

## CKAD Dumps

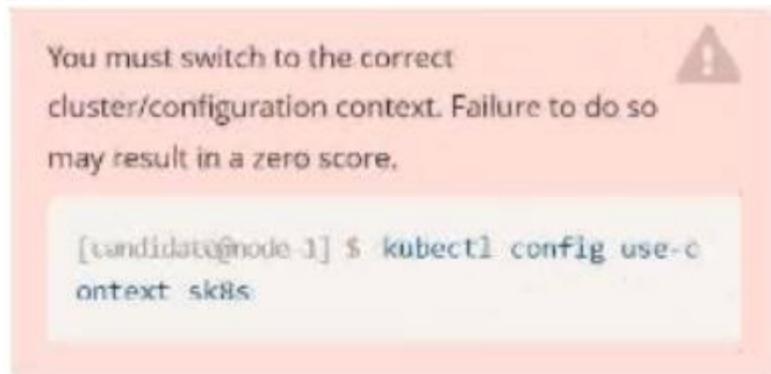
### Certified Kubernetes Application Developer (CKAD) Program

<https://www.certleader.com/CKAD-dumps.html>

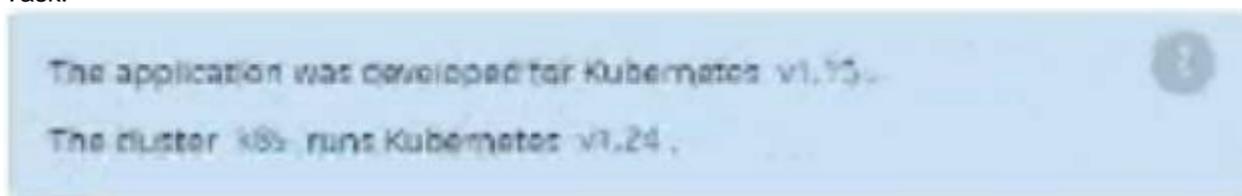


NEW QUESTION 1

Exhibit:



Task:



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
candidate@node-1:~$ kubectl config use-context sk8s  
Switched to context "sk8s".  
candidate@node-1:~$ vim ~/credible-mite/www.yaml
```

Text Description automatically generated

```
File Edit View Terminal Tabs Help  
apiVersion: apps/v1  
kind: Deployment  
metadata:  
  name: www-deployment  
  namespace: cobra  
spec:  
  replicas: 3  
  selector:  
    matchLabels:  
      app: nginx  
  template:  
    metadata:  
      labels:  
        app: nginx  
    spec:  
      containers:  
        - name: nginx  
          image: "nginx:stable"  
          ports:  
            - containerPort: 80  
          volumeMounts:  
            - mountPath: /var/log/nginx  
              name: logs  
          env:  
            - name: NGINX_ENTRYPOINT_QUIET_LOGS  
              value: "1"  
      volumes:  
        - name: logs  
          emptyDir: {}
```

Text Description automatically generated

```

File Edit View Terminal Tabs Help
deployment.apps/expose created
candidate@node-1:~$ kubectl get pods -n ckad00014
NAME                                READY   STATUS              RESTARTS   AGE
expose-85dd99d4d9-25675             0/1    ContainerCreating   0           6s
expose-85dd99d4d9-4fhcc             0/1    ContainerCreating   0           6s
expose-85dd99d4d9-fl7j             0/1    ContainerCreating   0           6s
expose-85dd99d4d9-tt6rm            0/1    ContainerCreating   0           6s
expose-85dd99d4d9-vjd8b            0/1    ContainerCreating   0           6s
expose-85dd99d4d9-vtzpq            0/1    ContainerCreating   0           6s
candidate@node-1:~$ kubectl get deploy -n ckad00014
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
expose   6/6     6             6            15s
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/credible-mite/www.yaml
candidate@node-1:~$ vim ~/credible-mite/www.yaml
candidate@node-1:~$ kubectl apply -f ~/credible-mite/www.yaml
deployment.apps/www-deployment created
candidate@node-1:~$ kubectl get pods -n cobra
NAME                                READY   STATUS              RESTARTS   AGE
www-deployment-d899c6b49-d6ccg      1/1    Running             0           6s
www-deployment-d899c6b49-f796l      0/1    ContainerCreating   0           6s
www-deployment-d899c6b49-ztfcw      0/1    ContainerCreating   0           6s
candidate@node-1:~$ kubectl get deploy -n cobra
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
www-deployment  3/3     3             3            11s
candidate@node-1:~$ kubectl get pods -n cobra
NAME                                READY   STATUS              RESTARTS   AGE
www-deployment-d899c6b49-d6ccg      1/1    Running             0           14s
www-deployment-d899c6b49-f796l      1/1    Running             0           14s
www-deployment-d899c6b49-ztfcw      1/1    Running             0           14s
candidate@node-1:~$

```

**NEW QUESTION 2**

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 lfcncf/redis image with the 3.2 tag
- Expose port 6379

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```

Readme Web Terminal THE LINUX FOUNDATION
student@node-1:~$ kubectl run cache --image=lfcncf/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:~$

```

**NEW QUESTION 3**

Exhibit:



Task:

- > To run 2 replicas of the pod
- > Add the following label on the pod:  
Role userUI

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

Text Description automatically generated

```
File Edit View Terminal Tabs Help
# reopened with the relevant failures.
#
apiVersion: apps/v1
kind: Deployment
metadata:
  annotations:
    deployment.kubernetes.io/revision: "1"
  creationTimestamp: "2022-09-24T04:27:03Z"
  generation: 1
  labels:
    app: nginx
  name: ckad00017-deployment
  namespace: ckad00017
  resourceVersion: "3349"
  uid: 1cd67613-fade-46e9-b741-94298b9c6e7c
spec:
  progressDeadlineSeconds: 600
  replicas: 2
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
    rollingUpdate:
      maxSurge: 25%
      maxUnavailable: 25%
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
      labels:
-- INSERT --
33, 14 5%
```

Text Description automatically generated

```

File Edit View Terminal Tabs Help
name: ckad00017-deployment
namespace: ckad00017
resourceVersion: "3349"
uid: 1cd67613-fade-46e9-b741-94298b9c6e7c
spec:
  progressDeadlineSeconds: 600
  replicas: 2
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
    rollingUpdate:
      maxSurge: 25%
      maxUnavailable: 25%
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: nginx
        role: userUI
    spec:
      containers:
      - image: nginx:latest
        imagePullPolicy: Always
        name: nginx
        ports:
        - containerPort: 80
          protocol: TCP
        resources: {}
-- INSERT --
35,21 33%

