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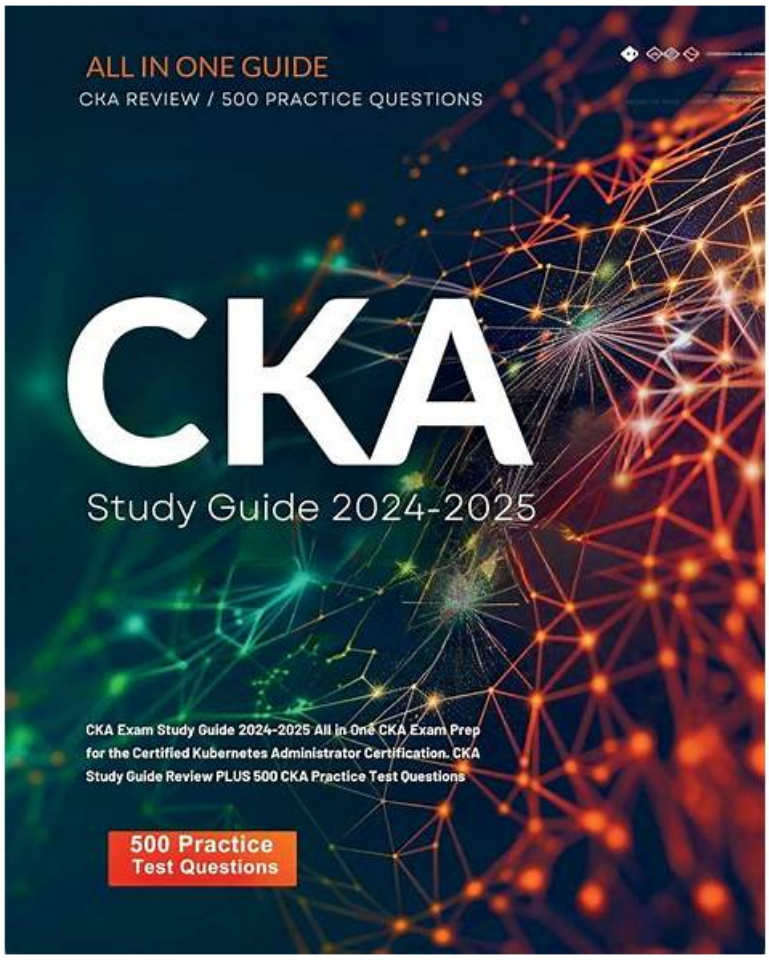

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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q76-Q81):

NEW QUESTION # 76
You have a Deployment named 'mysql-deployment' running a MySQL database server. You need to store the MySQL root password securely using a Secret. This password should be used by the database server when it starts.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create the Secret:
- Create a Secret named 'mysql-password' to store the root password.
- Use the 'kubectl create secret generic' command with the '--from-literal' flag to create a generic Secret with a key-value pair:
kubectl create secret generic mysql-password -from-literal=mysql-root password="your_strong_password"
2. Modify the Deployment:
- Update the 'mysql-deployment' Deployment's Pod template to mount the mysql-password' Secret as a volume.
- Use 'volumeMounts' to specify where the Secret should be mounted within the container, and 'volumes' to define the Secret as a volume source.
- Update the MySQL server's configuration (e.g., the 'my.cnf file) to read the password from the mounted volume.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: mysql-deployment
spec:
  replicas: 1
  selector:
    matchLabels:
      app: mysql
  template:
    metadata:
      labels:
        app: mysql
    spec:
      containers:
      - name: mysql
        image: mysql:5.7
        volumeMounts:
      - name: mysql-password-volume
        mountPath: /var/run/secrets/mysql/password
  volumes:
  - name: mysql-password-volume
    secret:
      secretName: mysql-password
```


3. Apply the Changes: - Apply the modified Deployment YAML using 'kubectl apply -f mysql-deployment.yamP. 4. Restart the MySQL Pod: - Restart the MySQL pod for it to read the password from the mounted volume. This can be achieved using 'kubectl

delete pod'. 5. Verify the Password: - Connect to the MySQL database using the provided password and confirm it works correctly.

NEW QUESTION # 77
You are tasked with securing a Kubernetes cluster by implementing RBAC. Your cluster has two namespaces: 'dev' and 'prod'. You need to create a role that allows users in the 'dev' namespace to create, delete, and list deployments, but only read-only access to deployments in the 'prod' namespace. Additionally, these users should have access to create and manage ConfigMaps within both namespaces.
Create the necessary RBAC resources (Role, RoleBinding) to implement this access control policy.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
Step 1: Create a Role for the 'dev' namespace.

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

Step 2: Create a Role for the 'prod' namespace.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: prod-deployment-role
  namespace: prod
rules:
- apiGroups: ["apps"]
  resources: ["deployments"]
  verbs: ["get", "list"]
```

Step 3: Create a RoleBinding in the 'dev' namespace.

