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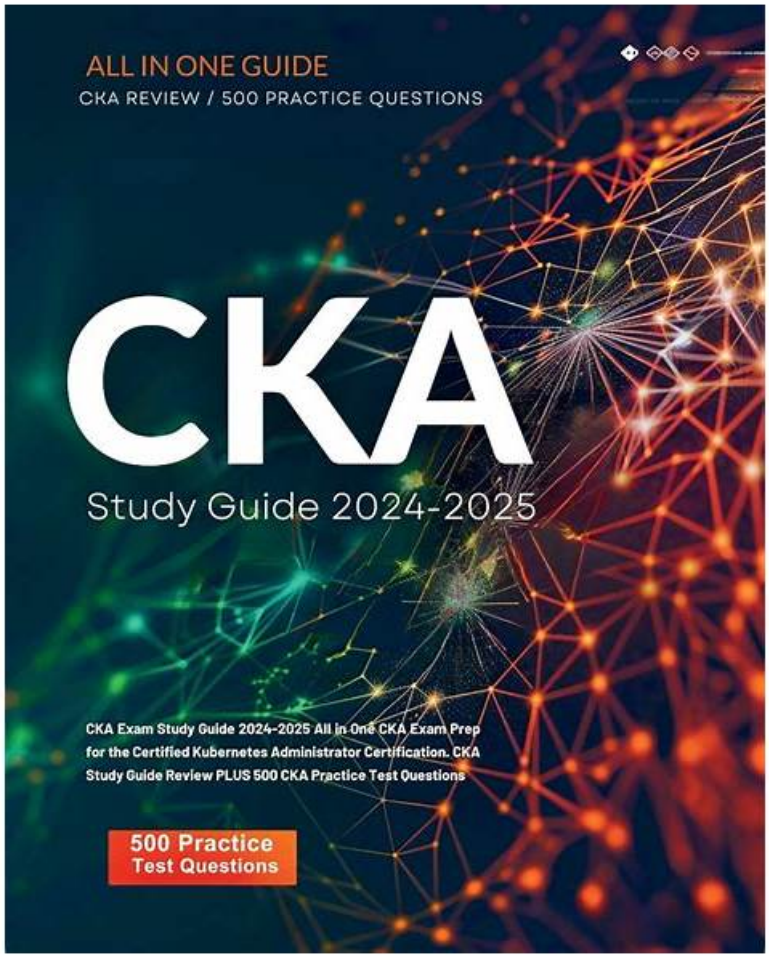

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The CKA exam is designed to test an individual's ability to perform real-world tasks in a Kubernetes environment. CKA exam is conducted online and consists of a set of performance-based tasks that need to be completed within a given time frame. CKA exam covers a range of topics such as Kubernetes architecture, installation and configuration, networking, storage, security, and troubleshooting. CKA Exam is challenging and requires a high level of expertise in Kubernetes administration. However, passing the exam is a testament to an individual's skills and knowledge in Kubernetes and can lead to better job opportunities and career growth in the industry.

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CKA Guide Quiz helped over 98 percent of exam candidates get the certificate. Before you really attend the Linux Foundation CKA exam and choose your materials, we want to remind you of the importance of holding a certificate like this one. Obtaining a Linux Foundation CKA certificate likes this one can help you master a lot of agreeable outcomes in the future, like higher salary, the opportunities to promotion and being trusted by the superiors and colleagues.

Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q36-Q41):

NEW QUESTION # 36
Score: 4%

Task
Create a persistent volume with name app-data , of capacity 1Gi and access mode ReadOnlyMany. The type of volume is hostPath and its location is /srv/app-data .

Answer:

Explanation:
Solution:
#vi pv.yaml
apiVersion: v1
kind: PersistentVolume
metadata:
name: app-config
spec:
capacity:
storage: 1Gi
accessModes:
- ReadOnlyMany
hostPath:
path: /srv/app-config
#
kubectl create -f pv.yaml

NEW QUESTION # 37
You have a deployment named 'redis-deployment' running a Redis server with 3 replicas. You need to configure a service with the 'NodePort' type to expose Redis on all nodes in the cluster, but restrict access only from specific pods within a namespace.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a NetworkPolicy:
- Define a NetworkPolicy resource that allows traffic from specific pods in a namespace to the Redis service.

```yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: allow-specific-pods-to-redis
  namespace:
spec:
  podSelector:
    matchLabels:
      app: redis # Match the Redis service label
  ingress:
  - from:
    - podSelector:
        matchLabels:
          app: allowed-app # Match label of pods allowed to access Redis
```

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2. Create the NodePort service: - Create a NodePort service for the Redis deployment, allowing access to the Redis server through all nodes in the cluster.

```yaml
apiVersion: v1
kind: Service
metadata:
  name: redis-service
  namespace:
spec:
  type: NodePort
  ports:
  - port: 6379
    targetPort: 6379
    nodePort: 30000  # Choose an available NodePort range
  selector:
    app: redis
```