```

Text Description automatically generated

```

File Edit View Terminal Tabs Help
backend-deployment-59d449b99d-h2zjq 0/1 Running 0 9s
backend-deployment-78976f74f5-b8c85 1/1 Running 0 6h40m
backend-deployment-78976f74f5-flfsj 1/1 Running 0 6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME READY UP-TO-DATE AVAILABLE AGE
backend-deployment 3/3 3 3 6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME READY UP-TO-DATE AVAILABLE AGE
backend-deployment 3/3 3 3 6h41m
candidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl set serviceaccount deploy app-1 app -n frontend
deployment.apps/app-1 serviceaccount updated
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
candidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
candidate@node-1:~$ kubectl apply -f ~/prompt-escargot/buffalo-deployment.yaml
deployment.apps/buffalo-deployment configured
candidate@node-1:~$ kubectl get pods -n gorilla
NAME READY STATUS RESTARTS AGE
buffalo-deployment-776844df7f-r5fsb 1/1 Running 0 6h38m
buffalo-deployment-859898c6f5-zx5gj 0/1 ContainerCreating 0 8s
candidate@node-1:~$ kubectl get deploy -n gorilla
NAME READY UP-TO-DATE AVAILABLE AGE
buffalo-deployment 1/1 1 1 6h38m
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy ckad00017-deployment -n ckad00017
deployment.apps/ckad00017-deployment edited
candidate@node-1:~$

```

```

candidate@node-1:~$ kubectl get pods -n gorilla
NAME                                READY   STATUS    RESTARTS   AGE
buffalo-deployment-776844df7f-r5fsb 1/1     Running   0           6h38m
buffalo-deployment-859898c6f5-zx5gj 0/1     ContainerCreating 0           8s
candidate@node-1:~$ kubectl get deploy -n gorilla
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
buffalo-deployment 1/1     1             1           6h38m
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy ckad00017-deployment -n ckad00017
deployment.apps/ckad00017-deployment edited
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad00017
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad00017
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad00017
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad00017
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad00017
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad00017
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad00017
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
service/cherry exposed
candidate@node-1:~$

```

```

candidate@node-1:~$ kubectl get svc
NAME                TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)    AGE
kubernetes           ClusterIP   10.96.0.1    <none>        443/TCP    77d
candidate@node-1:~$ kubectl get svc -n ckad00017
NAME                TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)    AGE
cherry              NodePort    10.100.100.176 <none>        8888:30683/TCP 24s
candidate@node-1:~$ kubectl expose service deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
Error from server (NotFound): services "deploy" not found
Error from server (NotFound): services "ckad00017-deployment" not found
candidate@node-1:~$ kubectl get svc -n ckad00017
NAME                TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)    AGE
cherry              NodePort    10.100.100.176 <none>        8888:30683/TCP 46s
candidate@node-1:~$

```

```

candidate@node-1:~$ kubectl expose service deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
Error from server (NotFound): services "deploy" not found
Error from server (NotFound): services "ckad00017-deployment" not found
candidate@node-1:~$ kubectl get svc -n ckad00017
NAME                TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)    AGE
cherry              NodePort    10.100.100.176 <none>        8888:30683/TCP 46s
candidate@node-1:~$ history
  1 vi ~/spicy-pikachu/backend-deployment.yaml
  2 kubectl config use-context sk8s
  3 vim .vimrc
  4 vim ~/spicy-pikachu/backend-deployment.yaml
  5 kubectl apply -f ~/spicy-pikachu/backend-deployment.yaml
  6 kubectl get pods -n staging
  7 kubectl get deploy -n staging
  8 vim ~/spicy-pikachu/backend-deployment.yaml
  9 kubectl config use-context k8s
 10 kubectl set serviceaccount deploy app-1 app -n frontend
 11 kubectl config use-context k8s
 12 vim ~/prompt-escargot/buffalo-deployment.yaml
 13 kubectl apply -f ~/prompt-escargot/buffalo-deployment.yaml
 14 kubectl get pods -n gorilla
 15 kubectl get deploy -n gorilla
 16 kubectl config use-context k8s
 17 kubectl edit deploy ckad00017-deployment -n ckad00017
 18 kubectl expose deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
 19 kubectl get svc
 20 kubectl get svc -n ckad00017
 21 kubectl expose service deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
 22 kubectl get svc -n ckad00017
 23 history
candidate@node-1:~$

```

**NEW QUESTION 4**

Exhibit:

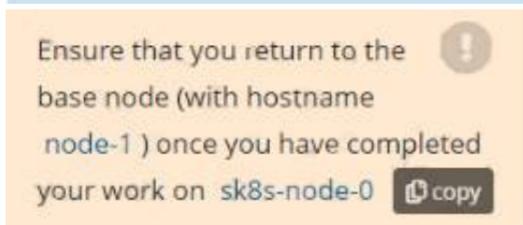
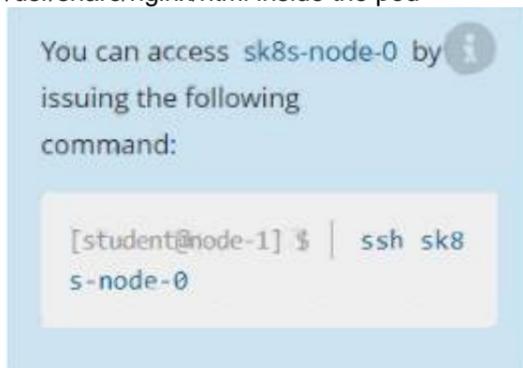


Context

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

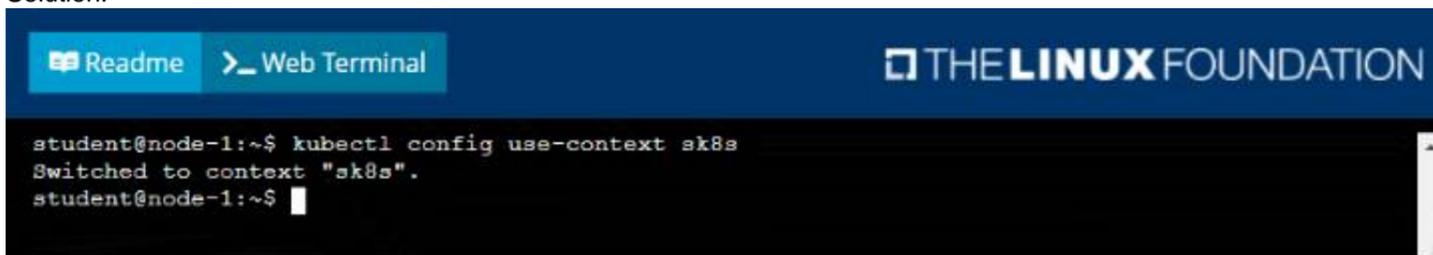


- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:



```
Readme Web Terminal THE LINUX FOUNDATION

* 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

student@sk8s-node-0:~$ echo 'Acct=Finance' > /opt/KDSP00101/data/index.html
student@sk8s-node-0:~$ vim pv.yml
█
```

```
Readme Web Terminal THE LINUX FOUNDATION

-- INSERT --                                0,1                                All
```

```
Readme Web Terminal THE LINUX FOUNDATION

apiVersion: v1
kind: PersistentVolume
metadata:
  name: task-pv-volume
spec:
  capacity:
    storage: 1Gi
  accessModes:
  - ReadWriteOnce
  storageClassName: storage
  hostPath:
    path: /opt/KDSP00101/data
    type: Directory
```





Context

Your application's namespace requires a specific service account to be used.

Task

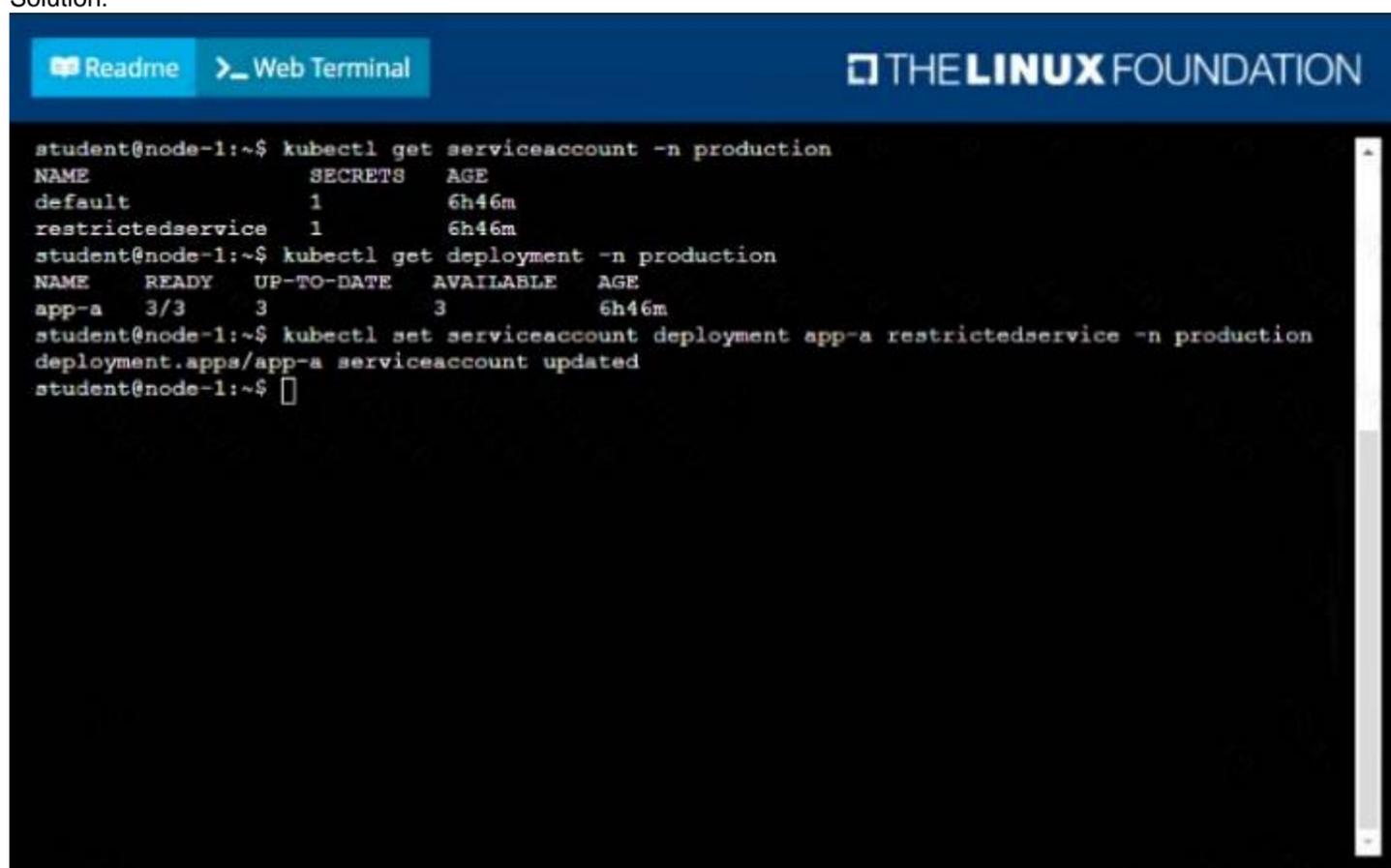
Update the app-a deployment in the production namespace to run as the restrictedservice service account. The service account has already been created.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:



**NEW QUESTION 6**

Exhibit:



Context

Developers occasionally need to submit pods that run periodically. Task

Follow the steps below to create a pod that will start at a predetermined time and which runs to completion only once each time it is started:

- Create a YAML formatted Kubernetes manifest /opt/KDPD00301/periodic.yaml that runs the following shell command: date in a single busybox container. The command should run every minute and must complete within 22 seconds or be terminated by Kubernetes. The Cronjob name and container name should both be hello
- Create the resource in the above manifest and verify that the job executes successfully at least once

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:

```

student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yaml", allowed formats are: go-t
emplate,go-template-file,json,jsonpath,jsonpath-as-json,jsonpath-file,name,template,templatefile
,yaml
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
student@node-1:~$ vim /opt/KDPD00301/periodic.yaml

```

```

apiVersion: batch/v1beta1
kind: CronJob
metadata:
  name: hello
spec:
  jobTemplate:
    metadata:
      name: hello
    spec:
      template:
        spec:
          containers:
            - image: busybox
              name: hello
              args: ["/bin/sh", "-c", "date"]
              restartPolicy: Never
          schedule: '*/* * * * *'
          startingDeadlineSeconds: 22
          concurrencyPolicy: Allow

```

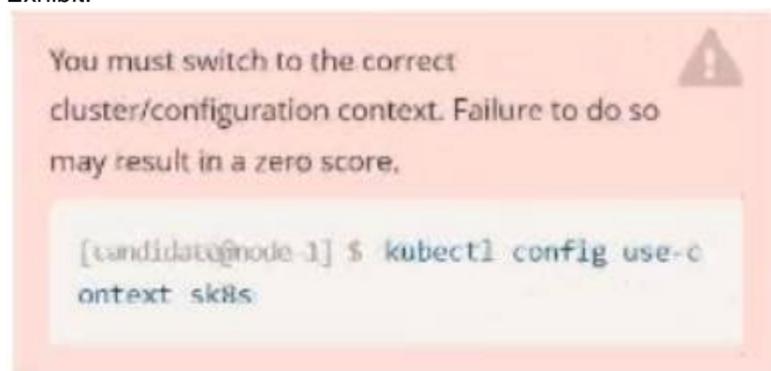
```

student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yaml", allowed formats are: go-t
emplate,go-template-file,json,jsonpath,jsonpath-as-json,jsonpath-file,name,template,templatefile
,yaml
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
student@node-1:~$ vim /opt/KDPD00301/periodic.yaml
student@node-1:~$ kubectl create -f /opt/KDPD00301/periodic.yaml
cronjob.batch/hello created
student@node-1:~$ kubectl get cronjob
NAME      SCHEDULE      SUSPEND   ACTIVE   LAST SCHEDULE   AGE
hello    */1 * * * *   False    0        <none>          6s
student@node-1:~$

```

**NEW QUESTION 7**

Exhibit:



Task:

Create a Pod named nginx resources in the existing pod resources namespace. Specify a single container using nginx:stable image. Specify a resource request of 300m cpus and 1G1 of memory for the Pod's container.

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

**Solution:**

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl run nginx-resources -n pod-resources --image=nginx:stable --dry-run=client -o yaml > hw.yaml
candidate@node-1:~$ vim hw.yaml
```

Text Description automatically generated with medium confidence

```
File Edit View Terminal Tabs Help
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-resources
  name: nginx-resources
  namespace: pod-resources
spec:
  containers:
  - image: nginx:stable
    name: nginx-resources
    resources:
      requests:
        cpu: 300m
        memory: "1Gi"
```

Text Description automatically generated

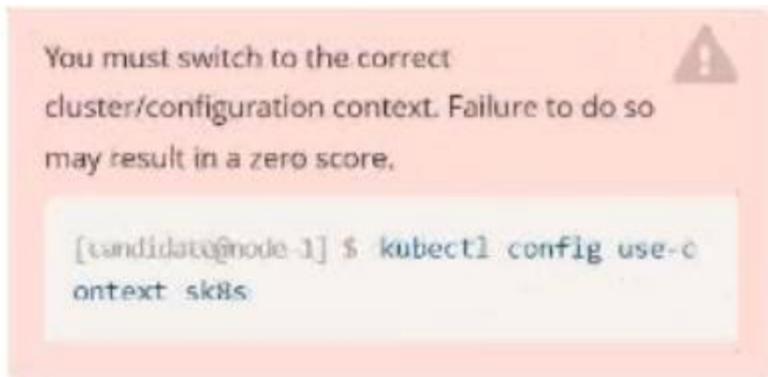
```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl run nginx-resources -n pod-resources --image=nginx:stable --dry-run=client -o yaml > hw.yaml
candidate@node-1:~$ vim hw.yaml
candidate@node-1:~$ kubectl create -f hw.yaml
pod/nginx-resources created
candidate@node-1:~$ kubectl get pods -n pod-resources
NAME          READY   STATUS    RESTARTS   AGE
nginx-resources 1/1     Running   0          13s
candidate@node-1:~$ kubectl describe pods -n pod-resources
```

Text Description automatically generated

```
File Edit View Terminal Tabs Help
memory: 1Gi
Environment: <none>
Mounts:
  /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-dmx9j (ro)
Conditions:
  Type             Status
  Initialized       True
  Ready             True
  ContainersReady  True
  PodScheduled     True
Volumes:
  kube-api-access-dmx9j:
    Type: Projected (a volume that contains injected data from multiple sources)
    TokenExpirationSeconds: 3607
    ConfigMapName: kube-root-ca.crt
    ConfigMapOptional: <nil>
    DownwardAPI: true
QoS Class:           Burstable
Node-Selectors:      <none>
Tolerations:         node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
                     node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
  Type    Reason      Age   From          Message
  ----    -
  Normal  Scheduled   20s   default-scheduler  Successfully assigned pod-resources/nginx-resources to k8s-node-0
  Normal  Pulling    19s   kubelet        Pulling image "nginx:stable"
  Normal  Pulled     13s   kubelet        Successfully pulled image "nginx:stable" in 6.55664052s
  Normal  Created    13s   kubelet        Created container nginx-resources
  Normal  Started    12s   kubelet        Started container nginx-resources
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl create deploy expose -n ckad00014 --image lfccncf/nginx:1.13.7 --dry-run=client -o yaml >
```

**NEW QUESTION 8**

Exhibit:



Task:

Modify the existing Deployment named broker-deployment running in namespace quetzal so that its containers. The broker-deployment is manifest file can be found at:

```
~/daring-mocasin/broker-deployment.yaml
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim
```

Text Description automatically generated

```
File Edit View Terminal Tabs Help
containers:
- name: broker
  image: redis:alpine
  ports:
  - containerPort: 6379
securityContext:
  runAsUser: 30000
  privileged: false
```

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/daring-mocasin/broker-deployment.yaml
candidate@node-1:~$ kubectl apply -f ~/daring-mocasin/broker-deployment.yaml
deployment.apps/broker-deployment configured
candidate@node-1:~$ kubectl get pods -n quetzal
NAME                                READY   STATUS    RESTARTS   AGE
broker-deployment-65446d6d94-868p6  1/1     Running   0           30s
broker-deployment-65446d6d94-8dn7l  1/1     Running   0           32s
broker-deployment-65446d6d94-p4h4l  1/1     Running   0           31s
candidate@node-1:~$ kubectl get deploy -n quetzal
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
broker-deployment  3/3     3             3           7h3m
candidate@node-1:~$
```

**NEW QUESTION 9**

Exhibit:



**Task**

Create a new deployment for running nginx with the following parameters;

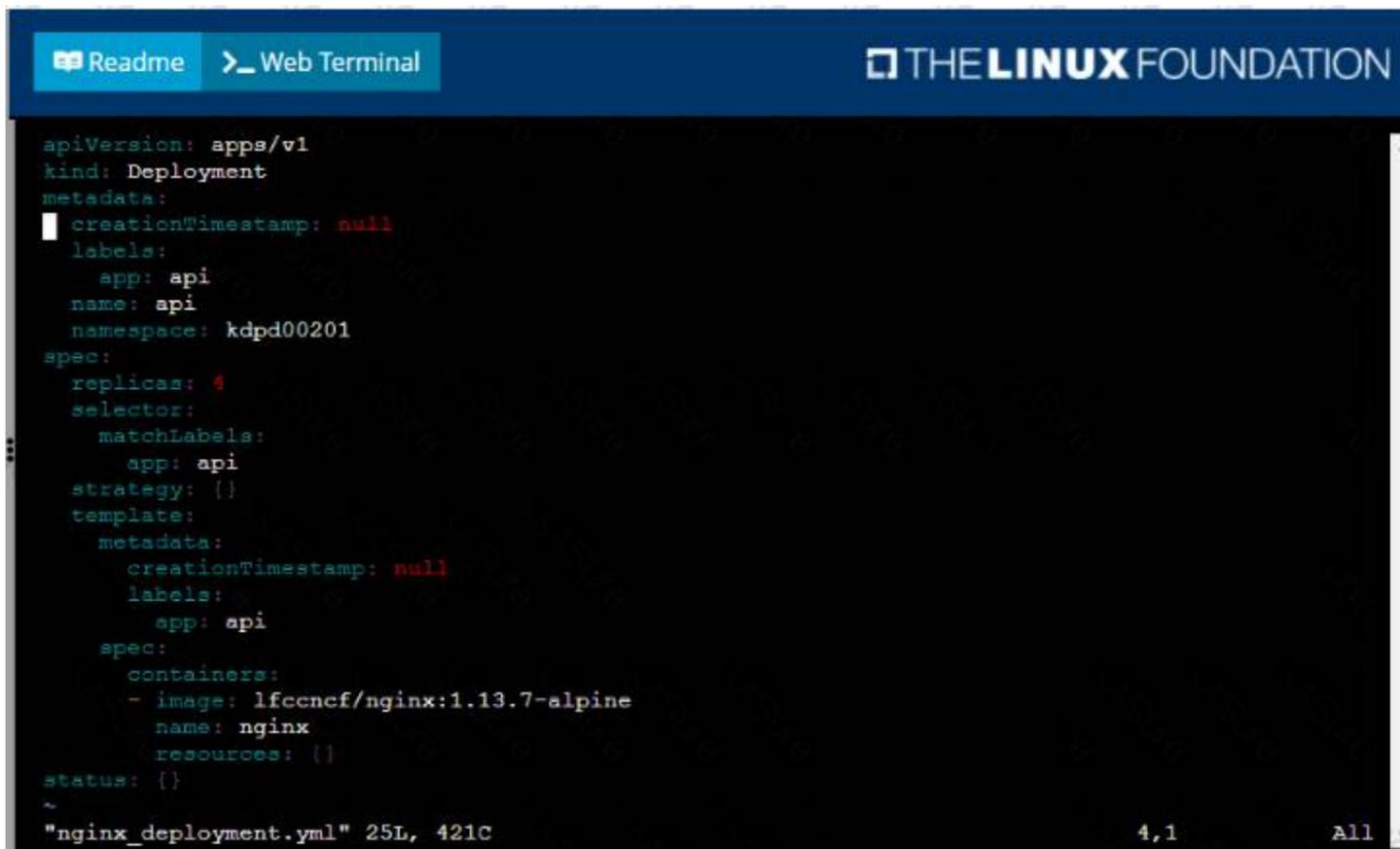
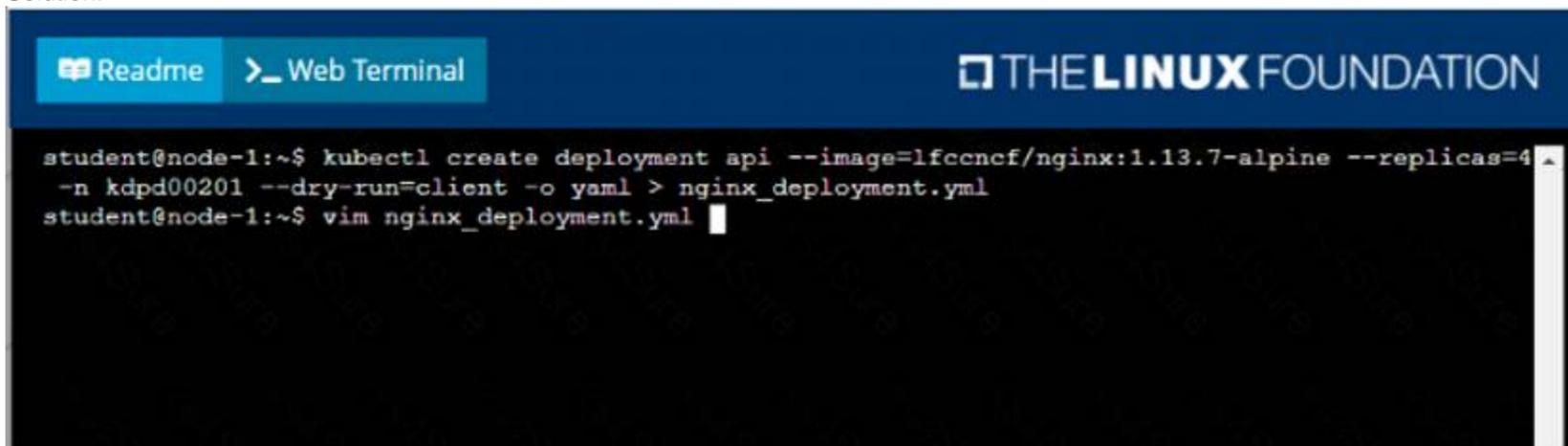
- Run the deployment in the kdpd00201 namespace. The namespace has already been created
- Name the deployment frontend and configure with 4 replicas
- Configure the pod with a container image of lfcncf/nginx:1.13.7
- Set an environment variable of NGINX PORT=8080 and also expose that port for the container above

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Solution:**



```

Readme Web Terminal THE LINUX FOUNDATION
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app: api
  name: api
  namespace: kdpd00201
spec:
  replicas: 4
  selector:
    matchLabels:
      app: api
  template:
    metadata:
      labels:
        app: api
    spec:
      containers:
      - image: lfcncf/nginx:1.13.7-alpine
        name: nginx
        ports:
        - containerPort: 8080
        env:
        - name: NGINX_PORT
          value: "8080"

```

```

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student@node-1:~$ kubectl create deployment api --image=lfcncf/nginx:1.13.7-alpine --replicas=4
-n kdpd00201 --dry-run=client -o yaml > nginx_deployment.yml
student@node-1:~$ vim nginx_deployment.yml
student@node-1:~$ kubectl create nginx_deployment.yml
Error: must specify one of -f and -k

error: unknown command "nginx_deployment.yml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_deployment.yml
error: error validating "nginx_deployment.yml": error validating data: ValidationError(Deployment.spec.template.spec): unknown field "env" in io.k8s.api.core.v1.PodSpec; if you choose to ignore these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_deployment.yml
student@node-1:~$ kubectl create -f nginx_deployment.yml
deployment.apps/api created
student@node-1:~$ kubectl get pods -n kdpd00201
NAME                READY   STATUS    RESTARTS   AGE
api-745677f7dc-7hnmv 1/1     Running   0           13s
api-745677f7dc-9q5vp 1/1     Running   0           13s
api-745677f7dc-fd4gk 1/1     Running   0           13s
api-745677f7dc-mbnpc 1/1     Running   0           13s
student@node-1:~$

```

**NEW QUESTION 10**

Exhibit:



Given a container that writes a log file in format A and a container that converts log files from format A to format B, create a deployment that runs both containers such that the log files from the first container are converted by the second container, emitting logs in format B.

Task:

- Create a deployment named deployment-xyz in the default namespace, that:
  - Includes a primary lfcncf/busybox:1 container, named logger-dev
  - includes a sidecar lfcncf/fluentd:v0.12 container, named adapter-zen
  - Mounts a shared volume /tmp/log on both containers, which does not persist when the pod is deleted
  - Instructs the logger-dev container to run the command

```

while true; do
  echo "i luv cncf" >> /tmp/log/input.log;
  sleep 10;
done

```

which should output logs to /tmp/log/input.log in plain text format, with example values:

```
i luv cncf
i luv cncf
i luv cncf
```

• The adapter-zen sidecar container should read /tmp/log/input.log and output the data to /tmp/log/output.\* in Fluentd JSON format. Note that no knowledge of Fluentd is required to complete this task: all you will need to achieve this is to create the ConfigMap from the spec file provided at /opt/KDMC00102/fluentd-configmap.p.yaml , and mount that ConfigMap to /fluentd/etc in the adapter-zen sidecar container

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Solution:**

```
student@node-1:~$ kubectl create deployment deployment-xyz --image=lfcncf/busybox:1 --dry-run=c
lient -o yaml > deployment_xyz.yml
student@node-1:~$ vim deployment_xyz.yml
```

```
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: deployment-xyz
  name: deployment-xyz
spec:
  replicas: 1
  selector:
    matchLabels:
      app: deployment-xyz
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: deployment-xyz
    spec:
      containers:
      - image: lfcncf/busybox:1
        name: busybox
        resources: {}
status: {}
~
~
"deployment_xyz.yml" 24L, 434C          3,1          All
```

```
kind: Deployment
metadata:
  labels:
    app: deployment-xyz
  name: deployment-xyz
spec:
  replicas: 1
  selector:
    matchLabels:
      app: deployment-xyz
  template:
    metadata:
      labels:
        app: deployment-xyz
    spec:
      volumes:
      - name: myvol1
        emptyDir: {}
      containers:
      - image: lfcncf/busybox:1
        name: logger-dev
        volumeMounts:
        - name: myvol1
          mountPath: /tmp/log
      - image: lfcncf/fluentd:v0.12
        name: adapterzen
3 lines yanked          27,22          Bot
```

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```

replicas: 1
selector:
  matchLabels:
    app: deployment-xyz
template:
  metadata:
    labels:
      app: deployment-xyz
  spec:
    volumes:
      - name: myvol1
        emptyDir: {}
    containers:
      - image: lfcncf/busybox:1
        name: logger-dev
        command: ["/bin/sh", "-c", "while [ true ]; do echo 'i luv cnf' >> /tmp/log/input.log; sl
sleep 10; done"]
        volumeMounts:
          - name: myvol1
            mountPath: /tmp/log
      - image: lfcncf/fluentd:v0.12
        name: adapter-zen
        command: ["/bin/sh", "-c", "tail -f /tmp/log/input.log >> /tmp/log/output.log"]
        volumeMounts:
          - name: myvol1
            mountPath: /tmp/log
  
```

29,83 Bot

Readme Web Terminal THE LINUX FOUNDATION

```

metadata:
  labels:
    app: deployment-xyz
spec:
  volumes:
    - name: myvol1
      emptyDir: {}
    - name: myvol2
      configMap:
        name: logconf
  containers:
    - image: lfcncf/busybox:1
      name: logger-dev
      command: ["/bin/sh", "-c", "while [ true ]; do echo 'i luv cnf' >> /tmp/log/input.log; sl
sleep 10; done"]
      volumeMounts:
        - name: myvol1
          mountPath: /tmp/log
    - image: lfcncf/fluentd:v0.12
      name: adapter-zen
      command: ["/bin/sh", "-c", "tail -f /tmp/log/input.log >> /tmp/log/output.log"]
      volumeMounts:
        - name: myvol1
          mountPath: /tmp/log
        - name: myvol2
          mountPath: /fluentd/et
  
```

37,33 Bot

