

Linux Foundation

CKAD

Exam Name:

Linux Foundation Certified Kubernetes Application Developer Exam



Questions & Answers (Demo Version – Limited Content)

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Version: 5.0

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 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:

```
student@node-1:~$ kubectl get
NAME
                       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
  Readme >_ Web Terminal
                                                                THE LINUX FOUNDATION
 apiVersion: v1
   nd: Pod
     run: nginx-secret
   name: nginx-secret
     image nginx
     name: nginx-secret
   dnsPolicy: ClusterFirst
restartPolicy: Always
 "nginx_secret.yml" 15L, 253C
                                                                                    1,1
```

```
Readme >_ Web Terminal
                                                                                    THE LINUX FOUNDATION
 kind: Pod
     run: nginx-secret
   name: nginx-secret
     image: nginx
     name: nginx-secret
      - name: COOL VARIABLE
              key: keyl
 -- INSERT --
                                                                                                              16,20
                                                                                                                                  All
                                                                                    THE LINUX FOUNDATION
 Readme >_ Web Terminal
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=keyl=value4
secret/some-secret created
student@node-1:~$ kubectl get secret
NAME TYPE

default-token-4kvr5 kubernetes.io/service-account-token
some-secret Opaque
                                                                                     DATA AGE
                                                                                               2d11h
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
student@node-1:~% Rubectl create -r
pod/nginx-secret created
student@node-1:~% Rubectl get pods
NAME READY STATUS
liveness-http 1/1 Running
nginx-101 1/1 Running
nginx-secret 0/1 ContainerCr
poller 1/1 Running
                                                               RESTARTS
                                                                               6h38m
                                                                             6h39m
                                ContainerCreating
Running
                                                                               45
student@node-1:~$ kubectl get pods
NAME READY STATUS
liveness-http 1/1 Running
nginx-101 1/1 Running
nginx-secret 1/1 Running
poller 1/1 Running
                                                RESTARTS AGE
                                                                6h38m
                                                                6h39m
                                                                6h39m
student@node-1:~$
```

Question: 3

Exhibit:

```
Set configuration context:

[student@node-1] $ | kubectl configuration context k8s
```

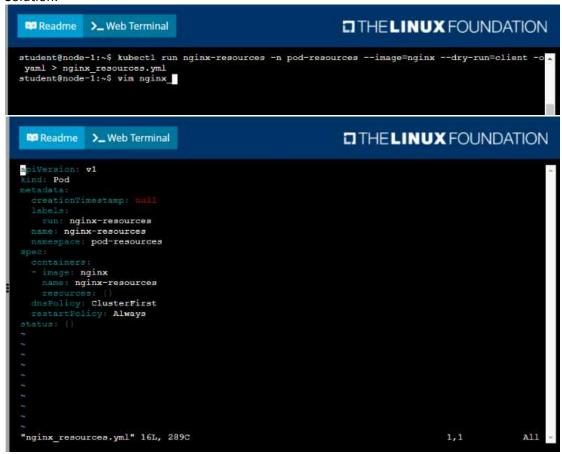
Task

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

```
Solution:
   student@node-1:~$ kubectl create configmap another-config --from-literal=key4=value3
   student@node-1:~$ kubect! created configmap/another-config created student@node-1:~$ kubect! get configmap NAME DATA AGE another-config 1 5s
   NAME
   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:~$ mv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_co
                                                                                THE LINUX FOUNDATION
    Readme >_ Web Terminal
  apiversion: v1
     nd: Pod
        run: nginx-configmap
     name: nginx-configmap
       image: nginx
        name: nginx-configmap
     dnsPolicy: ClusterFirst
restartPolicy: Always
   "nginx_configmap.yml" 15L, 262C
                                                                                                         1,1
                                                                                                                           All -
     Readme >_ Web Terminal
                                                                                 THE LINUX FOUNDATION
    apiversion: v1
kind: Pod
      run: nginx-configmap
name: nginx-configmap
         lmage nginx
name nginx-configmap
          name: myvol
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
                         DATA AGE
another-config
                                   55
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:~$ mv ngin configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml
student@node-1:~$
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_conf
student@node-1:~$ vim ngin_configmap.yml ^C
student@node-1:~$ mv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ wim 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.c
ontainers[1]): unknown field "mountPath" in io.k8s.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
```

Readme >_ Web Terminal

THE LINUX FOUNDATION

```
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.k8s.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
student@node-1:~$ kubectl create -f nginx_configmap.yml
pod/nginx-configmap created
student@node~1:~$ kubectl get pods
NAME
                            READY
                                         STATUS
                                                                         RESTARTS
                                                                                           AGE
                            1/1
liveness-http
                                         Running
                                                                                           6h44m
nginx-101
                                                                                           6h45m
                                         Running
nginx-configmap
                                          ContainerCreating
                                                                                            58
                            1/1
nginx-secret
                                         Running
                                                                                           5m39s
                                         Running
poller
                                                                         0
                                                                                           6h44m
student@node-1:~$ kubectl get pods
NAME READY STATUS
                                                         RESTARTS
                                                                           AGE
                             1/1
liveness-http
                                         Running
                                                                           6h44m
nginx-101
                                         Running
                                                                           6h45m
                             1/1 1/1
nginx-configmap
                                                                           8s
5m42s
                                         Running
                                         Running
Running
nginx-secret
student@node~1:~$ 1
```



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