

# LINUX FOUNDATION CKAD

**QUESTIONS AND ANSWERS** 

**FREE VERSION** 

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Exam Code: CKAD

Exam Name: Certified Kubernetes Application Developer

Certification Provider: Linux Foundation

Related Certification: Kubernetes Application Developer

# **QUESTION: 1**

Exhibit:

# Context

A web application requires a specific version of redis to be used as a cache.

Task

Create a pod with the fol owing 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:

A. See explanation below for complete answer.

Answer(s): A

Explanation:

QUESTION: 1
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A web application requires a specific version of redis to be used as a cache.
Task
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Solution:
A. See explanation below for complete answer.
Answer(s): A
Explanation:





```
THE LINUX FOUNDATION
 Readme
             >_ Web Terminal
student@node-1:~$ kubect1 get pods -n web
      READY STATUS
cache 1/1 Running 0 9s
student@node-1:~$ kubectl create secret generic some-secret --from-literal=keyl=value4
secret/some-secret created
student@node-1:~$ kubectl get secret
                                                              DATA
NAME
                      TYPE
default-token-4kvr5 kubernetes.io/service-account-token
                                                                     2d11h
                                                              3
                      Opaque
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
                                             RESTARTS
liveness-http
                        Running
                                             0
                                                         6h38m
nginx-101
                        Running
                                                         6h39m
                        ContainerCreating
                0/1
nginx-secret
                                             0
                                                         48
                1/1
poller
                                                         6h39m
                        Running
student@node-1:~$ kubect1 get pods
NAME READY STATUS I
                                   RESTARTS
                                              AGE
liveness-http
                1/1
                                   0
                                              6h38m
                        Running
                1/1
nginx-101
                                              6h39m
                        Running
                1/1
nginx-secret
                        Running
poller
                                              6h39m
student@node-1:~$
```

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:

A. See explanation below for complete answer.

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:

A. See explanation below for complete answer.



```
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_resources.yml
student@node-1:~$ kubectl create -g nginx_resources.yml
Error: unknown shorthand flag: 'g' in -g
See 'kubectl create --help' for usage.
student@node-1:~$ kubectl create -f nginx_resources.yml
pod/nginx-resources created
student@node-1:~$ kubectl get pods -n pod-re
```



Exhibit:

```
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
igmap.yml
student@node-1:~$ vim ngin_configmap.yml ^C
student@node-1:~$ wv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml nginx_configmap.yml
```

### Context

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

Task

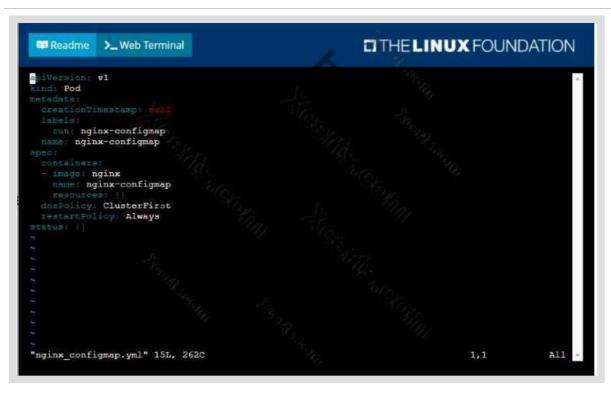
Please complete the fol owing:

? 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:

A. See explanation below for complete answer.

Answer(s): A 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:~$ www ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml nginx_configmap.yml
student@node-1:~$
```

```
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_conf
igmap.yml
student@node-1:~$ vim 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 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
```

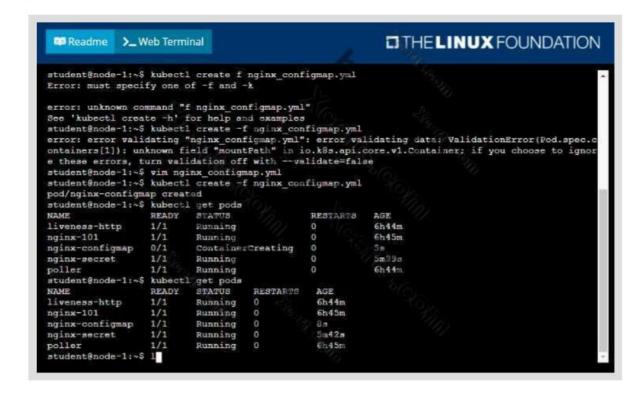


Exhibit: