# CKAD Q&As

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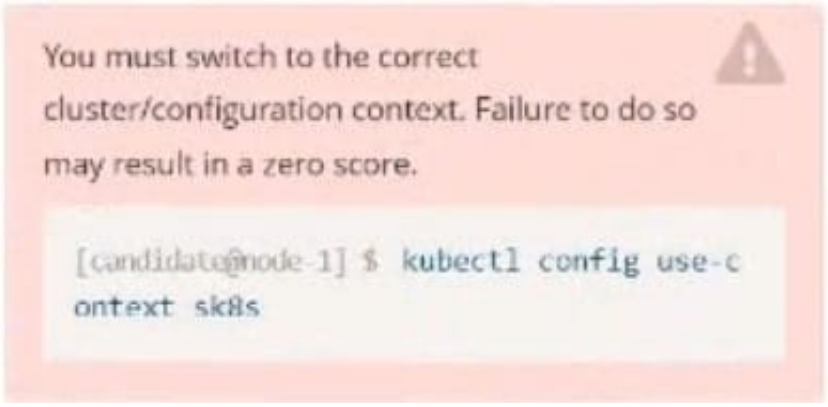
**QUESTION 1**

CORRECT TEXT

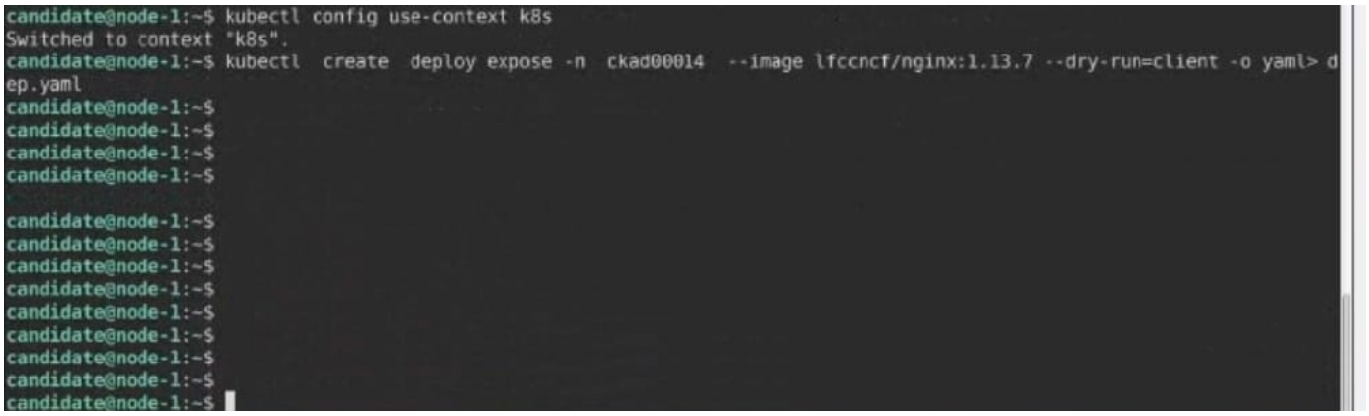


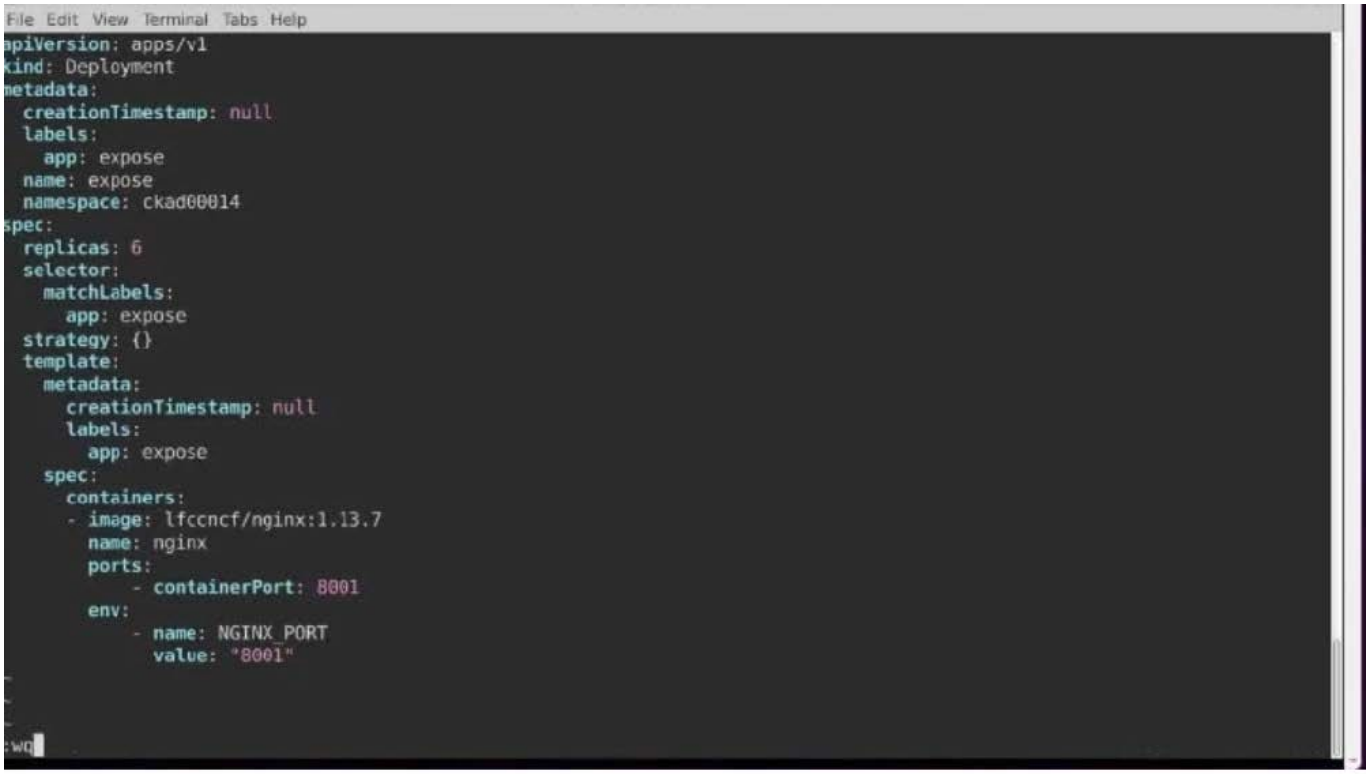

Task: Create a Deployment named expose in the existing ckad00014 namespace running 6 replicas of a Pod. Specify a single container using the ifccncf/nginx: 1.13.7 image Add an environment variable named NGINX_PORT with the value 8001 to the container then expose port 8001

