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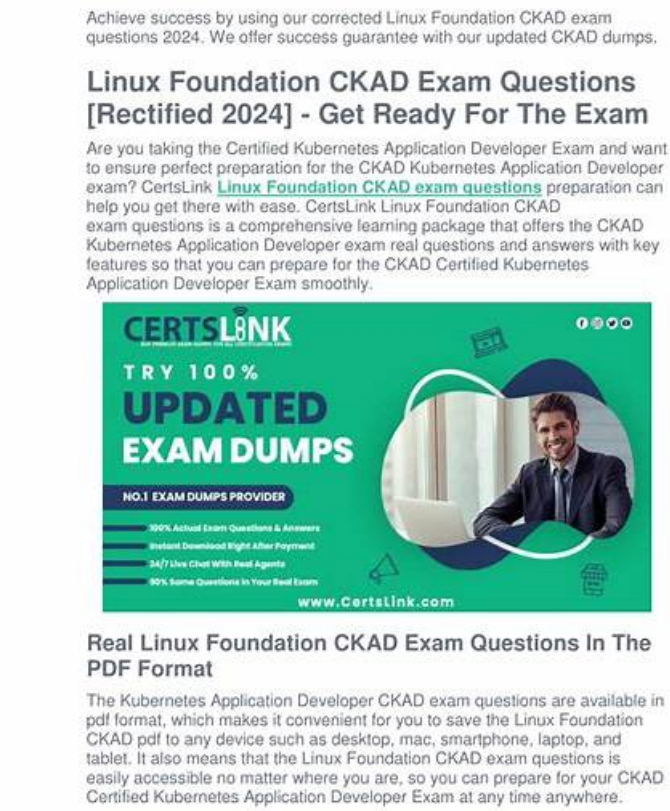

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The CKAD exam is conducted by the Linux Foundation, a non-profit organization that supports the development of open-source technologies. The Linux Foundation has a reputation for offering some of the most respected certifications in the IT industry, and CKAD is no exception. CKAD exam is designed to test the practical skills of developers and requires them to solve real-world problems using Kubernetes. The CKAD Certification is widely recognized and respected in the industry, and it is an excellent way for developers to demonstrate their expertise in Kubernetes.

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Linux Foundation Certified Kubernetes Application Developer (CKAD) exam is a certification exam designed to assess an individual's proficiency in designing, building, configuring, and deploying cloud-native applications using Kubernetes. The CKAD Certification is recognized globally and is highly valued by organizations that use Kubernetes for their container orchestration needs.

Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q54-Q59):

NEW QUESTION # 54
You are deploying a sensitive application that requires strong security measures. You need to implement a solution to prevent unauthorized access to the container's runtime environment. How would you use Seccomp profiles to enforce security policies at the container level?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Seccomp Profile:
- Create a new YAML file (e.g., 'seccomp-profile.yaml') to define your Seccomp profile.
- Specify the name of the Seccomp profile and the namespace where it will be applied.
- Define the allowed syscalls for the container. You can use the 'seccomp' tool or the 'k8s.io/kubernetes/pkg/security/apparmor/seccomp' package to generate the profile.

```
apiVersion: security.openshift.io/v1
kind: SecurityContextConstraints
metadata:
  name: seccomp-profile
spec:
  seLinuxContext:
    type: RuntimeDefault
  seccompProfile:
    type: Localhost
    localhostProfile:
      # Define the allowed syscalls
      # For example, allow only a few essential syscalls
      # for a minimal runtime environment
      allow:
        - read
        - write
        - open
        - close
        - fstat
        - stat
        - lstat
        - ioctl
        - mmap
        - mprotect
        - munmap
        - fcntl
        - getpid
        - getppid
        - getuid
        - geteuid
        - getgid
        - getegid
        - clock_gettime
        - gettimeofday
        - time
        - nanosleep
        - setrlimit
        - getrlimit
        - prctl
        - brk
        - exit
        - exit_group
        - kill
        - sigaction
        - sigprocmask
        - getuid
        - getgid
        - getppid
        - getpid
      default:
        - ALLOW
```