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

Step 4: Create a RoleBinding in the 'prod' namespace.

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

Step 5: Apply the YAML files to the cluster.

```
kubectl apply -f dev-deployment-role.yaml
kubectl apply -f prod-deployment-role.yaml
kubectl apply -f dev-deployment-binding.yaml
kubectl apply -f prod-deployment-binding.yaml
```

Now, the 'dev-user' can create, delete, and list deployments within the 'dev' namespace. They can only view deployments in the 'prod' namespace. They can also create and manage ConfigMaps in both namespaces.

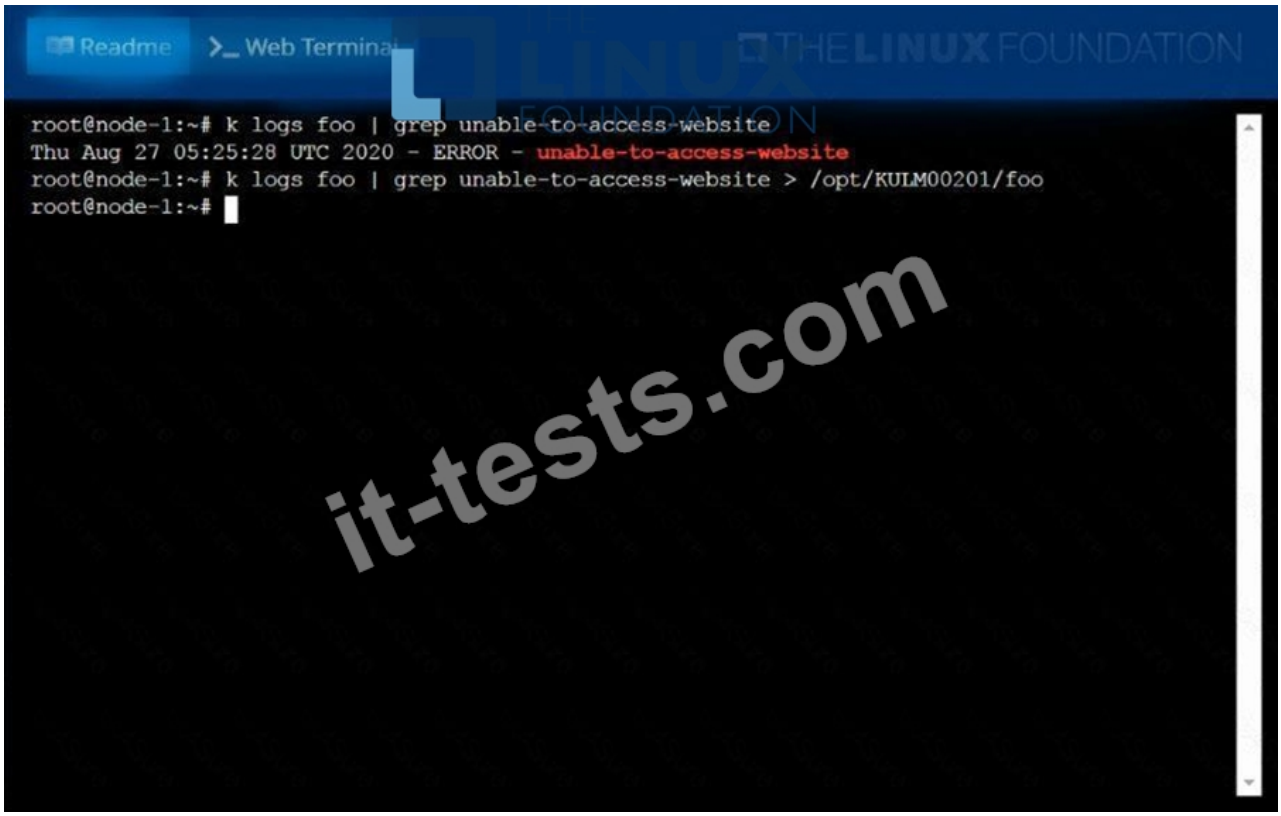
NEW QUESTION # 78

Monitor the logs of pod foo and:

