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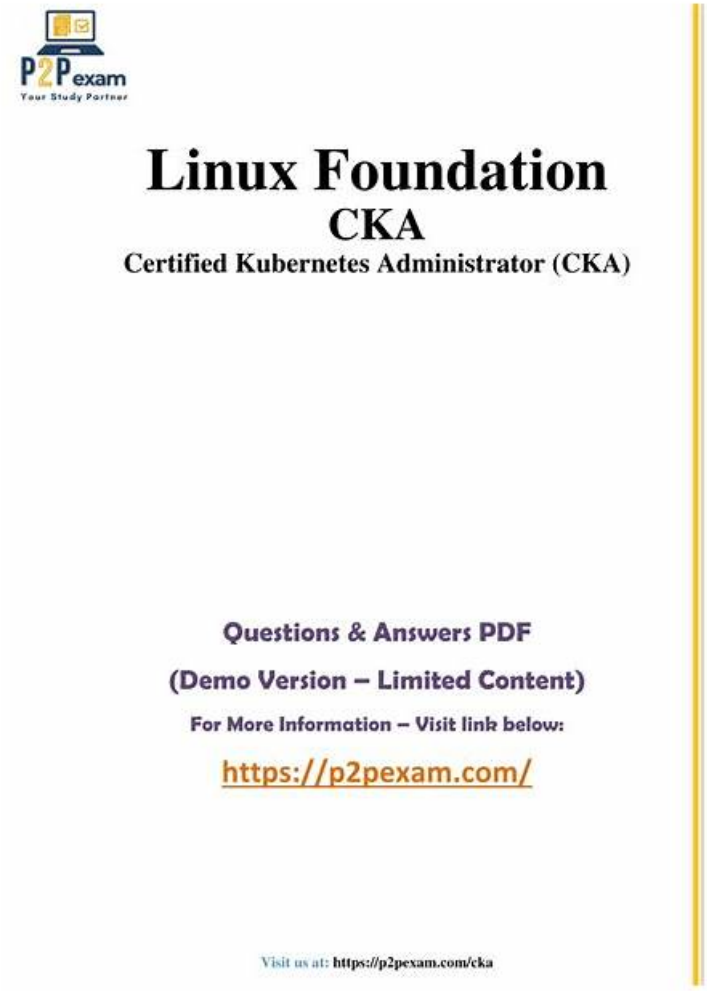

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Linux Foundation Certified Kubernetes Administrator (CKA) program is a globally recognized certification that validates the skills and knowledge of Kubernetes administrators. The CKA exam tests the ability of administrators to design, deploy, configure, and manage Kubernetes clusters. CKA exam covers a wide range of topics that include Kubernetes architecture, installation, configuration, security, troubleshooting, and automation.

Linux Foundation CKA (Certified Kubernetes Administrator) program certification exam is a highly sought-after certification among IT professionals. Kubernetes is an open-source container orchestration platform that automates the deployment, scaling, and management of containerized applications. The CKA certification exam validates the skills and knowledge required to manage and maintain Kubernetes clusters in production environments.

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CKA Latest Torrent - Exam CKA Overview

Different from the common question bank on the market, CKA exam guide is a scientific and efficient learning system that is

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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q81-Q86):

NEW QUESTION # 81
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:
          availability-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 # 82
Print all pod name and all image name and write it to a file
name "/opt/pod-details.txt"

Answer:

Explanation:
kubectl get pods -o=custom-columns='Pod Name:metadata.name','Image:spec.containers[*].image' > /opt/pod-details.txt

NEW QUESTION # 83
You have a Kubernetes cluster with a service account named "my-sa" in the "my-namespace" namespace. You need to grant the service account the ability to read and write secrets in the "my-namespace" namespace and the ability to create pods in that namespace.

Create a Role and RoleBinding to achieve this using kubectl commands.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1 . Create the Role: Use the following command to create a role called 'sa-secret-pod-writer' in the 'my- namespace' namespace:
kubectl create role sa-secret-pod-writer--namespace=my-namespace --verb=get--verb=list --verb=watch verb=create --verb=update --verb=delete --verb=patch --resource=secrets --resource=pods --api-groups=""
2. Create the RoleBinding: Bind the role to the service account using the following command:
kubectl create rolebinding sa-secret-pod-writer-binding --namespace=my-namespace --role=sa-secret-pod- writer --serviceaccount=my-namespace:my-sa
3. Verify Access: Try running a pod using the service account "my-sa" in the "my-namespace" namespace. You should be able to successfully create the pod and access secrets within the namespace. You can test this by creating a pod definition with the 'serviceAccountName: my-sa' and include a volume mount to a secret within the "my-namespace" namespace.,

NEW QUESTION # 84
You have a Kubernetes cluster with a multi-tenant setup where different teams manage their own applications. You need to enforce a policy where only developers from the "engineering" team can create deployments for applications within the "dev" namespace. How would you implement this using RBAC?

Answer:

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

```yaml
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: engineering-role
  namespace: dev
rules:
- apiGroups: ["apps"]
  resources: ["deployments"]
  verbs: ["create"]
```

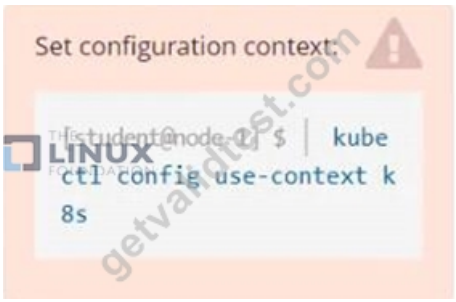
Step 2: Create a RoleBinding to assign the role to the "engineering" team

```yaml
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: engineering-rolebinding
  namespace: dev
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: engineering-role
subjects:
- kind: User
  name: john.doe@example.com
  apiGroup: rbac.authorization.k8s.io
```

- The Role defines the permissions for the "engineering" team, allowing them to create deployments in the "dev" namespace. - The RoleBinding associates the "engineering-role" with the user "john.doe@example.com" (representing a developer from the "engineering" team). Step 3: Validate the setup - A developer from the "engineering" team should be able to create deployments in the "dev" namespace. - Other users or teams without the appropriate permissions should be prevented from creating deployments in

the "dev" namespace.

NEW QUESTION # 85
Score: 7%



Task
Reconfigure the existing deployment front-end and add a port specification named http exposing port 80/tcp of the existing container nginx.
Create a new service named front-end-svc exposing the container port http.
Configure the new service to also expose the individual Pods via a NodePort on the nodes on which they are scheduled.

Answer:

Explanation:
Solution:
kubectl get deploy front-end
kubectl edit deploy front-end -o yaml
#port specification named http
#service.yaml
apiVersion: v1
kind: Service
metadata:
name: front-end-svc
labels:
app: nginx
spec:
ports:
- port: 80
protocol: tcp
name: http
selector:
app: nginx
type: NodePort
kubectl create -f service.yaml
kubectl get svc
port specification named http
kubectl expose deployment front-end --name=front-end-svc --port=80 --tarport=80 --type=NodePort

NEW QUESTION # 86
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