

Linux Foundation

CKAD Exam

Certified Kubernetes Application Developer (CKAD) Program

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QUESTIONS & ANSWERS

DEMO VERSION

(LIMITED CONTENT)

Version: 6.2

Question: 1

Refer to Exhibit.



Set Configuration Context: [student@node-1] \$ | kubectl Config use-context k8s 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: See the solution below.

Explanation:

```
student@node-1:~$ kubectl run cache --image=lfccncf/redis:3.2 --port=6379 -n web
pod/cache created
student@node-1:~$ kubectl get pods -n web
NAME READY STATUS RESTARTS AGE
cache 0/1 ContainerCreating 0 6s
student@node-1:~$ kubectl get pods -n web
NAME READY STATUS RESTARTS AGE
cache 1/1 Running 0 9s
student@node-1:~$ []
```

Refer to Exhibit.



Context

You are tasked to create a secret and consume the secret in a pod using environment variables as follow:

Task

- Create a secret named another-secret with a key/value pair; key1/value4
- Start an nginx pod named nginx-secret using container image nginx, and add an environment variable exposing the value of the secret key key 1, using COOL_VARIABLE as the name for the environment variable inside the pod

Answer: See the solution below.

Explanation:

```
THE LINUX FOUNDATION
  Readme >_ Web Terminal
apiVersion: v1
  nd: Pod
  run: nginx-secret
name: nginx-secret

spec:

containers:

- image: nginx

name: nginx-secret

resources: {}

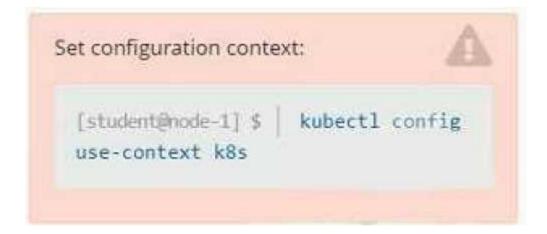
dnsPolicy: ClusterFirst

restartFolicy: Always
"nginx_secret.yml" 15L, 253C
                                                                                                              1,1
  Readme >_ Web Terminal
                                                                                  THE LINUX FOUNDATION
apiversion: v1
kind: Pod
metadata:
   labels:
run: nginx-secret
name: nginx-secret
   containers:
- image: nginx
name: nginx-secret
     - name: COOL VARIABLE valueFrom:
           name: some-secret
 -- INSERT --
                                                                                                             16,20
```

```
Readme >_ Web Terminal
                                                                       THE LINUX FOUNDATION
student@node-1:~$ kubectl get pods -n web
NAME READY STATUS RESTARTS AGE cache 1/1 Running 0 9s
student@node-1:~$ kubectl create secret generic some-secret --from-literal=key1=value4
secret/some-secret created
student@node-1:~$ kubectl get secret
NAME TYPE

default-token-4kvr5 kubernetes.io/service-account-token
some-secret Opaque
                                                                                 2d11h
some-secret Opaque 1 5s student@node-1:~$ kubectl run nginx-secret --image=nginx --dry-run=client -o yaml > nginx_secret
student@node-1:~$ vim nginx_secret.yml
student@node-1:~$ kubectl create -f nginx_secret.yml
pod/nginx-secret created
student@node-1:~$ kubectl get pods
NAME READY STATUS
liveness-http 1/1 Running
nginx-101 1/1 Running
nginx-secret 0/1 Contain
                                                     RESTARTS
                                                                  6h38m
                            Running
                            Running
                                                                  6h39m
                            ContainerCreating
                            Running
poller
                                                                  6h39m
student@node-1:~$ kubectl get pods
NAME READY STATUS I
                                         RESTARTS
                                                      AGE
                   1/1
1/1
1/1
liveness-http
                             Running
nginx-101
                             Running
                                                      6h39m
nginx-secret
                             Running
                                                      88
                                                      6h39m
poller
                             Running
student@node-1:
```

Refer to Exhibit.



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.

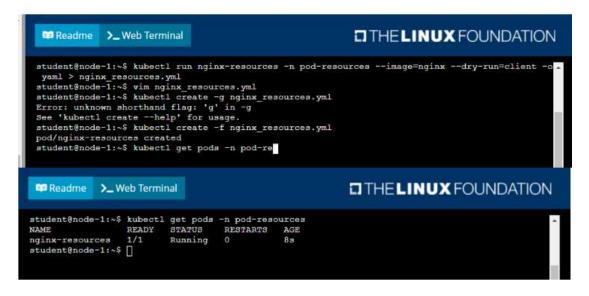
- Create a pod named nginx-resources in the pod-resources namespace that requests a minimum of 200m CPU and 1Gi memory for its container
- The pod should use the nginx image
- The pod-resources namespace has already been created

Answer: See the

solution below.

Explanation:

```
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: vl
  ind: Pod
    run: nginx-resources
  name: nginx-resources
  namespace: pod-resources
  - image: nginx
name: nginx-resources
  dnsFolicy: ClusterFirst
restartFolicy: Always
"nginx_resources.yml" 16L, 289C
                                                                                             All -
                                                           THE LINUX FOUNDATION
Readme >_ Web Terminal
 labels:
run: nginx-resources
 name: nginx-resources
  namespace: pod-resources
  - image: nginx
   name: nginx-resources
       cpu: 200m
-- INSERT --
                                                                              15,22
```



Refer to Exhibit.



Context

You are tasked to create a ConfigMap and consume the ConfigMap in a pod using a volume mount. Task

Please complete the following:

- Create a ConfigMap named another-config containing the key/value pair: key4/value3
- start a pod named nginx-configmap containing a single container using the nginx image, and mount the key you just created into the pod under directory /also/a/path

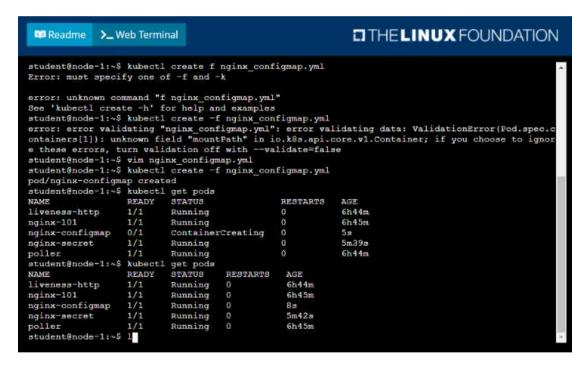
Answer: See the
solution below.

Explanation:

```
student@node-1:~$ kubectl create configmap another-config --from-literal=key4=value3
configmap/another-config created
student@node-1:~$ kubectl get configmap

NAME DATA AGE
another-config 1 5s
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_configmap.yml
student@node-1:~$ vim ngin_configmap.yml ^C
student@node-1:~$ vim ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_co
```

```
apiversion: v1
kind: Pod
metadata:
labela:
run: nginx-configmap
name: nginx-configmap
apoc:
containers:
- image: nginx
name: nginx-configmap
volumeMounts:
- name: myvol
| mountPath: /also/a/path
volumes:
- name: myvol
configMap:
name: another-config
```



Refer to Exhibit.



Context

Your application's namespace requires a specific service account to be used.

Task

Update the app-a deployment in the production namespace to run as the restricted service account. The service account has already been created.

Answer: See the solution below.

Explanation:

```
### SECRETS AGE | Gh46m | SECRETS | AGE | Gh46m | SECRETS | AGE | Gh46m | Student@node-1:-$ kubectl get deployment -n production | NAME | READY | UP-TO-DATE | AVAILABLE | AGE | app-a | 3/3 | 3 | 6h46m | student@node-1:-$ kubectl set serviceaccount deployment | app-a restrictedservice -n production | deployment.apps/app-a | serviceaccount updated | student@node-1:-$ |
```

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