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3. Apply the resources: - Apply the NetworkPolicy and service using 'kubectl apply -f networkpolicy.yaml' and 'kubectl apply -f redis- service.yamP. 4. Verify: - Check the status of the NetworkPolicy and service: - 'kubectl get networkpolicies allow-specific-pods-to-redis -n - 'kubectl get services redis-service -n 5. Test: - From a pod labeled with 'app: allowed-app', try to connect to the Redis service using the NodePort on the node. - From a pod that doesn't have the 'allowed-app' label, attempt to connect to the Redis service using the NodePort. You should not be able to connect. Note: Replace with the actual namespace where your Redis deployment and the pods allowed to access it are located.

NEW QUESTION # 38
You have a Deployment running a web application that receives a significant amount of traffic. You need to implement a strategy to scale the Deployment based on the traffic load while ensuring that the application remains available during the scaling process.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Use a Deployment:
- Deploy the web application using a Deployment with the desired number of replicas.
2. Define a Service:
- Create a Service that exposes the application to the outside world.
- Use a 'type: LoadBalancer' to distribute traffic across the pods.
3. Implement Horizontal Pod Autoscaler (HPA):
- Create an HPA that monitors the web application's CPU usage.

- Configure the HPA to scale the Deployment based on the CPU utilization.

```
apiVersion: autoscaling/v2beta2
kind: HorizontalPodAutoscaler
metadata:
  name: web-app-hpa
spec:
  scaleTargetRef:
    apiVersion: apps/v1
    kind: Deployment
    name: web-app
  minReplicas: 1
  maxReplicas: 10
  metrics:
  - type: Resource
    resource:
      name: cpu
      target:
        type: Utilization
        averageUtilization: 50
```

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4. Test the Autoscaling: - Simulate increased traffic to the web application. - Observe the HPA scaling the Deployment to meet the demand. 5. Monitor the Service: - Monitor the web application's performance and ensure that it remains available and stable during scaling. 6. Adjust HPA Configuration: - Fine-tune the HPA configuration to optimize scaling based on specific performance needs.

NEW QUESTION # 39
Create a busybox pod and add "sleep 3600" command

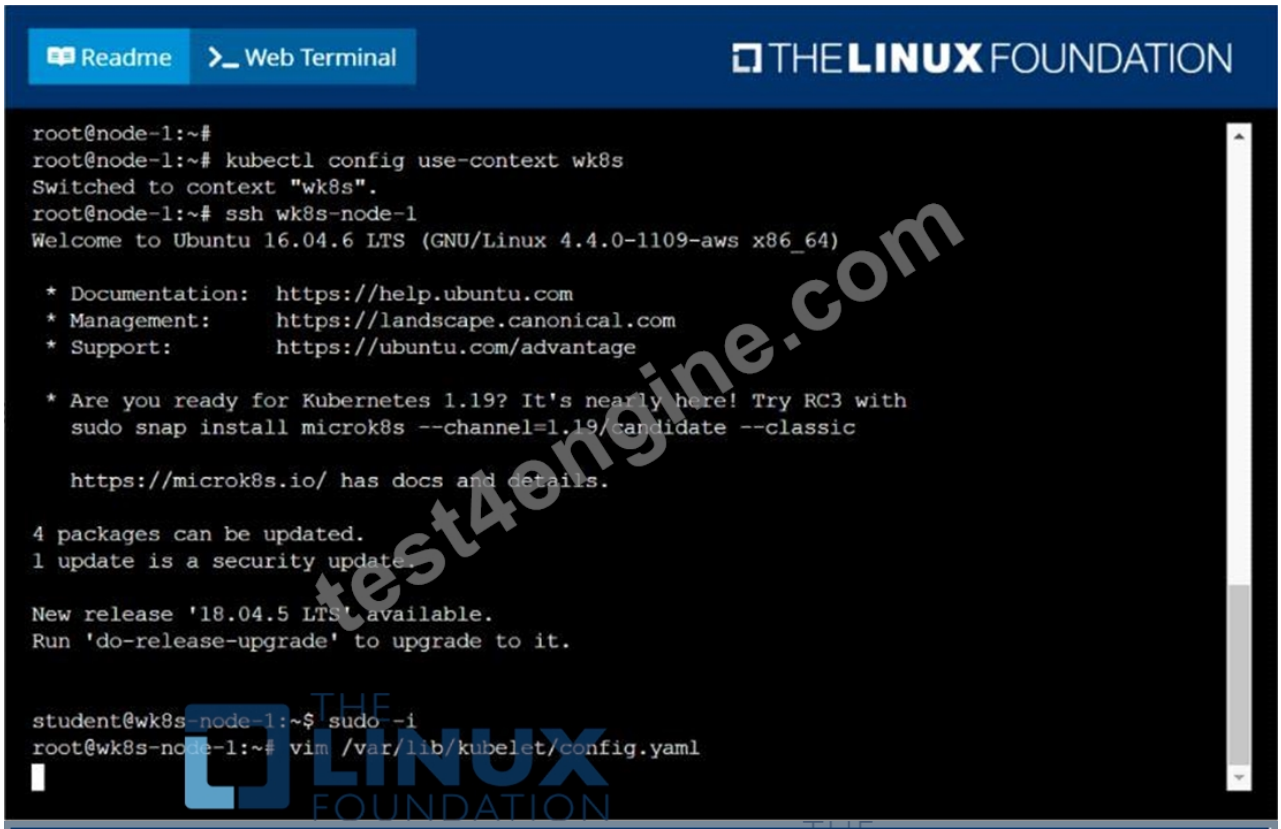
Answer:

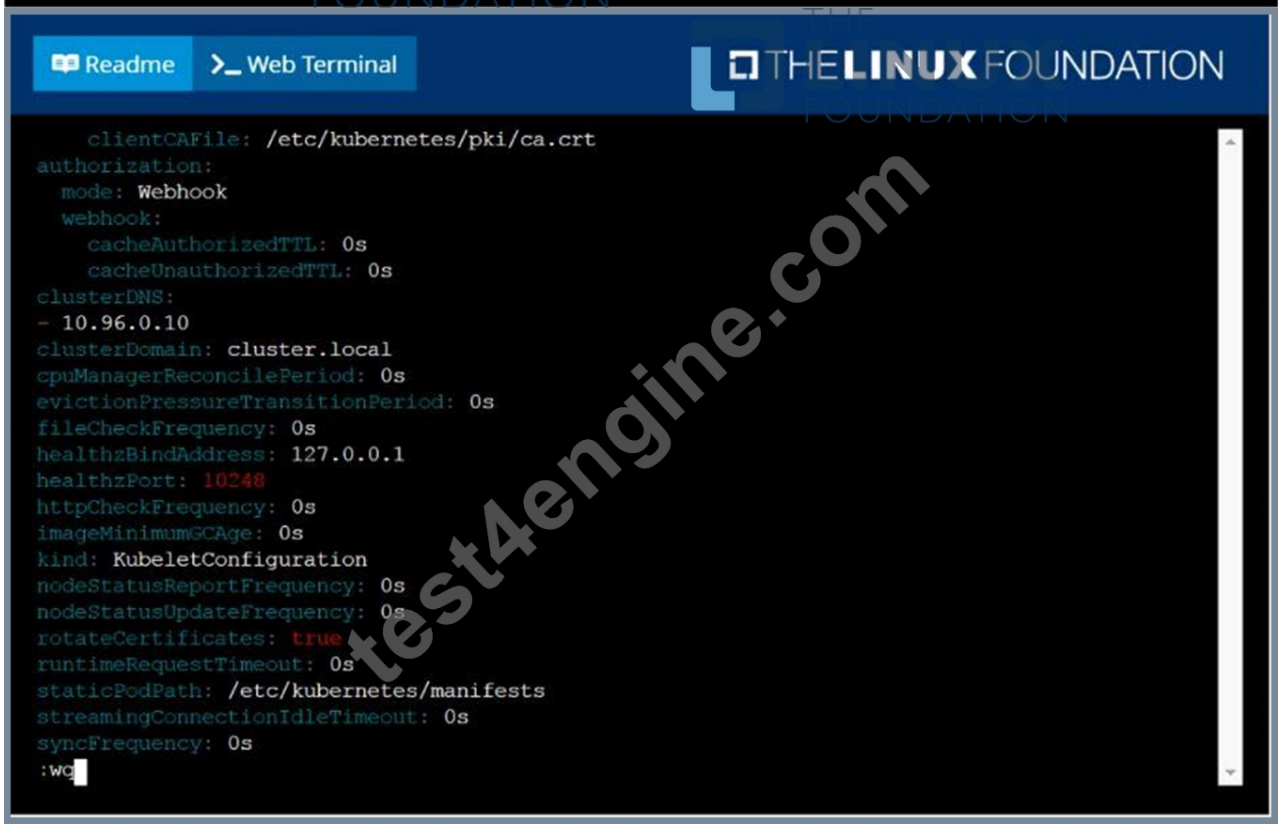
Explanation:
See the solution below.
Explanation
kubectl run busybox --image=busybox --restart=Never -- /bin/sh -c
"sleep 3600"

NEW QUESTION # 40
Configure the kubelet systemd- managed service, on the node labelled with name=wk8s-node-1, to launch a pod containing a single container of Image httpd named webtool automatically. Any spec files required should be placed in the /etc/kubernetes/manifests directory on the node.
You can ssh to the appropriate node using:
[student@node-1] $ ssh wk8s-node-1
You can assume elevated privileges on the node with the following command:
[student@wk8s-node-1] $ | sudo -i

Answer:

Explanation:
solution





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```
root@node-1:~# ssh wk8s-node-1
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-1109-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

 * Are you ready for Kubernetes 1.19? It's nearly here! Try RC3 with
   sudo snap install microk8s --channel=1.19/candidate --classic

   https://microk8s.io/ has docs and details.