* Extract log lines corresponding unable-to-access-website
* Write them to/opt/KULM00201/foo

Answer:

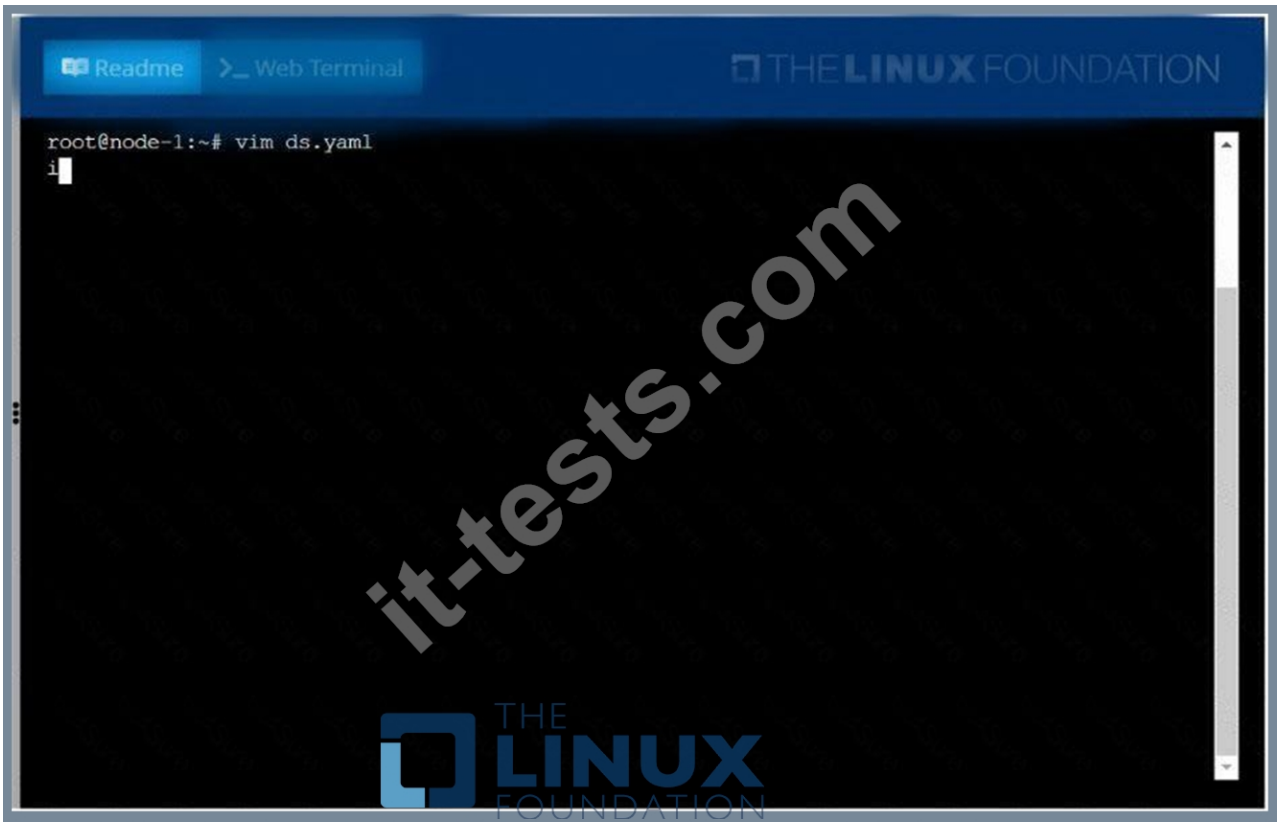
Explanation:
See the solution below.
Explanation
solution

