

## Exam Questions CKAD

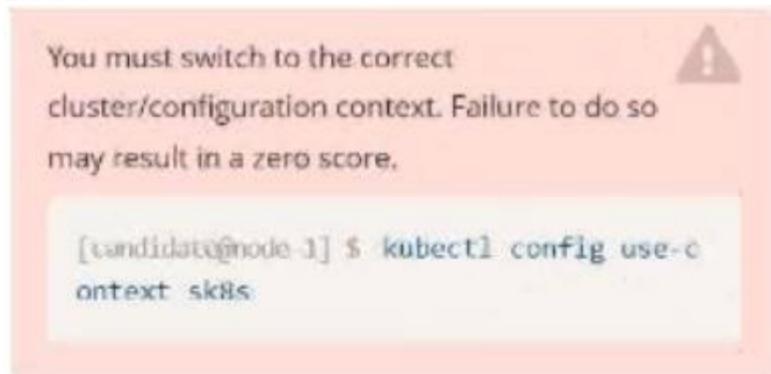
Certified Kubernetes Application Developer (CKAD) Program

<https://www.2passeasy.com/dumps/CKAD/>

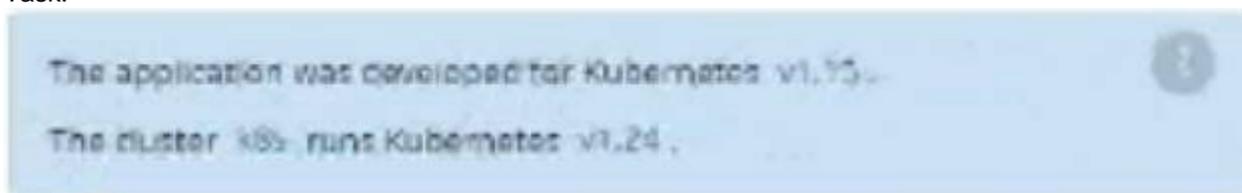


## NEW QUESTION 1

Exhibit:



Task:



- A. Mastered
- B. Not Mastered

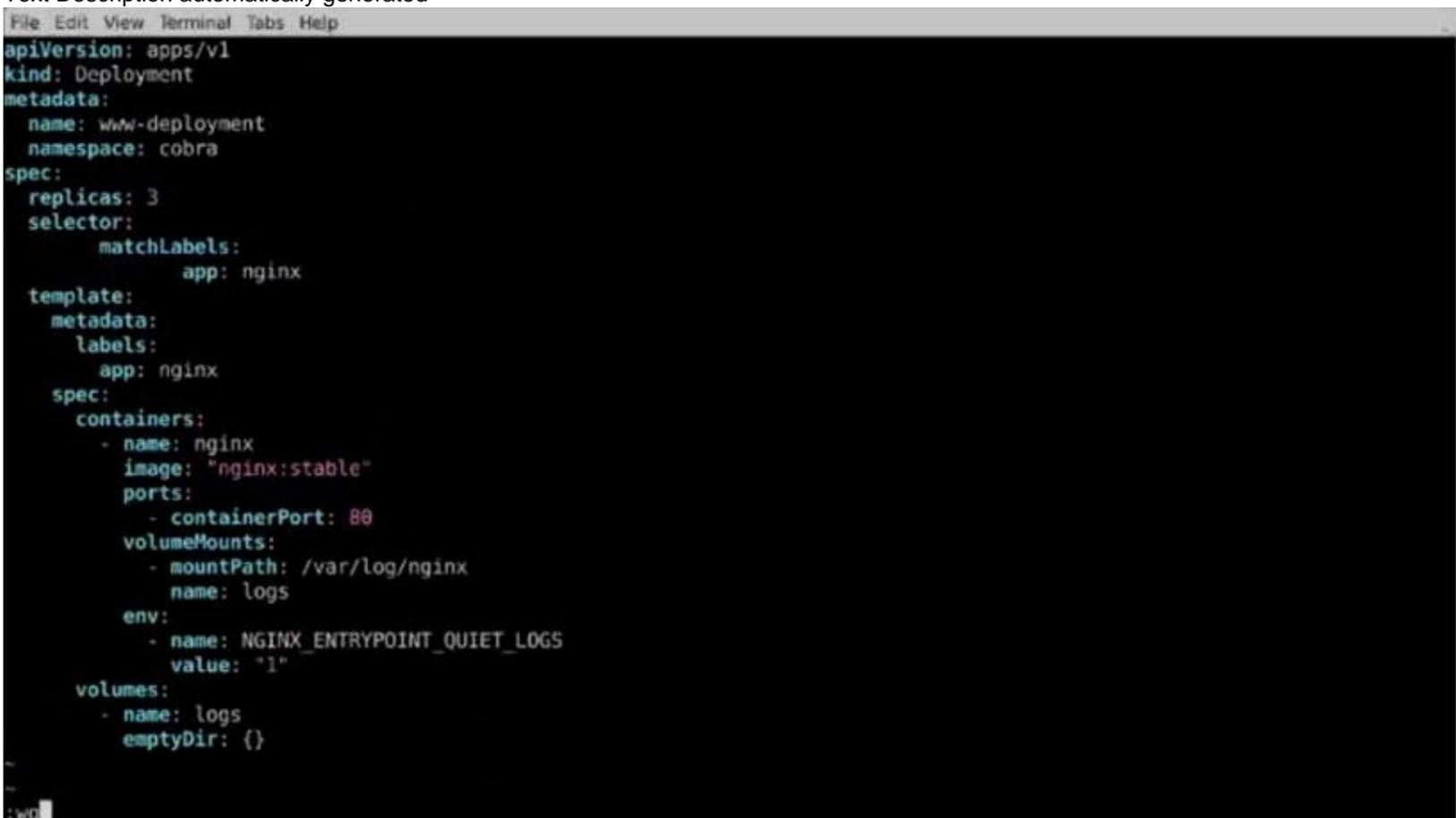
Answer: A

## Explanation:

Solution:

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/credible-mite/www.yaml
```

Text Description automatically generated



Text Description automatically generated

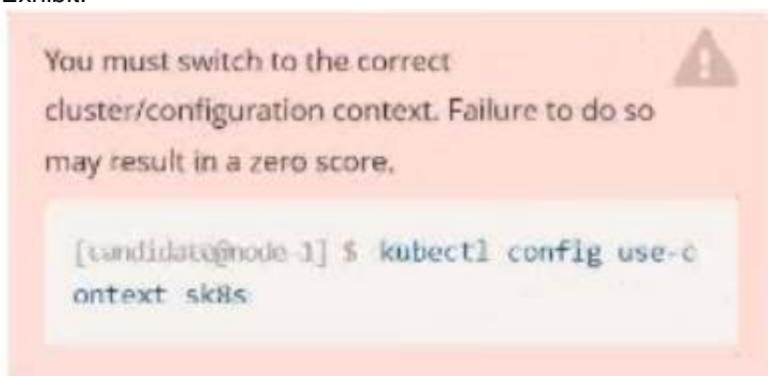
```

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:



Task:

- 1- Update the Propertunel scaling configuration of the Deployment web1 in the ckad00015 namespace setting maxSurge to 2 and maxUnavailable to 59
- 2- Update the web1 Deployment to use version tag 1.13.7 for the lflconf/nginx container image.
- 3- Perform a rollback of the web1 Deployment to its previous version

- 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 edit deploy web1 -n ckad00015

```

Text Description automatically generated

```
File Edit View Terminal Tabs Help
app: nginx
strategy:
  rollingUpdate:
    maxSurge: 2%
    maxUnavailable: 5%
  type: RollingUpdate
template:
  metadata:
    creationTimestamp: null
    labels:
      app: nginx
  spec:
    containers:
      - image: lfccncf/nginx:1.13.7
        imagePullPolicy: IfNotPresent
        name: nginx
        ports:
          - containerPort: 80
            protocol: TCP
        resources: {}
        terminationMessagePath: /dev/termination-log
        terminationMessagePolicy: File
    dnsPolicy: ClusterFirst
    restartPolicy: Always
    schedulerName: default-scheduler
    securityContext: {}
    terminationGracePeriodSeconds: 30
status:
  availableReplicas: 2
  conditions:
    - lastTransitionTime: "2022-09-24T04:26:41Z"
```

```
File Edit View Terminal Tabs Help
switched to context "k8s".
candidate@node-1:~$ kubectl create secret generic app-secret -n default --from-literal=key3=value1
secret/app-secret created
candidate@node-1:~$ kubectl get secrets
NAME          TYPE          DATA   AGE
app-secret    Opaque        1       4s
candidate@node-1:~$ kubectl run nginx-secret -n default --image=nginx:stable --dry-run=client -o yaml > sec.yaml
candidate@node-1:~$ vim sec.yaml
candidate@node-1:~$ kubectl create -f sec.yaml
pod/nginx-secret created
candidate@node-1:~$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
nginx-secret  1/1     Running   0           7s
candidate@node-1:~$ kubectl config use-context k8s
switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy web1 -n ckad00015
deployment.apps/web1 edited
candidate@node-1:~$ kubectl rollout status deploy web1 -n ckad00015
deployment "web1" successfully rolled out
candidate@node-1:~$ kubectl rollout undo deploy web1 -n ckad00015
deployment.apps/web1 rolled back
candidate@node-1:~$ kubectl rollout history deploy web1 -n ckad00015
deployment.apps/web1
REVISION  CHANGE-CAUSE
2         <none>
3         <none>

candidate@node-1:~$ kubectl get rs -n ckad00015
NAME          DESIRED   CURRENT   READY   AGE
web1-56f98bcb79  0         0         0       63s
web1-85775b6b79  2         2         2       6h53m
candidate@node-1:~$
```

**NEW QUESTION 3**

Exhibit:



Context

You sometimes need to observe a pod's logs, and write those logs to a file for further analysis. Task  
 Please complete the following;

- Deploy the counter pod to the cluster using the provided YAMLSpec file at /opt/KDOB00201/counter.yaml
- Retrieve all currently available application logs from the running pod and store them in the file /opt/KDOB00201/log\_Output.txt, which has already been created

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
student@node-1:~$ kubectl create -f /opt/KDOB00201/counter.yaml
pod/counter created
student@node-1:~$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
counter       1/1     Running   0           10s
liveness-http 1/1     Running   0           6h45m
nginx-101     1/1     Running   0           6h46m
nginx-configmap 1/1     Running   0           107s
nginx-secret  1/1     Running   0           7m21s
poller        1/1     Running   0           6h46m
student@node-1:~$ kubectl logs counter
1: 2b305101817ae25ca60ae46510fb6d11
2: 3648cf2eae95ab680dba8f195f891af4
3: 65c8bbd4dbf70bf81f2a0984a3a44ede
4: 40d3a9c8e46f5533bb4828fbc5c8d038
5: 390442d2530a90c3602901e3fe999ac8
6: b71d95187417e139effb33af77681040
7: 66a8e55a6491e756d2d0549ad6ab90a7
8: ff2b3d583b64125d2f9129c443bb37ff
9: b6c6a12b6e77944ed8baaf6c242dae4
10: bfcc9a894a0604fc4b814b37d0a200a4
student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt
student@node-1:~$
```

student@node-1:~\$ kubectl logs counter > /opt/KDOB00201/log\_output.txt  
student@node-1:~\$ cat /opt/KDOB00201/log\_output.txt  
1: 2b305101817ae25ca60ae46510fb6d11  
2: 3648cf2eae95ab680dba8f195f891af4  
3: 65c8bbd4dbf70bf81f2a0984a3a44ede  
4: 40d3a9c8e46f5533bb4828fbc5c8d038  
5: 390442d2530a90c3602901e3fe999ac8  
6: b71d95187417e139effb33af77681040  
7: 66a8e55a6491e756d2d0549ad6ab90a7  
8: ff2b3d583b64125d2f9129c443bb37ff  
9: b6c6a12b6e77944ed8baaf6c242dae4  
10: bfcc9a894a0604fc4b814b37d0a200a4  
11: 5493cd16a1790a5fb9512b0c9d4c5dd1  
12: 03f169e93e6143438e6dfe4ecb3cc9ed  
13: 764b37fe611373c42d0b47154041f6eb  
14: 1a56fbc1896b0ee6394136166281839e  
15: ecc492eb17715de090c47345a98d98d3  
16: 7974a6bec0fb44b6b8bbfc71aa3fbc74  
17: 9ae01bef01748b12cc9f97a5f9f72cd6  
18: 23fb22ee34d4272e4c9e005f1774515f  
19: ec7e1a5d314da9a0ad45d53be5a7acae  
20: 0bccdd8ee02cd42029e8162cd1c1197c  
21: d6851ea43546216b95bcb81ced997102  
22: 7ed9a38ea8bf0d86206569481442af44  
23: 29b8416ddc63dbfcb987ab3c8198e9fe  
24: 1f2062001df51a108ab25010f506716f  
student@node-1:~\$

**NEW QUESTION 4**

Exhibit:



Context

It is always useful to look at the resources your applications are consuming in a cluster. Task

- From the pods running in namespace cpu-stress , write the name only of the pod that is consuming the most CPU to file /opt/KDOBG030/pod.txt, which has already been created.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

```

Readme Web Terminal THE LINUX FOUNDATION
student@node-1:~$ kubectl top pods -n cpu-stress
NAME          CPU (cores)  MEMORY (bytes)
max-load-98b9se 68m          6Mi
max-load-ab2d3s 21m          6Mi
max-load-kipb9a 45m          6Mi
student@node-1:~$ echo "max-load-98b9se" > /opt/KDOB00301/pod.txt
    
```

NEW QUESTION 5

Exhibit:

```

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

A. Mastered  
 B. Not Mastered

Answer: A

Explanation:

Solution:

```

Readme Web Terminal THE LINUX FOUNDATION
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_
    
```

```

Readme Web Terminal THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-resources
  name: nginx-resources
  namespace: pod-resources
spec:
  containers:
  - image: nginx
    name: nginx-resources
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
"nginx_resources.yml" 16L, 289C 1,1 All
    
```

```

Readme Web Terminal THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
  labels:
    run: nginx-resources
    name: nginx-resources
    namespace: pod-resources
spec:
  containers:
  - image: nginx
    name: nginx-resources
    resources:
      requests:
        cpu: 200m
        memory: "1Gi"
-- INSERT -- 15,22 All

```

```

Readme Web Terminal THE LINUX FOUNDATION
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

```

```

Readme Web Terminal THE LINUX FOUNDATION
student@node-1:~$ kubectl get pods -n pod-resources
NAME          READY   STATUS    RESTARTS   AGE
nginx-resources 1/1     Running   0           8s
student@node-1:~$

```

**NEW QUESTION 6**

Exhibit:

No configuration context change is required for this task.

Task:

A Dockerfile has been prepared at `~/human-stork/build/Dockerfile`

Multiple image builders and tools have been pre-installed at the base system, including: `docker`, `skopeo`, `buildah`, `img`, and `podman`.

Please do not push the built image to a registry, run a container, or otherwise consume it.

- A. Mastered
- B. Not Mastered

**Answer: A**

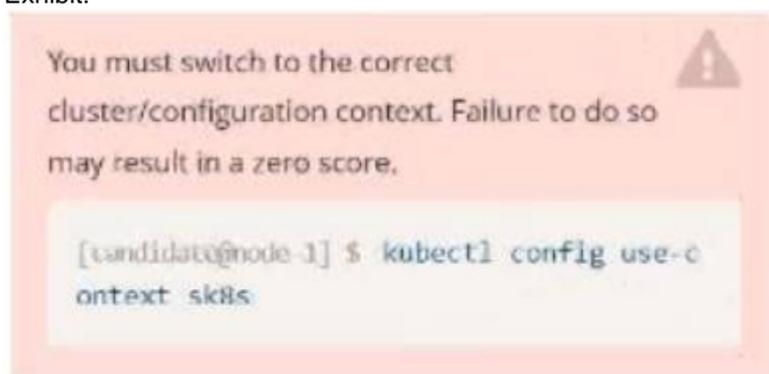
**Explanation:**

Solution:

