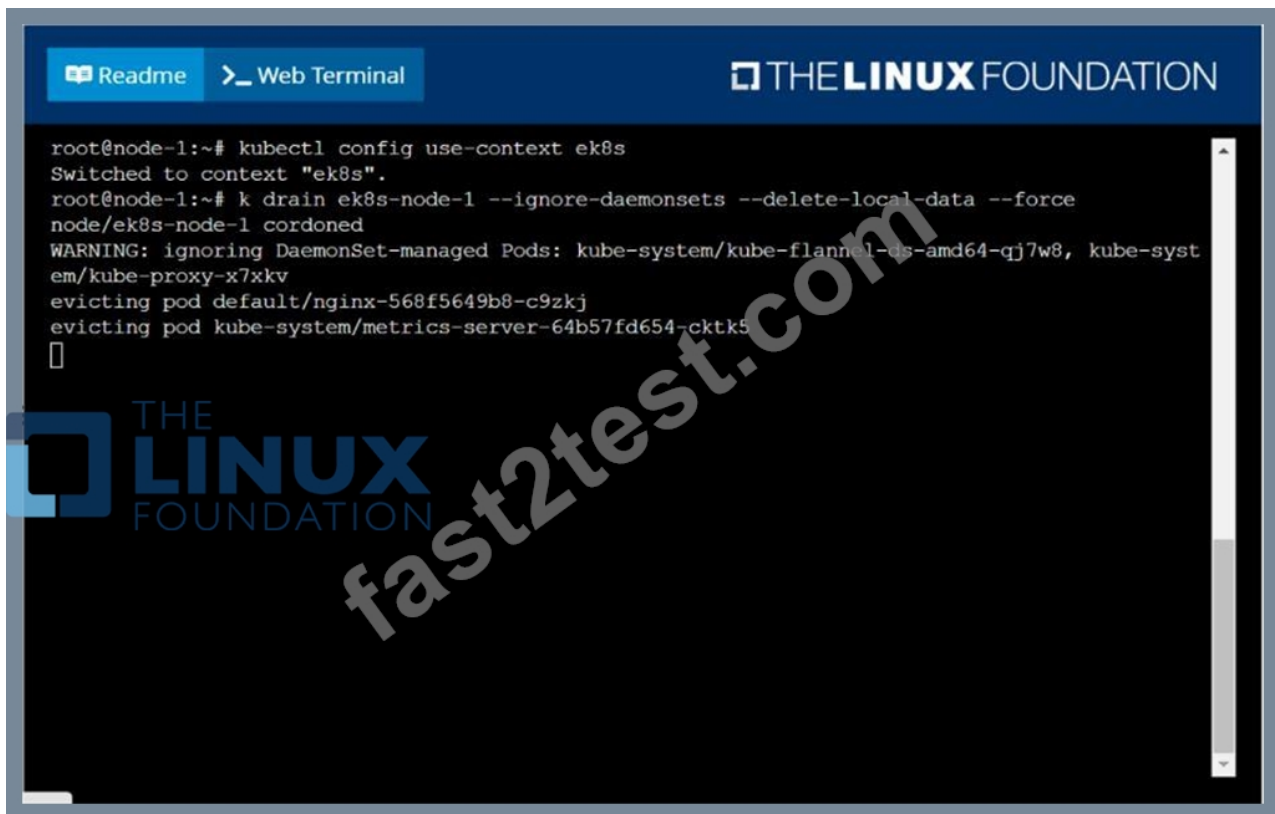
2. Explanation: - 'apiVersion: networking.k8s.io/v1 Specifies the API version for NetworkPolicy resources. - 'kind: NetworkPolicy': Specifies that this is a NetworkPolicy resource. - 'metadata.name: allow-service-access': Sets the name of the NetworkPolicy. - 'metadata.namespace: Specifies the namespace where the NetworkPolicy is applied. Replace with the actual namespace where your deployment is running. - 'spec.podSelector.matchLabels: app: application': This selector targets Pods labeled with 'app: application', ensuring the NetworkPolicy applies to the application Pods. - 'spec.egress.to.namespaceSelector.matchLabels: service-namespace: This allows outgoing traffic only to the namespace labeled with 'service-namespace: Replace with the actual namespace of the service. - 'spec.egress.ports.port: 8080': This allows communication only on port 8080. - 'spec.egress.ports.protocol: TCP': Specifies the protocol (TCP) for the allowed port. 3. How it works: - This NetworkPolicy allows outgoing traffic from the application Pods only to the specified service in the different namespace and only on port 8080. It effectively restricts communication from the application Pods to only the intended target service. 4. Implementation: - Apply the YAML using 'kubectl apply -f allow-service-access.yaml' 5. Verification: After applying the NetworkPolicy, test the connectivity from the application Pods to the service in the other namespace on port 8080. You should observe that the NetworkPolicy successfully enforces the restrictions, allowing access only to the specified port and service.]

NEW QUESTION # 55
Set the node named ek8s-node-1 as unavailable and reschedule all the pods running on it.

Answer:

Explanation:

NEW QUESTION # 56
Create a pod with image nginx called nginx and allow traffic on port 80

Answer:

Explanation:
See the solution below.
Explanation
kubectlrun nginx --image=nginx --restart=Never --port=80

NEW QUESTION # 57

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