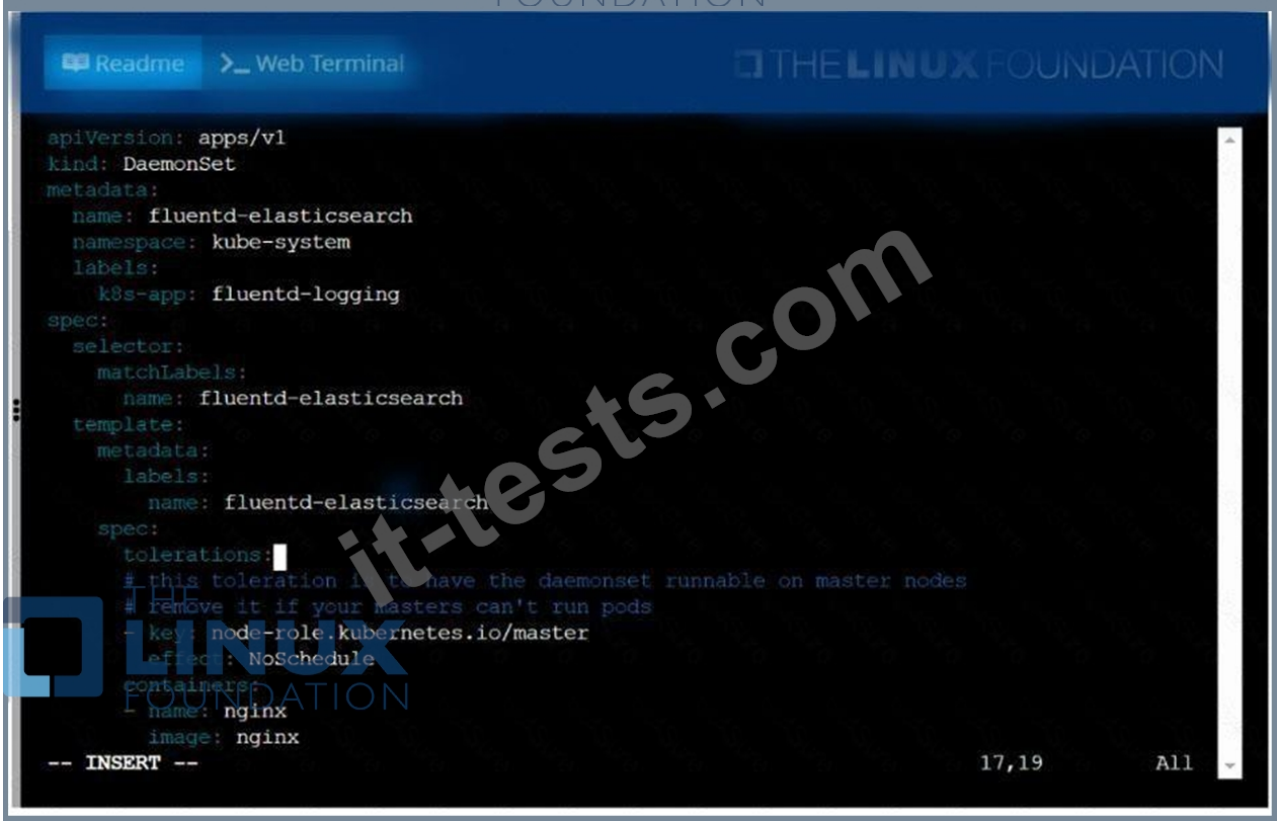


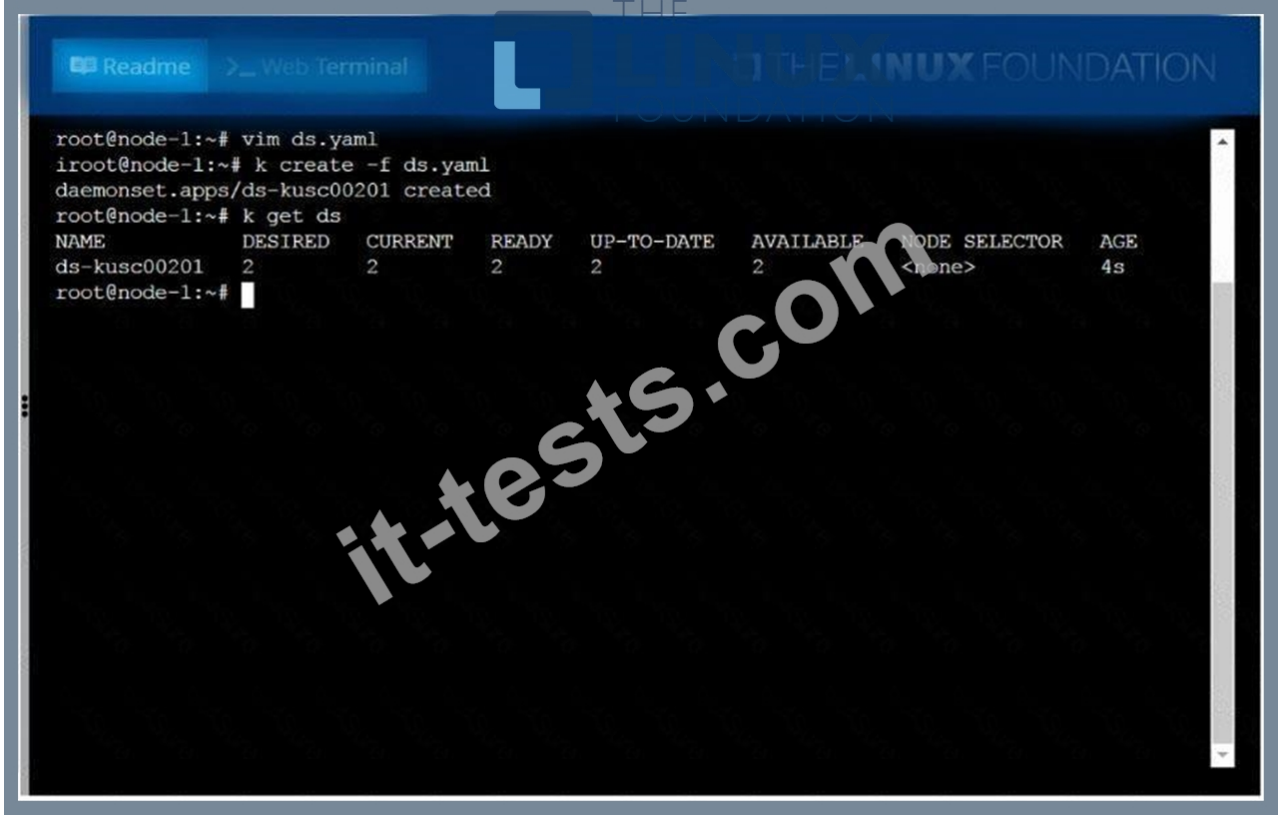
NEW QUESTION # 79
Ensure a single instance of podnginxis running on each node of theKubernetes cluster wherenginxalso represents the Image name whichhas to be used. Do not override anytaints currently in place.
UseDaemonSetto complete thistask and useds-kusc00201asDaemonSet name.

Answer:

Explanation:
See the solution below.
Explanation
solution


Readme
Web Terminal
THE LINUX FOUNDATION
root@node-1:~# vim ds.yaml
i


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: apps/v1
kind: DaemonSet
metadata:
name: fluentd-elasticsearch
namespace: kube-system
labels:
k8s-app: fluentd-logging
spec:
selector:
matchLabels:
name: fluentd-elasticsearch
template:
metadata:
labels:
name: fluentd-elasticsearch
spec:
tolerations:
this toleration is to have the daemonset runnable on master nodes
remove it if your masters can't run pods
- key: node-role.kubernetes.io/master
effect: NoSchedule
containers:
- name: nginx
image: nginx
-- INSERT --
17,19
All



NEW QUESTION # 80
You are running an application in Kubernetes using a Deployment that defines 3 replicas. You need to perform a rolling update to the Deployment to upgrade the application to a new version. During the update process, you want to ensure that at least 2 replicas are always available, and the maximum number of new pods that can be created at the same time is also limited to 1. How can you configure the Deployment to achieve this rolling update strategy?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Update Deployment YAML:
- Update the 'spec.replicas' field to the desired number of replicas for the new version.
- In the 'spec.strategy.rollingUpdate' section, set the 'maxUnavailable' to 1, meaning that only one pod can be unavailable during the update process.
- Set the maxSurge' to 1, limiting the number of new pods that can be created simultaneously to 1.

2. Apply the Updated Deployment: - Use 'kubectl apply -f deployment.yaml' to apply the changes to your cluster. 3. Monitor the Update Process: - Use 'kubectl get pods -l app=my-app' to monitor the pods. You will see a rolling update in progress: - One old pod will be terminated at a time. - One new pod will be created at a time. - The update will continue until all replicas are updated to the new version. 4. Verify the Update: - Once the update is complete, use 'kubectl describe deployment my-deployment' to check the deployment status. The 'updatedReplicas' field should match the 'replicas' field, indicating that the update was successful. By using 'maxUnavailable' and 'maxSurge' you control the number of unavailable and surge pods during the update process. This ensures a safe and controlled rolling update strategy.,

NEW QUESTION # 81
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