2. Apply the Seccomp Profile: - Apply the Seccomp profile to your cluster using the following command: bash kubectl apply -f seccomp-profile.yaml 3. Deploy Applications with Seccomp Profile: - Update your Deployment YAML file to include the Seccomp profile:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: sensitive-app
spec:
  replicas: 2
  template:
    spec:
      containers:
      - name: sensitive-app
        image: example/sensitive-app:latest
        securityContext:
          # Enable Seccomp and specify the profile name
          seccompProfile:
            type: Localhost
            localhostProfile: seccomp-profile
```

4. Verify the Seccomp Profile: - Check the status of the pods with 'kubectl describe pod - Look for the "Security Context" section and verify that the Seccomp profile is correctly applied. 5. Test the Restrictions: - Try to access system resources or make syscalls that are not allowed by your Seccomp profile. - Verify that the profile is effectively restricting the container's access to system resources.

NEW QUESTION # 55

Context
A web application requires a specific version of redis to be used as a cache.
Task
Create a pod with the following characteristics, and leave it running when complete:
* The pod must run in the web namespace.
The namespace has already been created
* The name of the pod should be cache
* Use the Ifccncf/redis image with the 3.2 tag
* Expose port 6379

Answer:

Explanation:
See the solution below.
Explanation
Solution:

NEW QUESTION # 56
Refer to Exhibit.

Context
It is always useful to look at the resources your applications are consuming in a cluster.
Task
* From the pods running in namespace cpu-stress , write the name only of the pod that is consuming the most CPU to file /opt/KDOBG030l/pod.txt, which has already been created.

Answer:

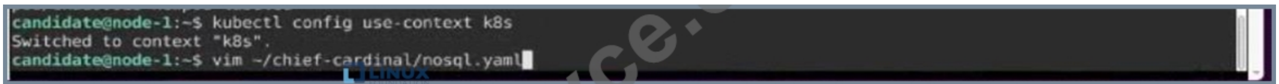
Explanation:
Solution:

NEW QUESTION # 57
Context

Task:
The pod for the Deployment named nosql in the craytisn namespace fails to start because its container runs out of resources.
Update the nosol Deployment so that the Pod:
1) Request 160M of memory for its Container
2) Limits the memory to half the maximum memory constraint set for the crayfah name space.

Answer:

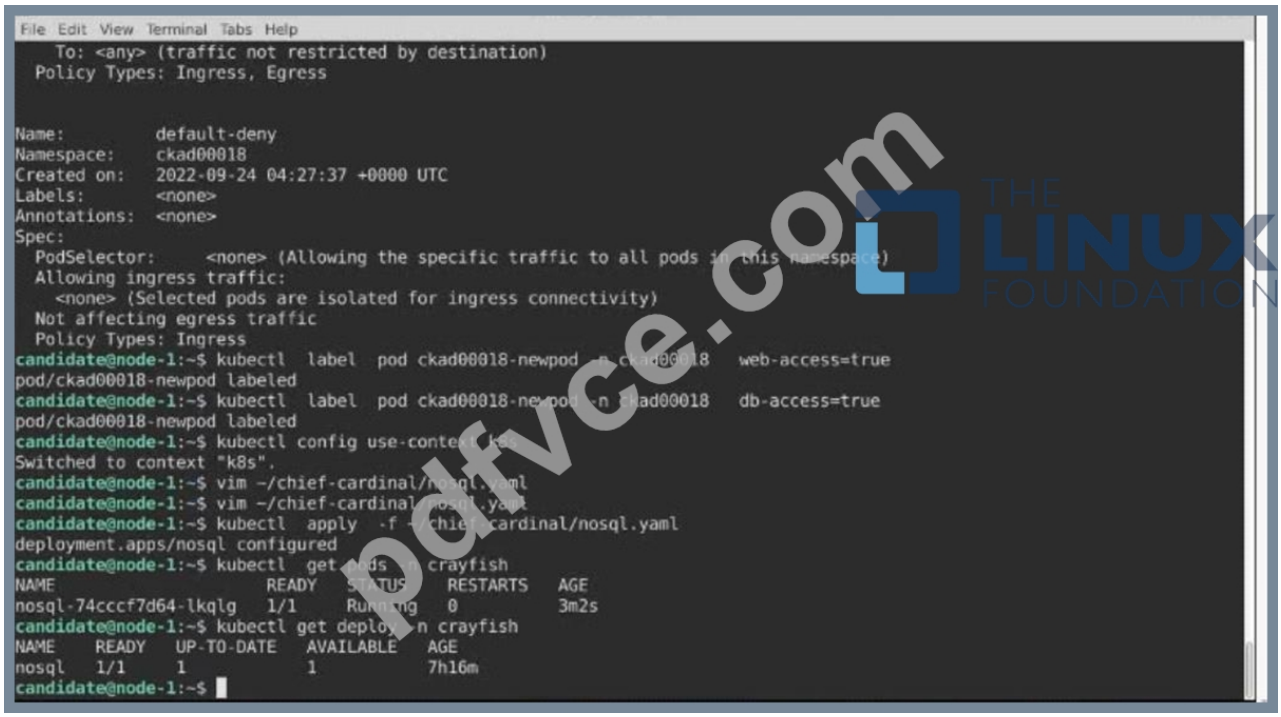
Explanation:
Solution:



```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
```

```
---
piVersion: apps/v1
ind: Deployment
etadata:
 name: nosql
 namespace: crayfish
 labels:
   app.kubernetes.io/name: nosql
   app.kubernetes.io/component: backend
pec:
 selector:
   matchLabels:
     app.kubernetes.io/name: nosql
     app.kubernetes.io/component: backend
 replicas: 1
 template:
   metadata:
     labels:
       app.kubernetes.io/name: nosql
       app.kubernetes.io/component: backend
   spec:
     containers:
     - name: mongo
       image: mongo:4.2
       args:
         - --bind_ip
         - 0.0.0.0
       ports:
         - containerPort: 27017
```

```
File Edit View Terminal Tabs Help
        - name: mongo
          image: mongo:4.2
          args:
            - --bind_ip
            - 0.0.0.0
          ports:
            - containerPort: 27017
          resources:
            requests:
               memory: "160Mi"
            limits:
               memory: "320Mi"
:wq
```



NEW QUESTION # 58
Context

Task
You are required to create a pod that requests a certain amount of CPU and memory, so it gets scheduled to-a node that has those resources available.
* Create a pod named nginx-resources in the pod-resources namespace that requests a minimum of 200m CPU and 1Gi memory for its container
* The pod should use the nginx image
* The pod-resources namespace has already been created

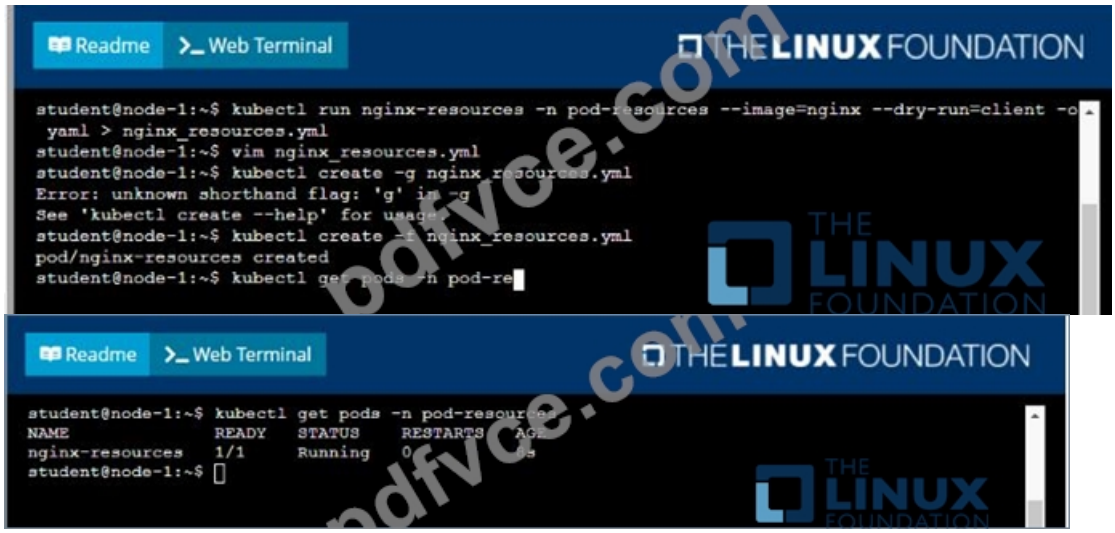
Answer:

Explanation:
Solution:


Readme
Web Terminal
THE LINUX FOUNDATION
student@node-1:~$ kubectl run nginx-resources -n pod-resources --image=nginx --dry-run=client -o
yaml > nginx_resources.yml
student@node-1:~$ vim nginx_


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
creationTimestamp: null
labels:
run: nginx-resources
name: nginx-resources
namespace: pod-resources
spec:
containers:
- image: nginx
name: nginx-resources
resources: {}
dnsPolicy: ClusterFirst
restartPolicy: Always
status: {}
"nginx_resources.yml" 16L, 289C
1,1
All


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
labels:
run: nginx-resources
name: nginx-resources
namespace: pod-resources
spec:
containers:
- image: nginx
name: nginx-resources
resources:
requests:
cpu: 200m
memory: "1Gi"
-- INSERT --
15,22
All



NEW QUESTION # 59

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