A. Please check explanations

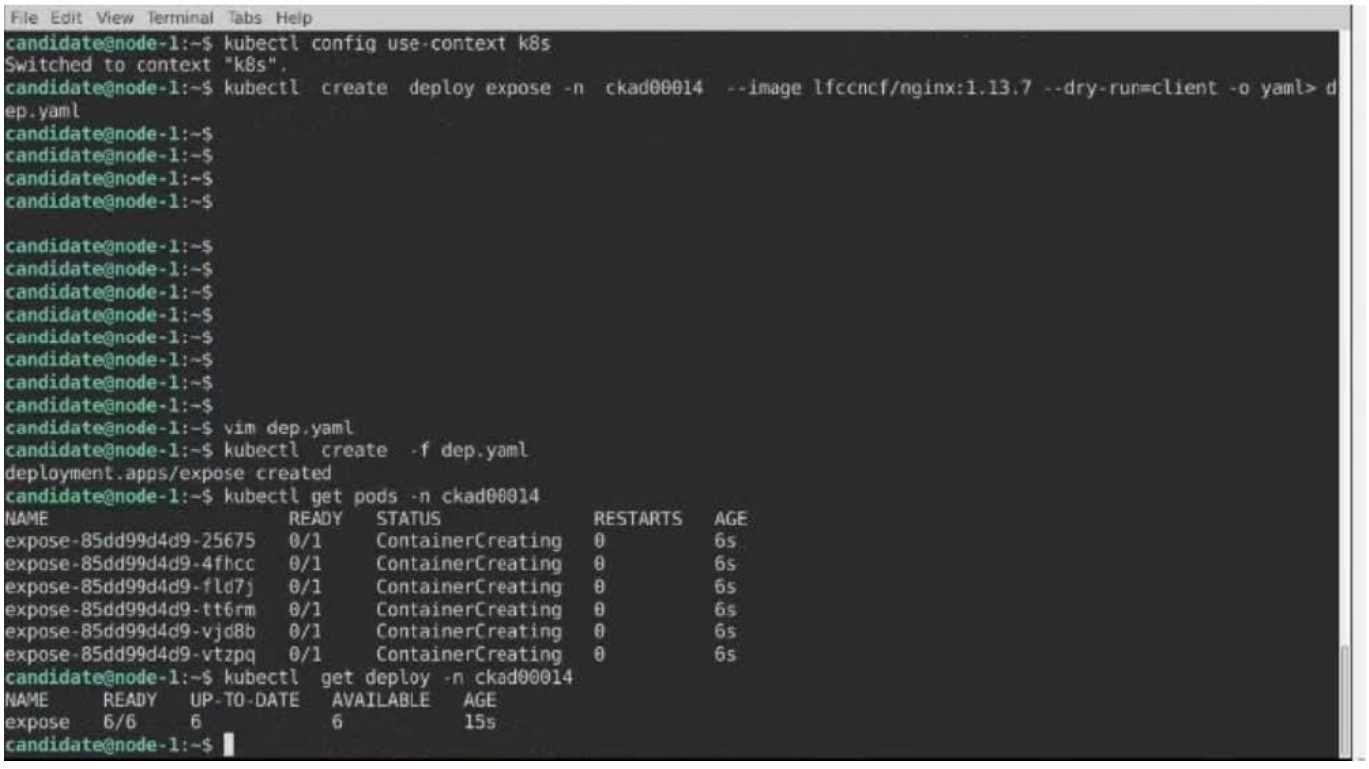
B. Place Holder

Correct Answer: A





```
File  Edit  View  Terminal  Tabs  Help
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: expose
  name: expose
  namespace: ckad00014
spec:
  replicas: 6
  selector:
    matchLabels:
      app: expose
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: expose
    spec:
      containers:
      - image: lfccncf/nginx:1.13.7
        name: nginx
        ports:
          - containerPort: 8001
        env:
          - name: NGINX_PORT
            value: "8001"
