

# **Linux Foundation**

### **CKAD Exam**

**Certified Kubernetes Application Developer** 

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## Version: 6.1

### Question: 1

Refer to Exhibit:



#### 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:

```
student@node-1:~$ kubectl create secret generic some-secret --from-literal=key1=value4 secret/some-secret created
secret/some-secret created
student@node-1:~$ kubectl get secret
NAME TYPE DATA
default-token-4kvr5 kubernetes.io/service-account-token 3
                                                                       DATA AGE
                                                                               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
  Readme >_ Web Terminal
                                                                       THE LINUX FOUNDATION
apiversion: v1
kind: Pod
   run: nginx-secret
    - image: nginx
     name: nginx-secret
   resources: []
dnsPolicy: ClusterFirst
restartPolicy: Always
 "nginx_secret.yml" 15L, 253C
                                                                                              1,1
                                                                                                              All ·
  Readme >_ Web Terminal
                                                                      THE LINUX FOUNDATION
 kind: Pod
     run: nginx-secret
   name: nginx-secret
   containers:
- image: nginx
     name: nginx-secret
      - name: COOL VARIABLE
           hame: 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
                       TYPE
default-token-4kvr5 kubernetes.io/service-account-token
                                                                         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
                        STATUS
NAME
                 READY
                                                RESTARTS
                1/1
liveness-http
                                                            6h38m
                          Running
nginx-101
                         Running
                                                            6h39m
nginx-secret
                          Running
poller
                                                            6h39m
student@node-1:~$ kubectl get pods
NAME READY STATUS I
                                     RESTARTS
                                                 AGE
liveness-http
                          Running
nginx-101
                          Running
                                                 6h39m
nginx-secret
                          Running
                                                 88
                                                 6h39m
poller
                          Running
student@node-1:
```

Refer to Exhibit:



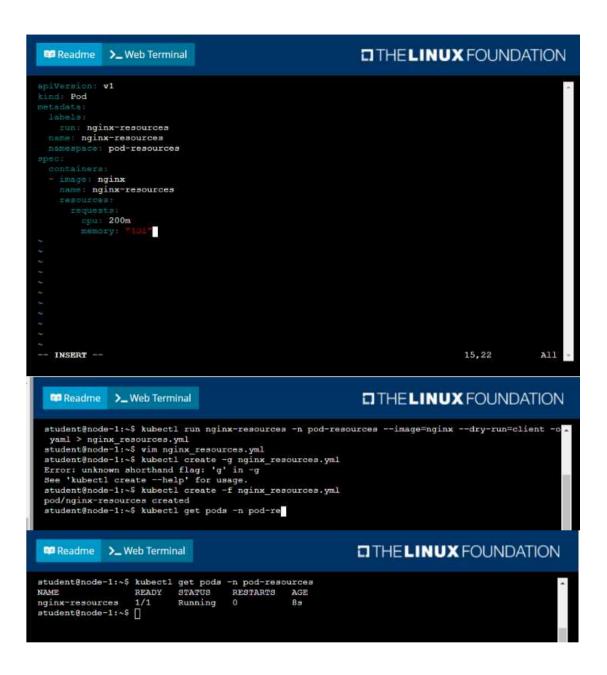
#### Task

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:



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:

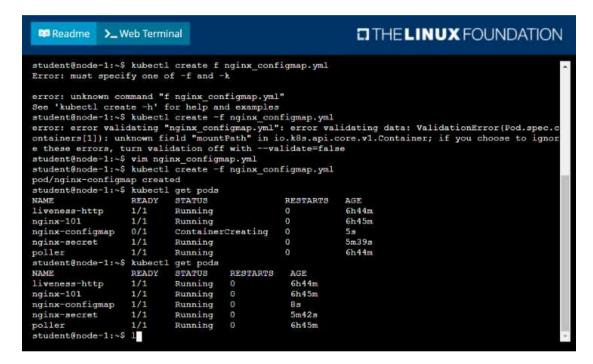
```
student@node-1:~$ kubectl create configmap another-config --from-literal=key4=value3
configmap/another-config created
student@node-1:~$ kubectl get configmap
NAME DATA AGE
another-config 1 5s
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_configmap.yml
student@node-1:~$ vim ngin_configmap.yml ^C
student@node-1:~$ wim ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ wim ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml nginx_configmap.yml
```

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

```
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 nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml
```

```
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:~$ wiw ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml
student@node-1:~$ kubectl create f nginx_configmap.yml
Error: must specify one of -f and -k

error: unknown command "f nginx_configmap.yml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_configmap.yml
error: error validating "nginx_configmap.yml": error validating data: ValidationError(Pod.spec.containers[1]): unknown field "mountPath" in io.k@s.api.core.vl.Container; if you choose to ignor
e these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_configmap.yml
```



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 service account. The service account has already been created.

Answer: See the solution below.

Explanation:

```
## Readme >_ Web Terminal

## SECRETS AGE

## default 1 6046m

## restrictedservice 1 6046m

## student@node-1:-$ kubectl get deployment -n production

## NAME SECRETS AGE

## app-a 3/3 3 3 6046m

## student@node-1:-$ kubectl get deployment deployment app-a restrictedservice -n production

## NAME READY UP-TO-DATE AVAILABLE AGE

## app-a 3/3 3 3 6046m

## student@node-1:-$ kubectl set serviceaccount deployment app-a restrictedservice -n production

## deployment.apps/app-a serviceaccount updated

## student@node-1:-$

## deployment.apps/app-a serviceaccount updated

## student@node-1:-$

## deployment.apps/app-a serviceaccount updated

## student@node-1:-$

## deployment.apps/app-a serviceaccount updated

## deployment.apps/app-a serviceaccount updated

## deployment.apps/app-a serviceaccount updated
```

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