

# Linux Foundation CKAD Exam

**Linux Foundation Certified Kubernetes Application Developer Exam** 

# QUESTIONS & ANSWERS DEMO VERSION (LIMITED CONTENT)

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## Version: 5.0

### Question: 1

### 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

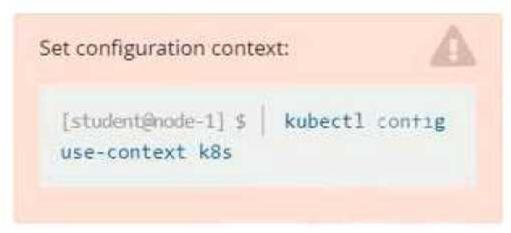
Solution

### Solution:

```
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:~$ []
```

### Question: 2

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

Solution

### Solution:

```
THE LINUX FOUNDATION
  Readme >_ Web Terminal
apiVersion: v1
   nd: Pod
   run: nginx-secret
name: nginx
name: nginx=secret
resources: ()
spolicy: ClusterPi
   dnsPolicy: ClusterFirst
restartPolicy: Always
 "nginx_secret.yml" 15L, 253C
                                                                                                 1,1
  Readme >_ Web Terminal
                                                                        THE LINUX FOUNDATION
 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
                                                                                                                All
```

```
Readme >_ Web Terminal
                                                                 THE LINUX FOUNDATION
student@node-1:~$ kubectl get pods -n web
      READY STATUS
1/1 Running
                            RESTARTS
                                        98
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
                                                            AGE
6h38m
NAME
                 READY
                        STATUS
                                                RESTARTS
                 1/1
liveness-http
                          Running
nginx-101
                          Running
                                                            6h39m
poller
                          Running
                                                            6h39m
student@node-1:~$ kubectl get pods
NAME READY STATUS I
                                     RESTARTS
                                                 AGE
liveness-http
                          Running
nginx-101
                                                 6h39m
nginx-secret
                          Running
                                                 88
                                                 6h39m
poller
                          Running
student@node-1
```

### Question: 3

Exhibit:



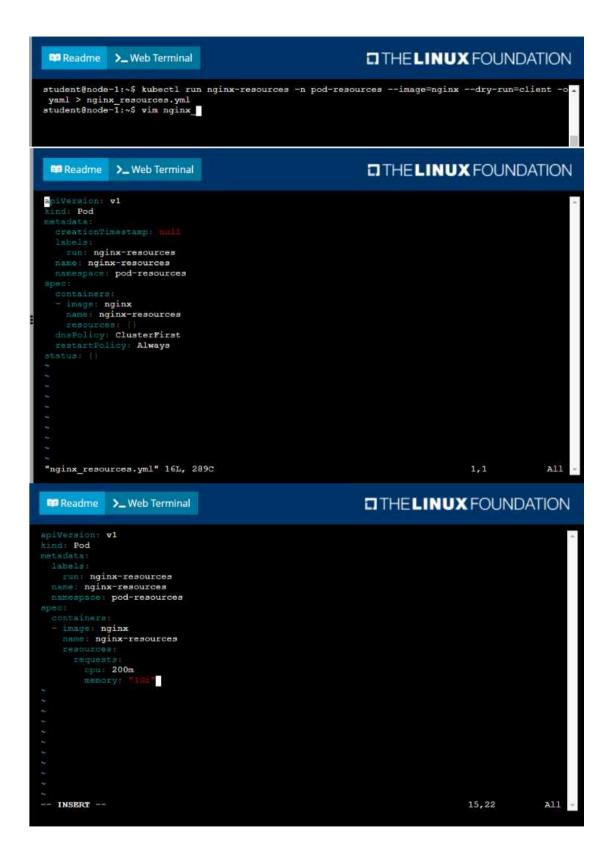
### Task

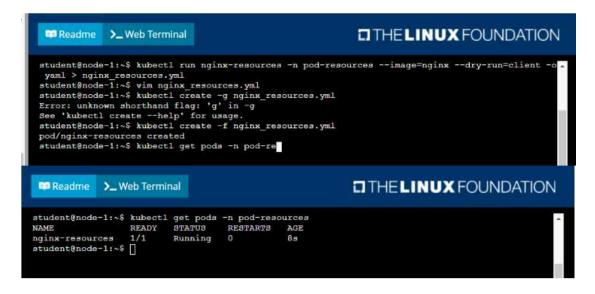
You are required to create a pod that requests a certain amount of CPU and memory, so it gets scheduled to-a node that has those resources available.

- 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

Solution
----------

Solution:





### Question: 4

### 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

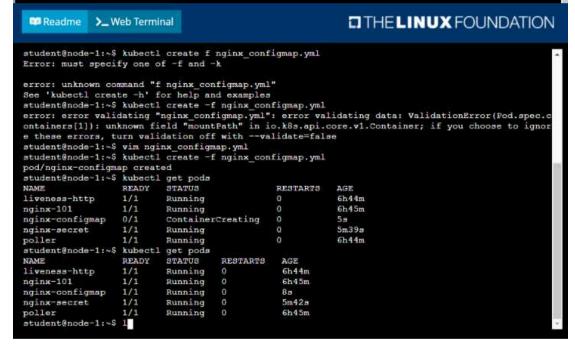
nginx image, and mount the key you just created into the pod under directory /also/a/path

Solution:

```
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_conf
student@node-1:~$ wim ngin_configmap.yml ^C
student@node-1:~$ mv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_co
 Readme >_ Web Terminal
                                                                                THE LINUX FOUNDATION
apiversion: v1
kind: Pod
  labels:
run; nginx-configmap
  name: nginx-configmap
   - image: nginx
name: nginx-configmap
  resources: ()
dnsPolicy: ClusterFirst
restartFolicy: Always
"nginx_configmap.yml" 15L, 262C
                                                                                                           1,1
                                                                                                                              A11 -
                                                                                  THE LINUX FOUNDATION
  Readme >_ Web Terminal
 apiversion: v1
kind: Pod
metadata:
      run: nginx-configmap
   name: nginx-configmap
    - Image: nginx
name: nginx-configmap
volumeMounts:
       mountPath: /also/a/path
    - mame: myvol
         name: another-config
                                                                                                            13,6
                                                                                                                               All
```

```
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:~$ wim ngin_configmap.yml ^C
student@node-1:~$ wim nginx_configmap.yml 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:~$ wim ngin_configmap.yml ^C
student@node-1:~$ wim ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ wim nginx_configmap.yml nginx_configmap.yml
student@node-1:~$ wim nginx_configmap.yml
student@node-1:~$ wim 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
```



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