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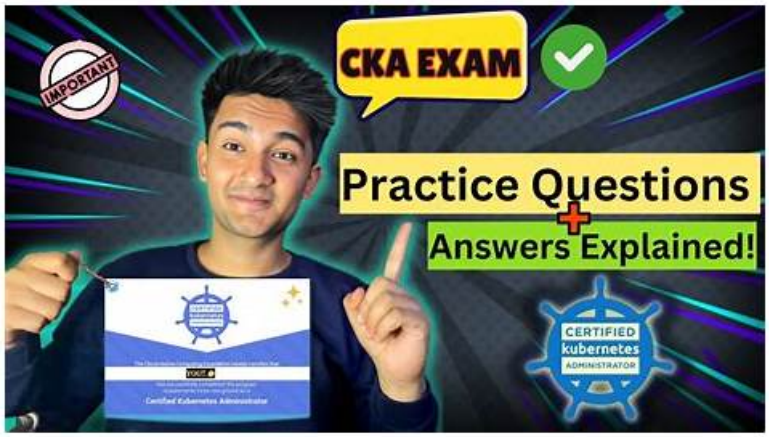

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Linux Foundation CKA (Certified Kubernetes Administrator) Program is a certification exam designed to test the skills of individuals who work with Kubernetes. Kubernetes is an open-source platform that is used to automate the deployment, scaling, and management of containerized applications. The CKA Exam is designed to validate an individual's understanding of Kubernetes and their ability to deploy, configure, and troubleshoot Kubernetes clusters.

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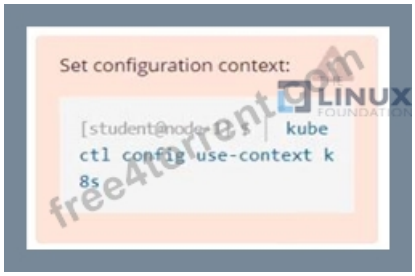
Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q25-Q30):

NEW QUESTION # 25
Score: 5%



Task
Monitor the logs of pod bar and:
* Extract log lines corresponding to error file-not-found
* Write them to /opt/KUTR00101/bar

Answer:

Explanation:
Solution:
kubectl logs bar | grep 'unable-to-access-website' > /opt/KUTR00101/bar cat /opt/KUTR00101/bar

NEW QUESTION # 26
Create a nginx pod with label env=test in engineering namespace

Answer:

Explanation:
See the solution below.
Explanation
kubectl run nginx --image=nginx --restart=Never --labels=env=test --namespace=engineering --dry-run -o yaml > nginx-pod.yaml
kubectl run nginx --image=nginx --restart=Never --labels=env=test --namespace=engineering --dry-run -o yaml | kubectl create -nengineering-f - YAML File:
apiVersion: v1
kind: Pod
metadata:
name: nginx
namespace: engineering
labels:
env: test
spec:
containers:
- name: nginx
image: nginx
imagePullPolicy: IfNotPresent
restartPolicy: Never
kubectl create -f nginx-pod.yaml

NEW QUESTION # 27
You have a Kubernetes cluster with three nodes. Nodel and Node2 are in the 'default' availability zone, while Node3 is in the 'us-east-I a' availability zone. You want to ensure that pods are spread across all three nodes, considering the availability zones. Describe how to configure the cluster to achieve this goal, specifically addressing how to leverage 'nodeSelector' and/or 'affinity' to enforce desired node placement. Explain the rationale behind your chosen approach.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
Step 1: Configure Node Labels
Label each node with its corresponding availability zone:
For Node1 and Node2 (in 'default' availability zone):
kubectl label node availability-zone=default
For Node3 (in availability zone):
kubectl label node availability-zone=us-east-Ia
Step 2: Use Node Selector
Use 'nodeSelector' in your Deployment or Pod definition to specify the desired availability zone:

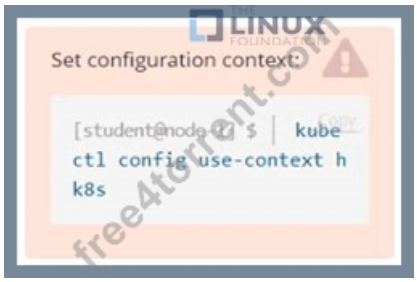
```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:1.14.2
        nodeSelector:
          availabilitv-zone: us-east-1a
```


This ensures pods with the 'nginx-deployment' label will be scheduled only on Node3. Step 3: Use Affinity (Optional) You can also use 'affinity' for more fine-grained control. For example, to ensure that pods are spread across different availability zones:

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:1.14.2
      affinity:
        podAntiAffinity:
          preferredDuringSchedulingIgnoredDuringExecution:
          - weight: 100
            podAffinityTerm:
              labelSelector:
                matchExpressions:
                - key: availability-zone
                  operator: In
                  values:
                  - default
                  - us-east-1a
              topologyKey: topology.kubernetes.io/zone
```


This configuration will prefer scheduling pods in different availability zones. Rationale: Node Selector: Provides a simple mechanism to direct pods to specific nodes based on labels. Affinity: Offers more advanced options, including 'podAntiAffinity" to spread pods across nodes (or availability zones) and 'podAffinity' to ensure pods are scheduled on the same node. Availability Zone: Distributes pods across different zones for high availability, as failures in one zone won't impact pods scheduled in other zones. ,

NEW QUESTION # 28
Score: 7%



Task
Create a new NetworkPolicy named allow-port-from-namespace in the existing namespace echo. Ensure that the new NetworkPolicy allows Pods in namespace my-app to connect to port 9000 of Pods in namespace echo.

Further ensure that the new NetworkPolicy:
* does not allow access to Pods, which don't listen on port 9000
* does not allow access from Pods, which are not in namespace my-app

Answer:

Explanation:
Solution:
#network.yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: allow-port-from-namespace
namespace: internal
spec:
podSelector:
matchLabels: {
}
policyTypes:
- Ingress
ingress:
- from:
- podSelector: {
}
ports:
- protocol: TCP
port: 8080
#spec.podSelector namespace pod
kubectl create -f network.yaml

NEW QUESTION # 29
You have a 'NodePort' service named 'my-service' exposed on port 30000. You need to configure a NetworkPolicy to only allow access to the service from specific nodes in the cluster based on their node labels.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a NetworkPolicy:
- Define a NetworkPolicy that allows traffic from nodes with specific labels to the service.

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: allow-specific-nodes
  namespace:
spec:
  podSelector:
    matchLabels:
      app: my-service # Match the service label
  ingress:
  - from:
    - ipBlock:
        cidr: 10.244.0.0/16 # Example: CIDR for the nodes you want to allow access
        except:
        - ipBlock:
            cidr: 10.244.0.1/32  # Exclude specific node IPs if necessary
    - ipBlock:
        cidr: 172.17.0.0/16  # Another CIDR for nodes
```

2. Apply the NetworkPolicy: - Apply the YAML file using 'kubectl apply -f networkpolicy.yaml'. 3. Verify the NetworkPolicy: - Check the status of the NetworkPolicy using 'kubectl get networkpolicies allow-specific-nodes -n . 4. Test: - Access the service using the 'NodePort' on a node with the specified label. You should be able to access the service. - Access the service using the 'NodePort' on a node that does not have the specified label. You should not be able to access the service. Note: - Replace with the actual namespace where your service is located. - Replace the CIDR values with the actual CIDRs of your nodes or the node labels that you want to use for filtering.,

NEW QUESTION # 30

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