```

student@node-1:~$ kubectl create -f deployment_xyz.yml
deployment.apps/deployment-xyz created
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 0/1     1             0           5s
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 0/1     1             0           9s
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 1/1     1             1           12s
student@node-1:~$
  
```

NEW QUESTION 10

Exhibit:



**Context**

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

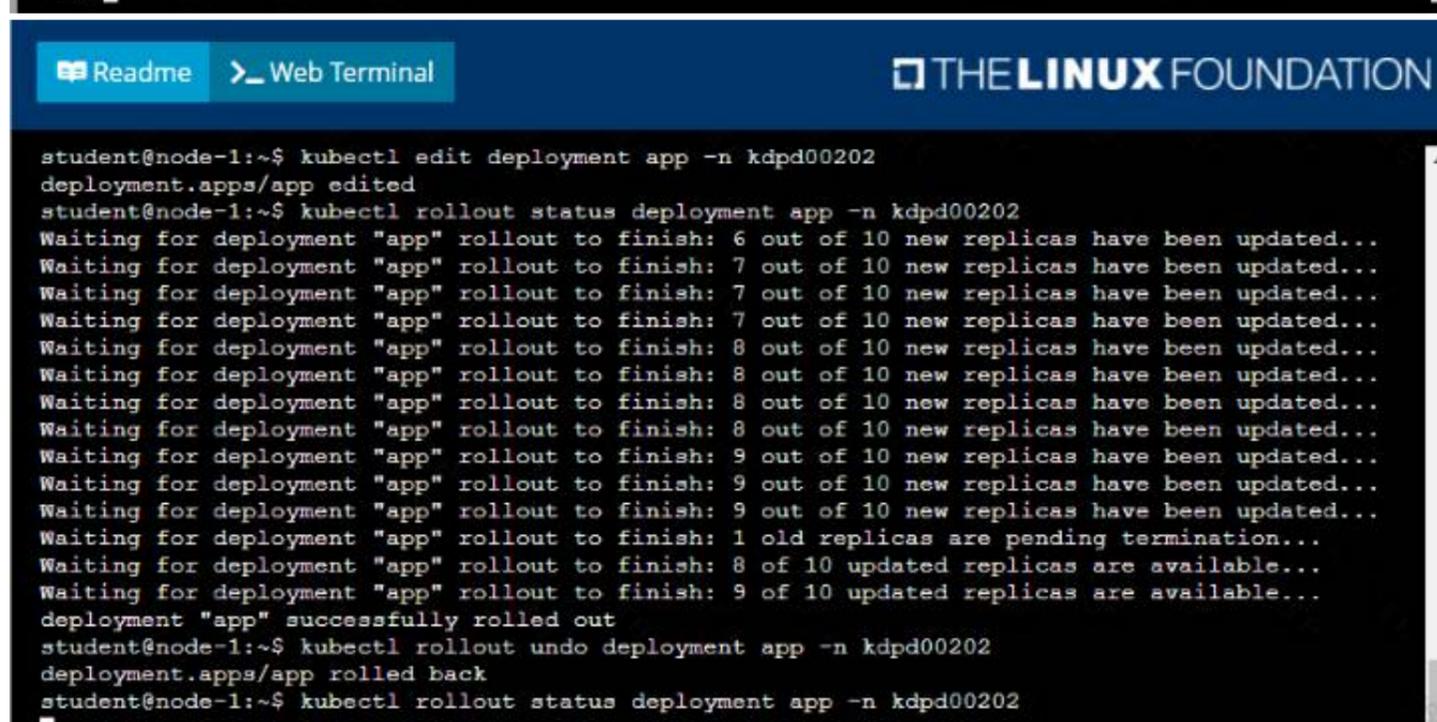
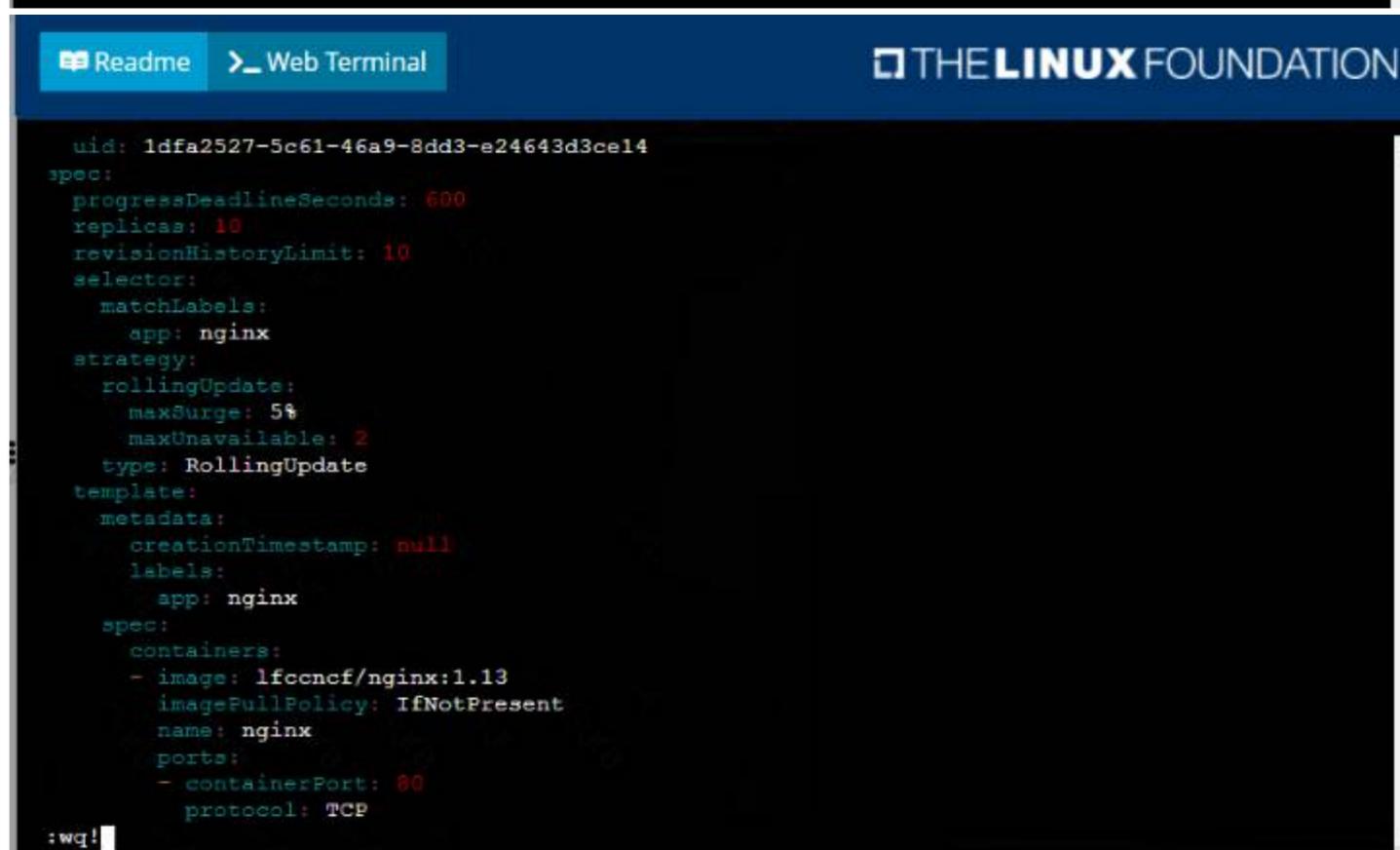
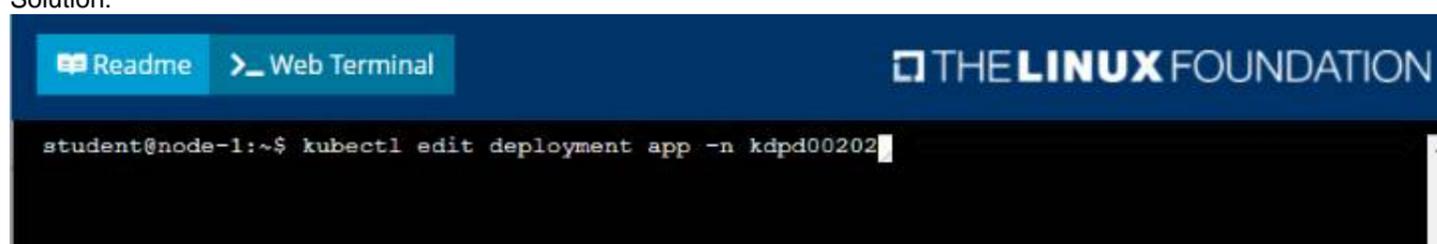
- Update the app deployment in the kdpd00202 namespace with a maxSurge of 5% and a maxUnavailable of 2%
- Perform a rolling update of the web1 deployment, changing the lfcncf/nginx image version to 1.13
- Roll back the app deployment to the previous version

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Solution:**



```
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:~$
```

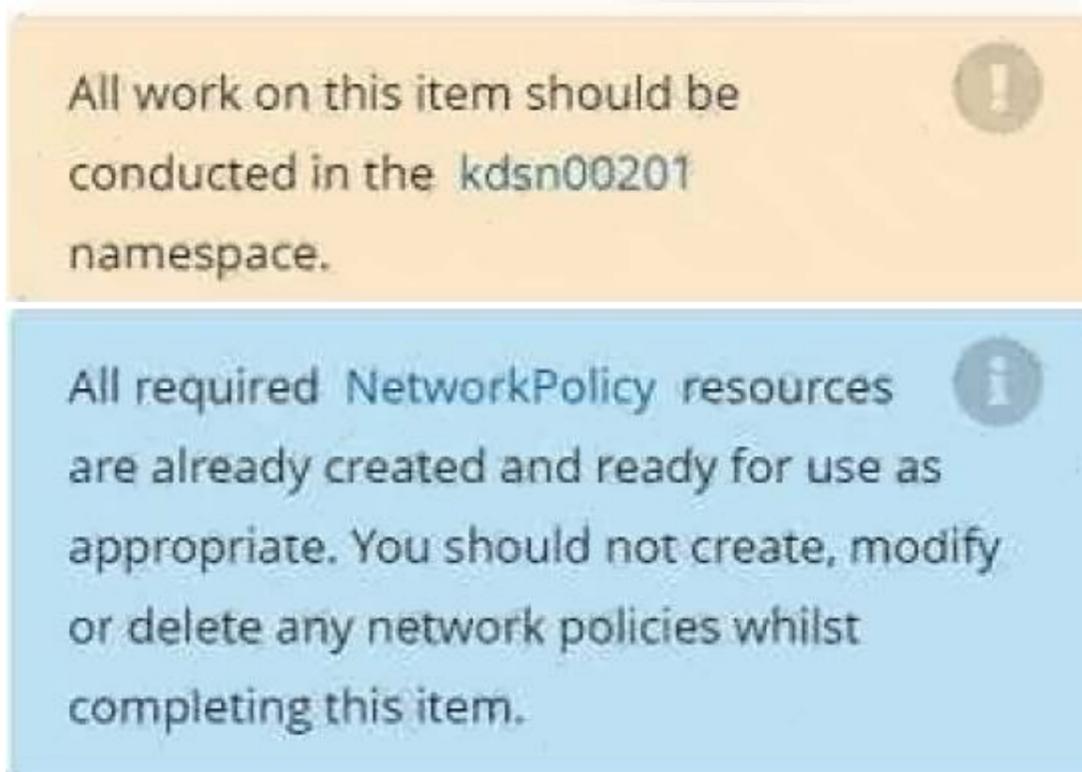
**NEW QUESTION 15**

Exhibit:



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.



- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

```
apiVersion: networking.k8s.io/v1 kind: NetworkPolicy
metadata:
name: internal-policy namespace: default spec:
podSelector: matchLabels: name: internal policyTypes:
- Egress
- Ingress ingress:
- {}
egress:
- to:
- podSelector: matchLabels: name: mysql ports:
- protocol: TCP port: 3306
- to:
- podSelector: matchLabels:
name: payroll ports:
- protocol: TCP port: 8080
- ports:
- port: 53 protocol: UDP
- port: 53 protocol: TCP
```

**NEW QUESTION 18**

.....

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