



Linux-Foundation

Exam Questions CKAD

Certified Kubernetes Application Developer (CKAD) Program

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NEW QUESTION 1

Exhibit:

```
Set configuration context:   
  
[student@node-1] $ | kubectl config  
use-context nk8s
```

Task

A deployment is falling on the cluster due to an incorrect image being specified. Locate the deployment, and fix the problem.

Pending

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Suggest the Solution.

NEW QUESTION 2

Exhibit:

```
Set configuration context:   
  
[student@node-1] $ | kubectl config  
use-context nk8s
```

Task

You have rolled out a new pod to your infrastructure and now you need to allow it to communicate with the web and storage pods but nothing else. Given the running pod `kdsn00201 -newpod` edit it to use a network policy that will allow it to send and receive traffic only to and from the web and storage pods.

```
All work on this item should be   
conducted in the kdsn00201  
namespace.
```

```
All required NetworkPolicy resources   
are already created and ready for use as  
appropriate. You should not create, modify  
or delete any network policies whilst  
completing this item.
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Suggest the Solution.

NEW QUESTION 3

Exhibit:

```
Set configuration context:

[student@node-1] $ | kubectl config
use-context sk8s
```

Context

A project that you are working on has a requirement for persistent data to be available. Task

To facilitate this, perform the following tasks:

- Create a file on node sk8s-node-0 at /opt/KDSP00101/data/index.html with the content Acct=Finance
- Create a PersistentVolume named task-pv-volume using hostPath and allocate 1Gi to it, specifying that the volume is at /opt/KDSP00101/data on the cluster's node. The configuration should specify the access mode of ReadWriteOnce . It should define the StorageClass name exam for the PersistentVolume , which will be used to bind PersistentVolumeClaim requests to this PersistentVolume.
- Create a PersistentVolumeClaim named task-pv-claim that requests a volume of at least 100Mi and specifies an access mode of ReadWriteOnce
- Create a pod that uses the PersistentVolumeClaim as a volume with a label app: my-storage-app mounting the resulting volume to a mountPath /usr/share/nginx/html inside the pod

```
You can access sk8s-node-0 by
issuing the following
command:

[student@node-1] $ | ssh sk8
s-node-0
```

Ensure that you return to the base node (with hostname node-1) once you have completed your work on sk8s-node-0

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
student@node-1:~$ kubectl config use-context sk8s
Switched to context "sk8s".
student@node-1:~$
```

```
* Documentation: https://help.ubuntu.com
* Management:   https://landscape.canonical.com
* Support:      https://ubuntu.com/advantage

System information as of Fri Oct 9 08:52:09 UTC 2020

System load: 2.02          Users logged in:      0
Usage of /:   10.3% of 242.29GB  IP address for eth0:  10.250.3.115
Memory usage: 2%           IP address for docker0: 172.17.0.1
Swap usage:  0%           IP address for cni0:   10.244.1.1
Processes:   38

* Kubernetes 1.19 is out! Get it in one command with:

  sudo snap install microk8s --channel=1.19 --classic

https://microk8s.io/ has docs and details.

7 packages can be updated.
1 update is a security update.

New release '20.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

student@sk8s-node-0:~$
```



```

Readme Web Terminal THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
  name: mypod
  labels:
    app: my-storage-app
spec:
  containers:
  - name: myfrontend
    image: nginx
    volumeMounts:
    - mountPath: "/usr/share/nginx/html"
      name: mypod
  volumes:
  - name: mypod
    persistentVolumeClaim:
      claimName: task-pv-claim
  
```

```

student@sk8s-node-0:~$ kubectl create -f pod.yml
pod/mypod created
student@sk8s-node-0:~$ kubectl get
  
```

```

Readme Web Terminal THE LINUX FOUNDATION
student@sk8s-node-0:~$ kubectl get pods
NAME      READY   STATUS             RESTARTS   AGE
mypod    0/1     ContainerCreating   0           4s
student@sk8s-node-0:~$ kubectl get pods
NAME      READY   STATUS             RESTARTS   AGE
mypod    0/1     ContainerCreating   0           8s
student@sk8s-node-0:~$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
mypod    1/1     Running   0           10s
student@sk8s-node-0:~$ logout
Connection to 10.250.3.115 closed.
student@node-1:~$
  
```

NEW QUESTION 4

Exhibit:



Context

As a Kubernetes application developer you will often find yourself needing to update a running application. Task Please complete the following:

- Update the app deployment in the kdpd00202 namespace with a maxSurge of 5% and a maxUnavailable of 2%
- Perform a rolling update of the web1 deployment, changing the lfcncf/ngmx image version to 1.13
- Roll back the app deployment to the previous version

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```

Readme Web Terminal THE LINUX FOUNDATION
student@node-1:~$ kubectl edit deployment app -n kdpd00202
  
```

```

Readme  Web Terminal  THE LINUX FOUNDATION

uid: 1dfa2527-5c61-46a9-8dd3-e24643d3ce14
spec:
  progressDeadlineSeconds: 600
  replicas: 10
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
    rollingUpdate:
      maxSurge: 5%
      maxUnavailable: 2
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: nginx
    spec:
      containers:
      - image: lfcncf/nginx:1.13
        imagePullPolicy: IfNotPresent
        name: nginx
        ports:
        - containerPort: 80
          protocol: TCP
:wq!

```