4 packages can be updated.
1 update is a security update.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.


student@wk8s-node-1:~$ sudo -i
root@wk8s-node-1:~# vim /var/lib/kubelet/config.yaml
root@wk8s-node-1:~# cd /etc/kubernetes/manifests
root@wk8s-node-1:/etc/kubernetes/manifests#
root@wk8s-node-1:/etc/kubernetes/manifests# vim pod.yaml
```

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```
apiVersion: v1
kind: Pod
metadata:
  name: webtool
spec:
  containers:
  - name: webtool
    image: httpd
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
:w
```

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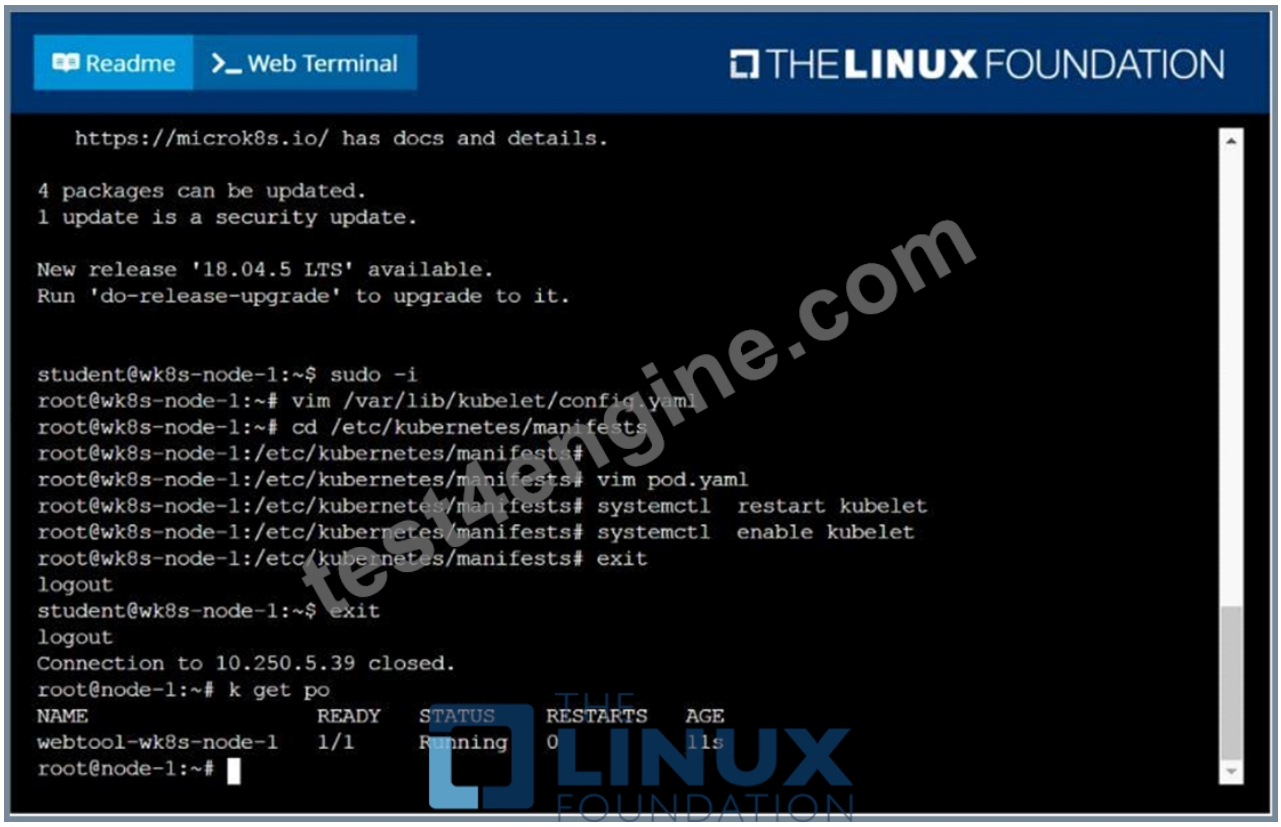

NEW QUESTION # 41

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