~
~
:wq
```



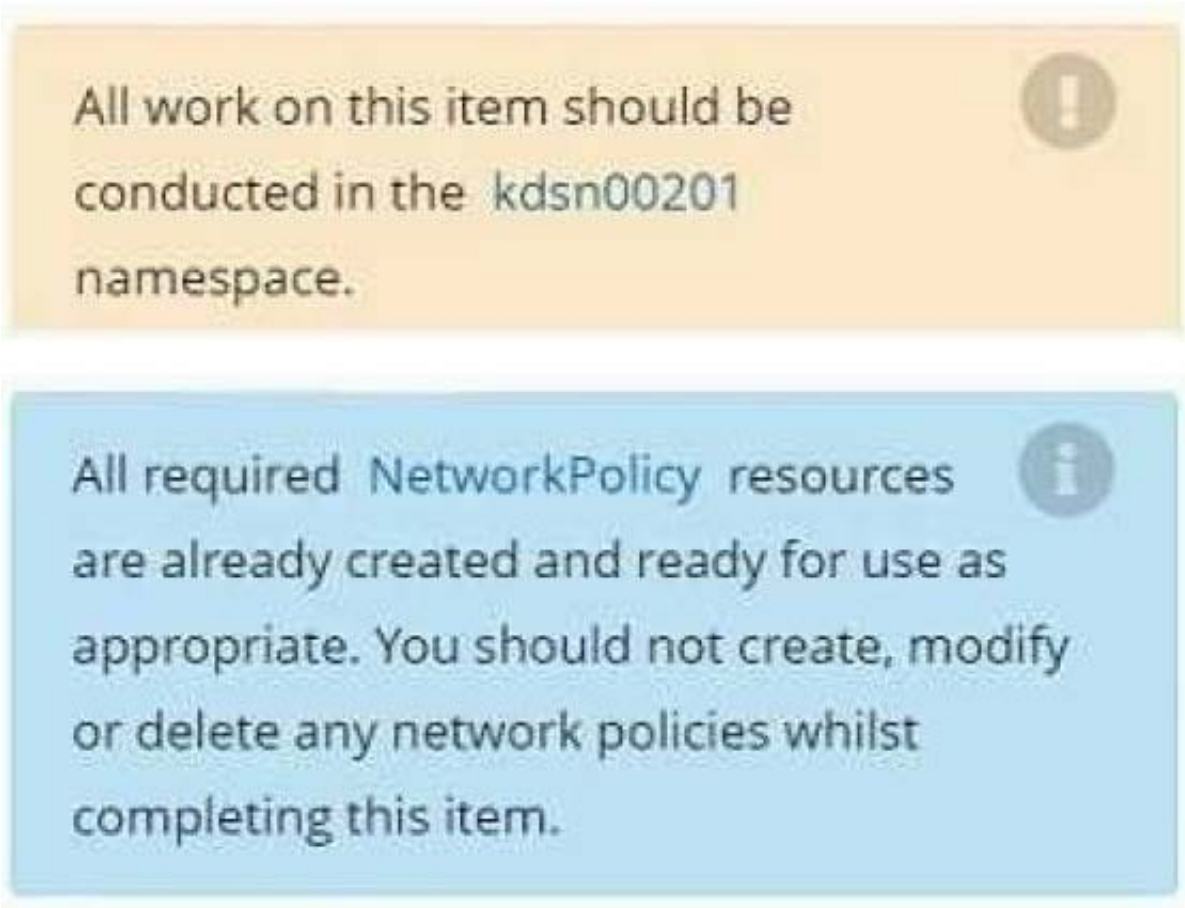
```
File  Edit  View  Terminal  Tabs  Help
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl  create  deploy expose -n  ckad00014  --image lfccncf/nginx:1.13.7 --dry-run=client -o yaml> d
ep.yaml
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$

candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$ vim dep.yaml
candidate@node-1:~$ kubectl  create  -f dep.yaml
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-fld7j   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:~$
```

