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The CKA exam evaluates the candidate's proficiency in various Kubernetes concepts such as installation and configuration, application lifecycle management, networking, security, and storage. It is a performance-based exam that requires the candidate to demonstrate their skills in a real-world scenario through a series of hands-on tasks. CKA exam is conducted online, and the candidate is provided with a command-line interface to access a live Kubernetes cluster. CKA Exam is timed, and the candidate has three hours to complete the assigned tasks. The CKA certification is an excellent way for professionals to demonstrate their expertise in Kubernetes and gain recognition for their skills in the industry.

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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q13-Q18):

NEW QUESTION # 13
Create 2 nginx image pods in which one of them is labelled with env=prod and another one labelled with env=dev and verify the same.

Answer:

Explanation:
kubectl run --generator=run-pod/v1 --image=nginx -- labels=env=prod nginx-prod --dry-run -o yaml > nginx- prodpod.yaml Now, edit nginx-prod-pod.yaml file and remove entries like "creationTimestamp: null"
"dnsPolicy: ClusterFirst"
vim nginx-prod-pod.yaml
apiVersion: v1
kind: Pod
metadata:

labels:
env: prod
name: nginx-prod
spec:
containers:
- image: nginx
name: nginx-prod
restartPolicy: Always
kubectl create -f nginx-prod-pod.yaml
kubectl run --generator=run-pod/v1 --image=nginx --
labels=env=dev nginx-dev --dry-run -o yaml > nginx-dev-pod.yaml
apiVersion: v1
kind: Pod
metadata:
labels:
env: dev
name: nginx-dev
spec:
containers:
- image: nginx
name: nginx-dev
restartPolicy: Always
kubectl create -f nginx-prod-dev.yaml
Verify :
kubectl get po --show-labels
kubectl get po -l env=prod
kubectl get po -l env=dev

NEW QUESTION # 14
Resume the rollout of the deployment

Answer:

Explanation:
kubectl rollout resume deploy webapp

NEW QUESTION # 15
You are managing a Kubernetes cluster for a company with multiple teams working on different projects. You want to implement RBAC to ensure each team has access only to the resources they need.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Team A (developers) needs to create and manage deployments, pods, and services in the "dev" namespace.
Team B (ops) needs to manage the cluster's overall health and can access all resources in all namespaces.
Team C (security) needs to audit and monitor all cluster activity but cannot modify any resources.
Create a YAML file to define the roles and role bindings to implement this RBAC setup.
Solution (Step by Step) :
1 . Create the "dev" namespace:
kubectl create namespace dev
2. Define the "dev-team" role:

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

3. Create the "dev-team" role binding:

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

4. Define the "ops-team" role:

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

5. Create the "ops-team" role binding:

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

6. Define the "security-team" role:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRole
metadata:
  name: security-team
rules:
- apiGroups: [""]
  resources: [""]
  verbs: ["get", "list", "watch"]
```

7. Create the "security-team" role binding:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
metadata:
  name: security-team-binding
subjects:
- kind: User
  name: security-user
  apiGroup: rbac.authorization.k8s.io
roleRef:
  kind: ClusterRole
  name: security-team
  apiGroup: rbac.authorization.k8s.io
```

8. Apply the YAML file to the cluster: kubectl apply -f rbac-config.yaml

NEW QUESTION # 16
You have a Kubernetes cluster running several applications. You want to implement a network policy that allows traffic only between pods within the same deployment and denies all other traffic. How can you achieve this using NetworkPolicies?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a NetworkPolicy:
- Create a NetworkPolicy in the namespace where the deployments are located.
- Code:

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: allow-traffic-within-deployment
  namespace: default # Replace with the namespace where the deployments are located
spec:
  podSelector: {}
  ingress:
  - from:
    - podSelector: {}
  egress:
  - to:
    - podSelector: {}
  policyTypes:
  - Ingress
  - Egress
```

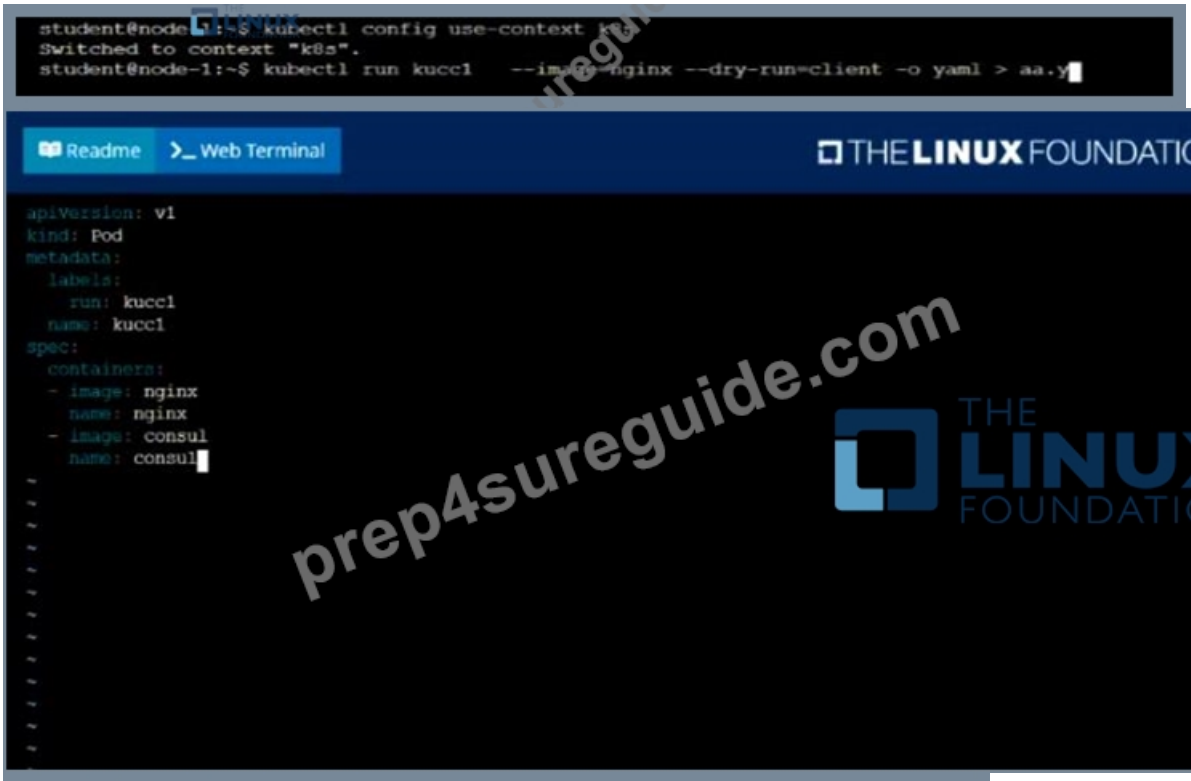
2. Apply the NetworkPolicy: - Apply the NetworkPolicy using 'kubectl apply -f networkpolicy.yaml'

NEW QUESTION # 17
Task Weight: 4%

Task
Schedule a Pod as follows:
* Name: kucc1
* App Containers: 2
* Container Name/Images:
o nginx
o consul

Answer:

Explanation:
Solution:



NEW QUESTION # 18
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