```
candidate@node-1:~$ cd humane-stork/build/
candidate@node-1:~/humane-stork/build$ ls -l
total 16
-rw-r--r-- 1 candidate candidate 201 Sep 24 04:21 Dockerfile
-rw-r--r-- 1 candidate candidate 644 Sep 24 04:21 text1.html
-rw-r--r-- 1 candidate candidate 813 Sep 24 04:21 text2.html
-rw-r--r-- 1 candidate candidate 383 Sep 24 04:21 text3.html
candidate@node-1:~/humane-stork/build$ sudo docker build -t macaque:3.0 .
Sending build context to Docker daemon 6.144kB
Step 1/5 : FROM docker.io/lfccncf/nginx:mainline
--> ea335eea17ab
Step 2/5 : ADD text1.html /usr/share/nginx/html/
--> 8967ee9ee5d0
Step 3/5 : ADD text2.html /usr/share/nginx/html/
--> cb0554422f26
Step 4/5 : ADD text3.html /usr/share/nginx/html/
--> 62e879ab821e
Step 5/5 : COPY text2.html /usr/share/nginx/html/index.html
--> 331c8a94372c
Successfully built 331c8a94372c
Successfully tagged macaque:3.0
candidate@node-1:~/humane-stork/build$ sudo docker save macaque:3.0 > ~/humane-stork/macaque-3.0.tar
candidate@node-1:~/humane-stork/build$ cd ..
candidate@node-1:~/humane-stork$ ls -l
total 142532
drwxr-xr-x 2 candidate candidate 4096 Sep 24 04:21 build
-rw-rw-r-- 1 candidate candidate 145948672 Sep 24 11:39 macaque-3.0.tar
candidate@node-1:~/humane-stork$
```

### NEW QUESTION 7

Exhibit:



Task

A Deployment named backend-deployment in namespace staging runs a web application on port 8081.

*The Deployment's manifest files can be found at  
~/spicy-pikachu/backend-deployment.yaml.*

Modify the Deployment specifying a readiness probe  
using path /healthz.

Set initialDelaySeconds to 8 and periodSeconds to 5.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
File Edit View Terminal Tabs Help
Warning: Permanently added '172.31.17.21' (ECDSA) to the list of known hosts.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

candidate@node-1:~$ vi ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl config use-context sk8s
Switched to context "sk8s".
candidate@node-1:~$ vim .vimrc
candidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
```

Text Description automatically generated

```

File Edit View Terminal Tabs Help
apiVersion: apps/v1
kind: Deployment
metadata:
  name: backend-deployment
  namespace: staging
spec:
  selector:
    matchLabels:
      app: nginx
  replicas: 3
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
        - name: nginx
          image: nginx:1.14.2
          ports:
            - containerPort: 8081
          readinessProbe:
            initialDelaySeconds: 8
            periodSeconds: 5
            httpGet:
              path: /healthz
              port: 8081
          volumeMounts:
            - mountPath: /etc/nginx/conf.d/
              name: config
            - mountPath: /usr/share/nginx/html/
              name: www
-- INSERT --
26.28 Top

File Edit View Terminal Tabs Help
Warning: Permanently added '172.31.17.21' (ECDSA) to the list of known hosts.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

candidate@node-1:~$ vi ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl config use-context sk8s
Switched to context "sk8s".
candidate@node-1:~$ vim .vimrc
candidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl apply -f ~/spicy-pikachu/backend-deployment.yaml
deployment.apps/backend-deployment configured
candidate@node-1:~$ kubectl get pods -n staging
NAME                                READY   STATUS    RESTARTS   AGE
backend-deployment-59d449b99d-cxct6  1/1     Running   0           29s
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

```

**NEW QUESTION 8**

Exhibit:



Context

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

Task

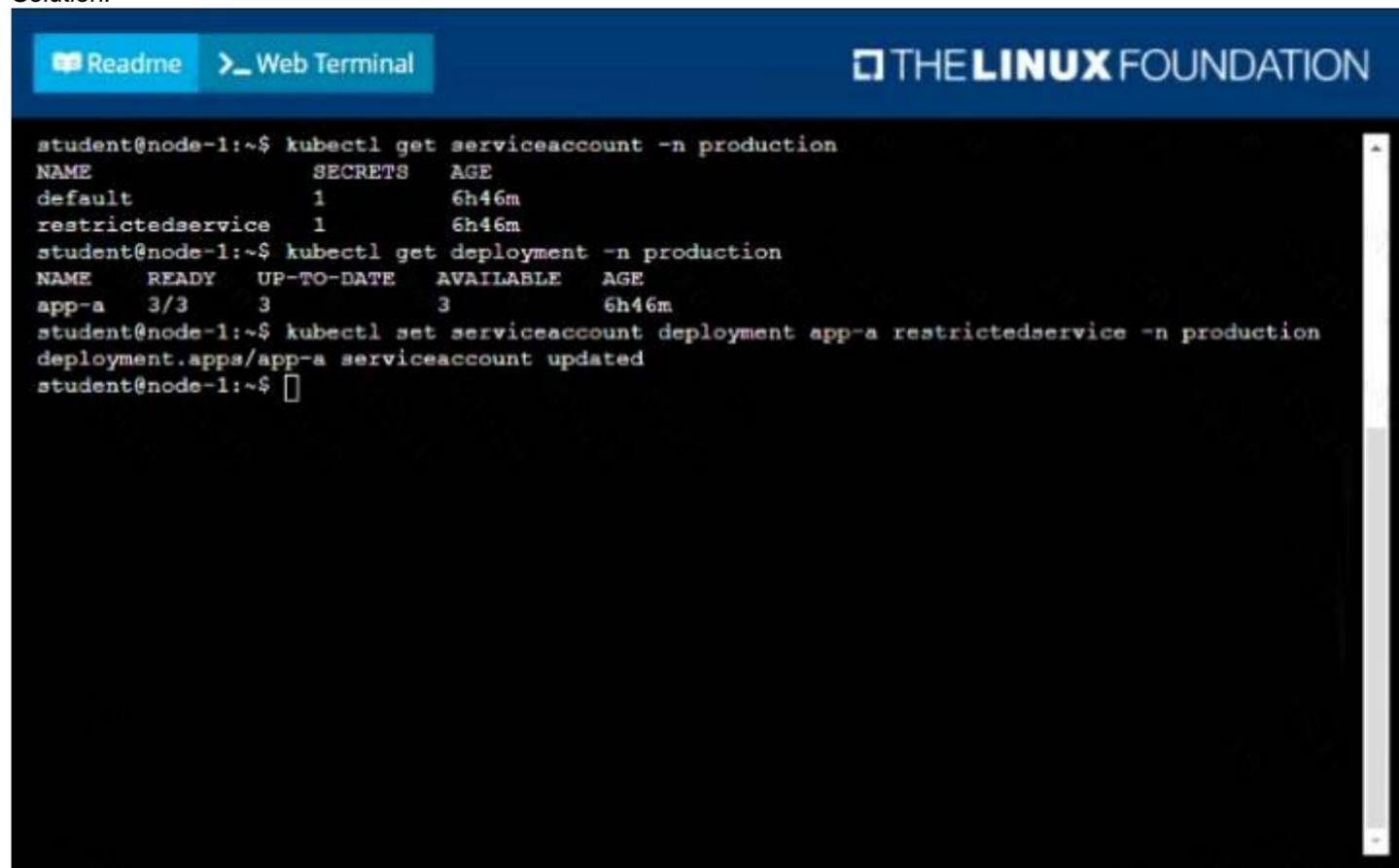
Update the app-a deployment in the production namespace to run as the restrictedservice service account. The service account has already been created.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Solution:

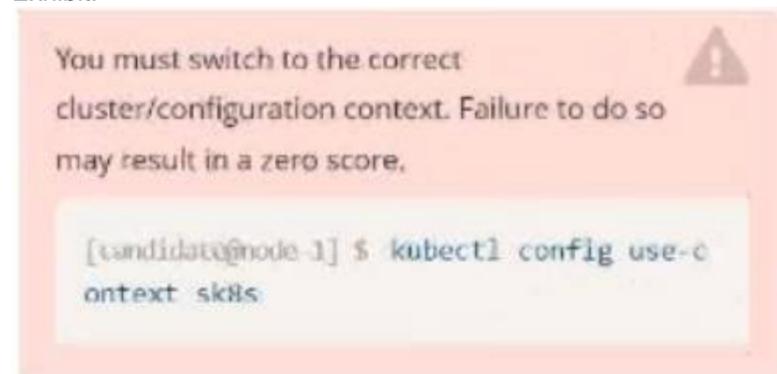


The screenshot shows a web terminal interface with a blue header containing 'Readme' and 'Web Terminal' buttons, and 'THE LINUX FOUNDATION' logo. The terminal output is as follows:

```
student@node-1:~$ kubectl get serviceaccount -n production
NAME          SECRETS  AGE
default       1        6h46m
restrictedservice 1        6h46m
student@node-1:~$ kubectl get deployment -n production
NAME    READY   UP-TO-DATE   AVAILABLE   AGE
app-a   3/3     3            3           6h46m
student@node-1:~$ kubectl set serviceaccount deployment app-a restrictedservice -n production
deployment.apps/app-a serviceaccount updated
student@node-1:~$
```

**NEW QUESTION 9**

Exhibit:



Task:

A pod within the Deployment named buffalo-deployment and in namespace gorilla is logging errors.

1) Look at the logs identify errors messages.

Find errors, including User "system:serviceaccount:gorilla:default" cannot list resource "deployment" [...] in the namespace "gorilla"

The buffalo-deployment 'S manifest can be found at `-/prompt/escargot/buffalo-deployment.yaml`

- A. Mastered
- B. Not Mastered

**Answer:** A**Explanation:**

Solution:

Text Description automatically generated

```

File Edit View Terminal Tabs Help
deployment.apps/backend-deployment configured
candidate@node-1:~$ kubectl get pods -n staging
NAME                                READY   STATUS    RESTARTS   AGE
backend-deployment-59d449b99d-cxct6  1/1     Running   0           20s
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:~$

```

**NEW QUESTION 10**

Exhibit:



Context

You have been tasked with scaling an existing deployment for availability, and creating a service to expose the deployment within your infrastructure.

Task

Start with the deployment named kdsn00101-deployment which has already been deployed to the namespace kdsn00101 . Edit it to:

- Add the func=webFrontEnd key/value label to the pod template metadata to identify the pod for the service definition
- Have 4 replicas

Next, create ana deploy in namespace kdsn00101 a service that accomplishes the following:

- Exposes the service on TCP port 8080
- is mapped to me pods defined by the specification of kdsn00101-deployment
- Is of type NodePort
- Has a name of cherry

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```

student@node-1:~$ kubectl edit deployment kdsn00101-deployment -n kdsn00101

```

```

Readme Web Terminal THE LINUX FOUNDATION

Please edit the object below. Lines beginning with a '#' will be ignored,
# and an empty file will abort the edit. If an error occurs while saving this file will be
# reopened with the relevant failures.
#
apiVersion: apps/v1
kind: Deployment
metadata:
  annotations:
    deployment.kubernetes.io/revision: "1"
  creationTimestamp: "2020-10-09T08:50:39Z"
  generation: 1
  labels:
    app: nginx
  name: kdsn00101-deployment
  namespace: kdsn00101
  resourceVersion: "4786"
  selfLink: /apis/apps/v1/namespaces/kdsn00101/deployments/kdsn00101-deployment
  uid: 8d3ace00-7761-4189-ba10-fbc676c311bf
spec:
  progressDeadlineSeconds: 600
  replicas: 1
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
"/tmp/kubect1-edit-d4y5r.yaml" 70L, 1957C 1,1 Top

```

```

Readme Web Terminal THE LINUX FOUNDATION

uid: 8d3ace00-7761-4189-ba10-fbc676c311bf
spec:
  progressDeadlineSeconds: 600
  replicas: 4
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
    rollingUpdate:
      maxSurge: 25%
      maxUnavailable: 25%
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: nginx
        func: webFrontEnd
    spec:
      containers:
      - image: nginx:latest
        imagePullPolicy: Always
        name: nginx
        ports:
        - containerPort: 80

student@node-1:~$ kubectl edit deployment kdsn00101-deployment -n kdsn00101
deployment.apps/kdsn00101-deployment edited
student@node-1:~$ kubectl get deployment kdsn00101-deployment -n kdsn00101
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
kdsn00101-deployment  4/4     4            4           7h17m
student@node-1:~$ kubectl expose deployment kdsn00101-deployment -n kdsn00101 --type NodePort --
port 8080 --name cherry
service/cherry exposed

```

**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/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: lfccncf/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: 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 13

.....

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