```

Readme  Web Terminal  THE LINUX FOUNDATION

student@node-1:~$ kubectl edit deployment app -n kdpd00202
deployment.apps/app edited
student@node-1:~$ kubectl rollout status deployment app -n kdpd00202
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 8 of 10 updated replicas are available...
Waiting for deployment "app" rollout to finish: 9 of 10 updated replicas are available...
deployment "app" successfully rolled out
student@node-1:~$ kubectl rollout undo deployment app -n kdpd00202
deployment.apps/app rolled back
student@node-1:~$ kubectl rollout status deployment app -n kdpd00202

```

```

student@node-1:~$ kubectl rollout status deployment app -n kdpd00202
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 8 of 10 updated replicas are available...
Waiting for deployment "app" rollout to finish: 9 of 10 updated replicas are available...
deployment "app" successfully rolled out
student@node-1:~$

```

NEW QUESTION 5

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

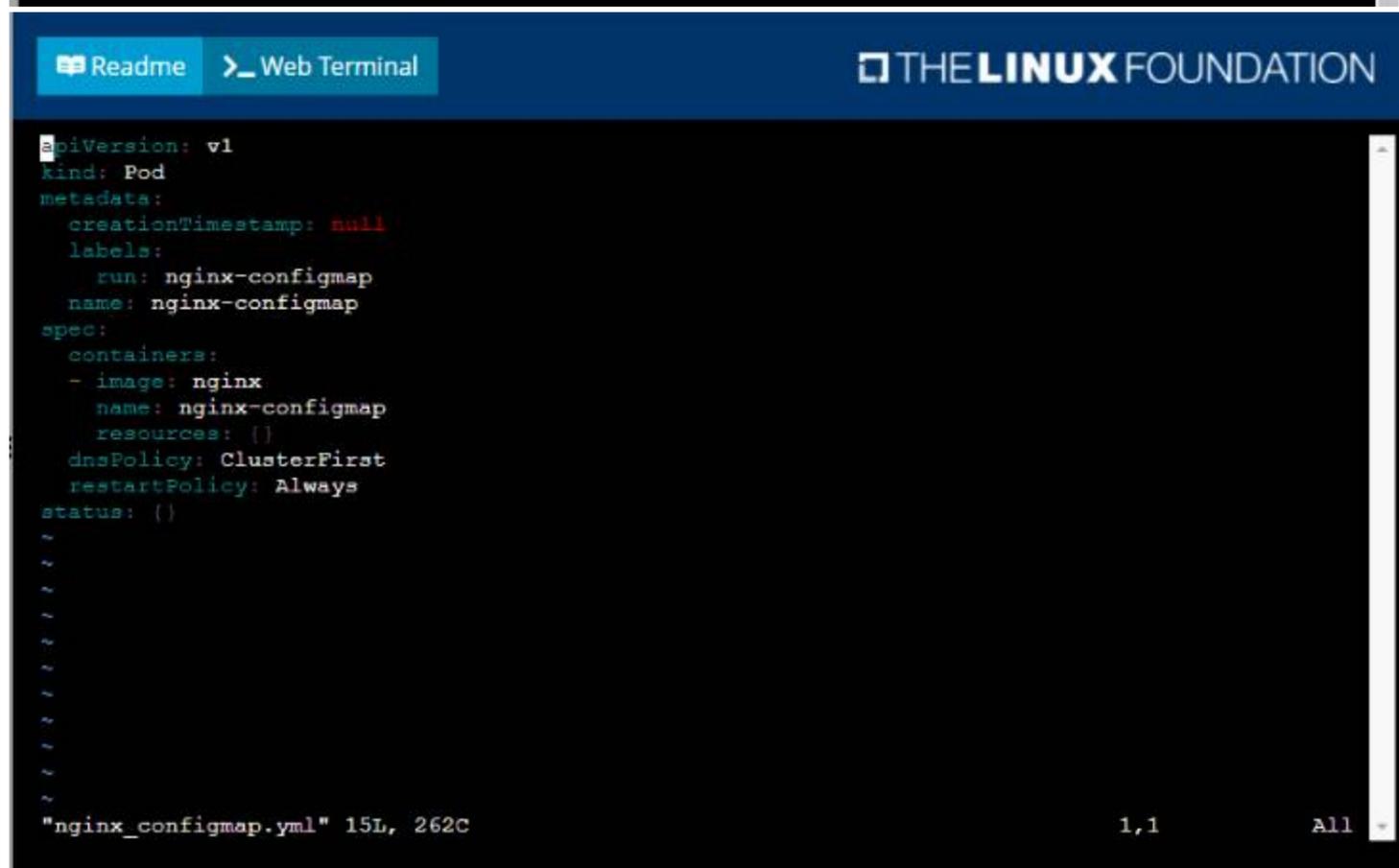
- A. Mastered
- B. Not Mastered

Answer: A

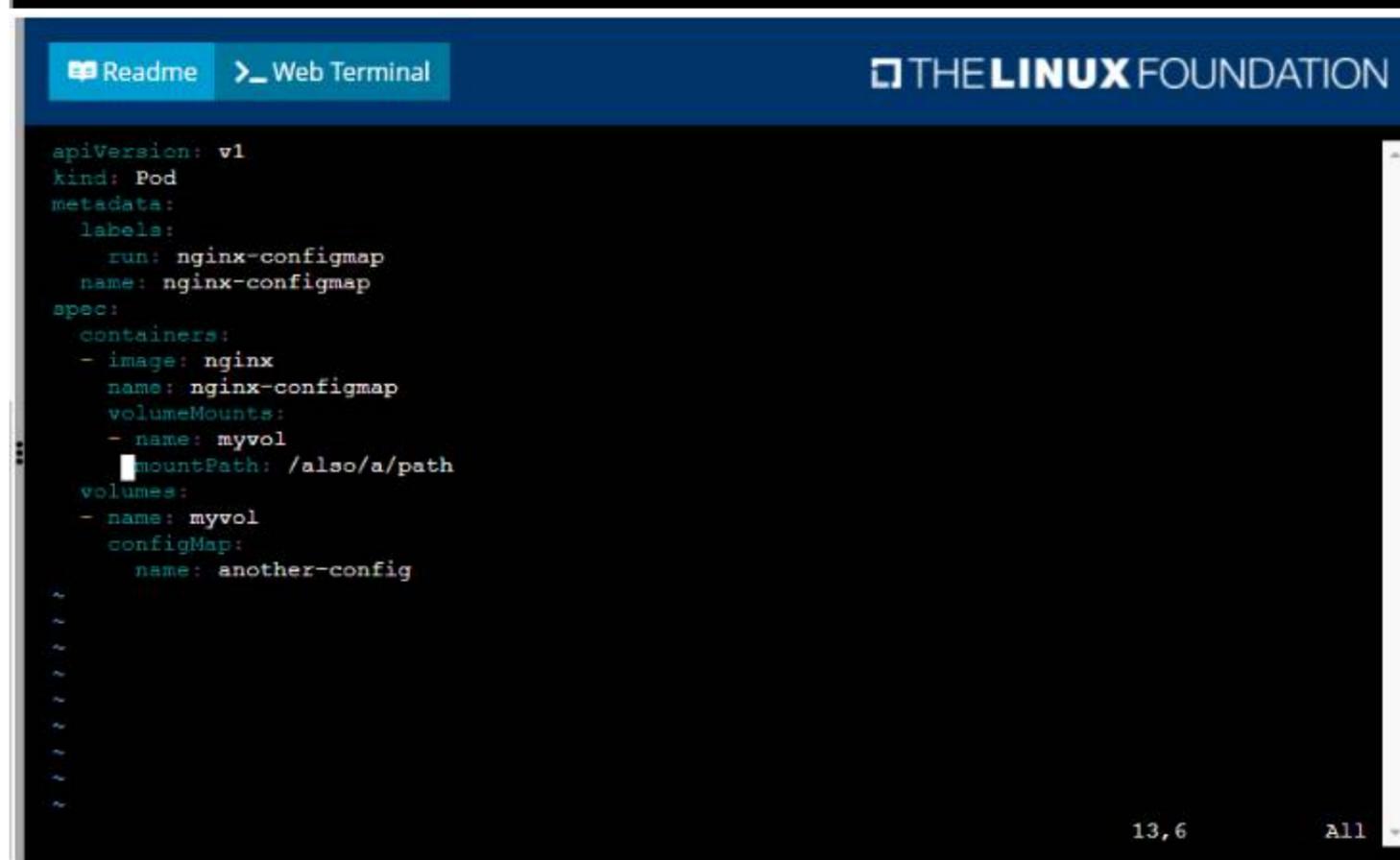
Explanation:

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 > nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml ^C
student@node-1:~$ mv nginx_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_co
```



```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-configmap
  name: nginx-configmap
spec:
  containers:
  - image: nginx
    name: nginx-configmap
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
```



```
apiVersion: v1
kind: Pod
metadata:
  labels:
    run: nginx-configmap
  name: nginx-configmap
spec:
  containers:
  - image: nginx
    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 > nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml ^C
student@node-1:~$ mv nginx_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml
student@node-1:~$
```

[Readme](#)
[Web Terminal](#)



```
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.v1.Container; if you choose to ignore 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
liveness-http 1/1    Running  0          6h44m
nginx-101     1/1    Running  0          6h45m
nginx-configmap 0/1    ContainerCreating 0      5s
nginx-secret  1/1    Running  0          5m39s
poller        1/1    Running  0          6h44m
student@node-1:~$ kubectl get pods
NAME          READY  STATUS   RESTARTS  AGE
liveness-http 1/1    Running  0          6h44m
nginx-101     1/1    Running  0          6h45m
nginx-configmap 1/1    Running  0          8s
nginx-secret  1/1    Running  0          5m42s
poller        1/1    Running  0          6h45m
student@node-1:~$
```

NEW QUESTION 10

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