**QUESTION 2**

CORRECT TEXT


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. Please check explanations

B. Place Holder

Correct Answer: A

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

**QUESTION 3**

CORRECT TEXT


Context You are tasked to create a secret and consume the secret in a pod using environment variables as follow: Task

1.

Create a secret named another-secret with a key/value pair; key1/value4

2.

Start an nginx pod named nginx-secret using container image nginx, and add an environment variable exposing the value of the secret key key1, using COOL_VARIABLE as the name for the environment variable inside the pod

A. Please check explanations

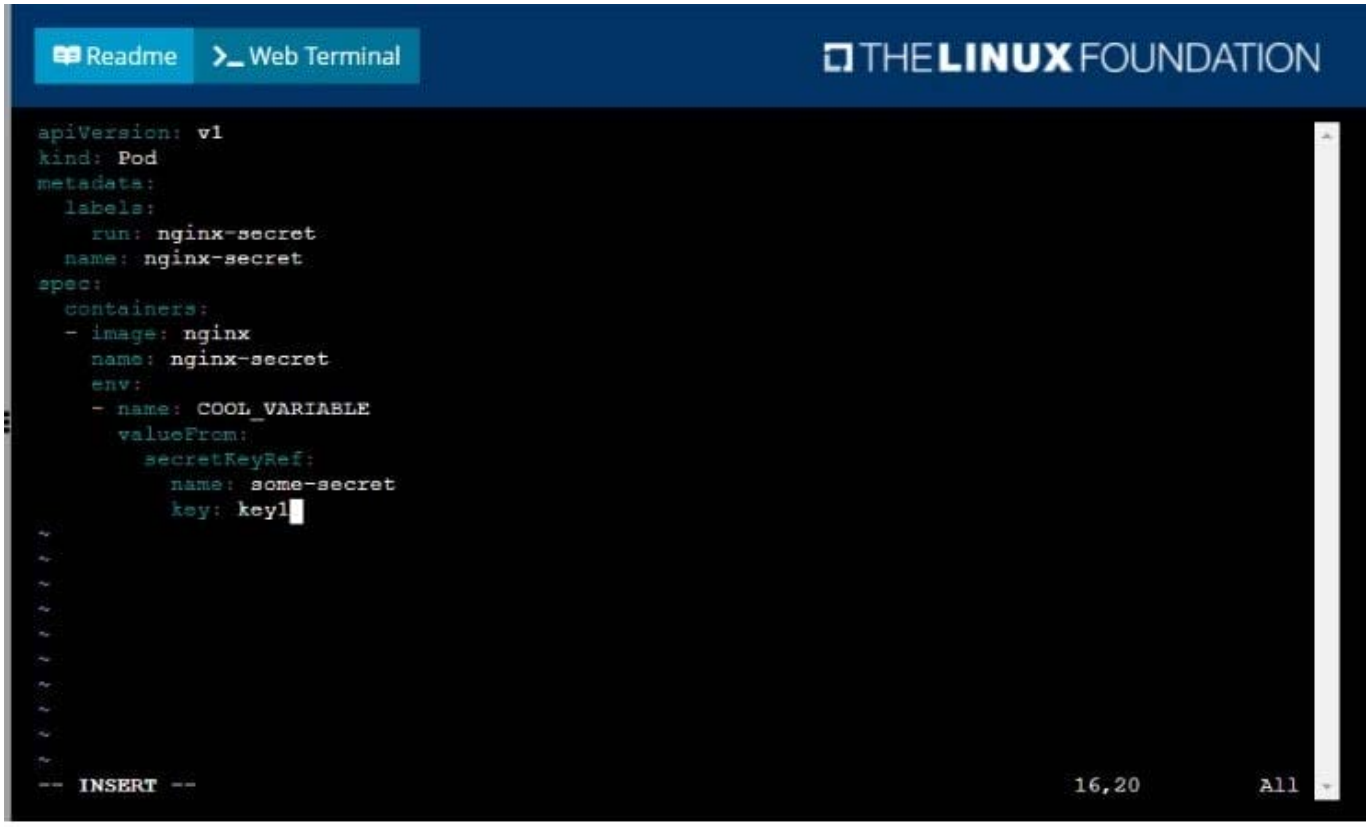
B. Place Holder

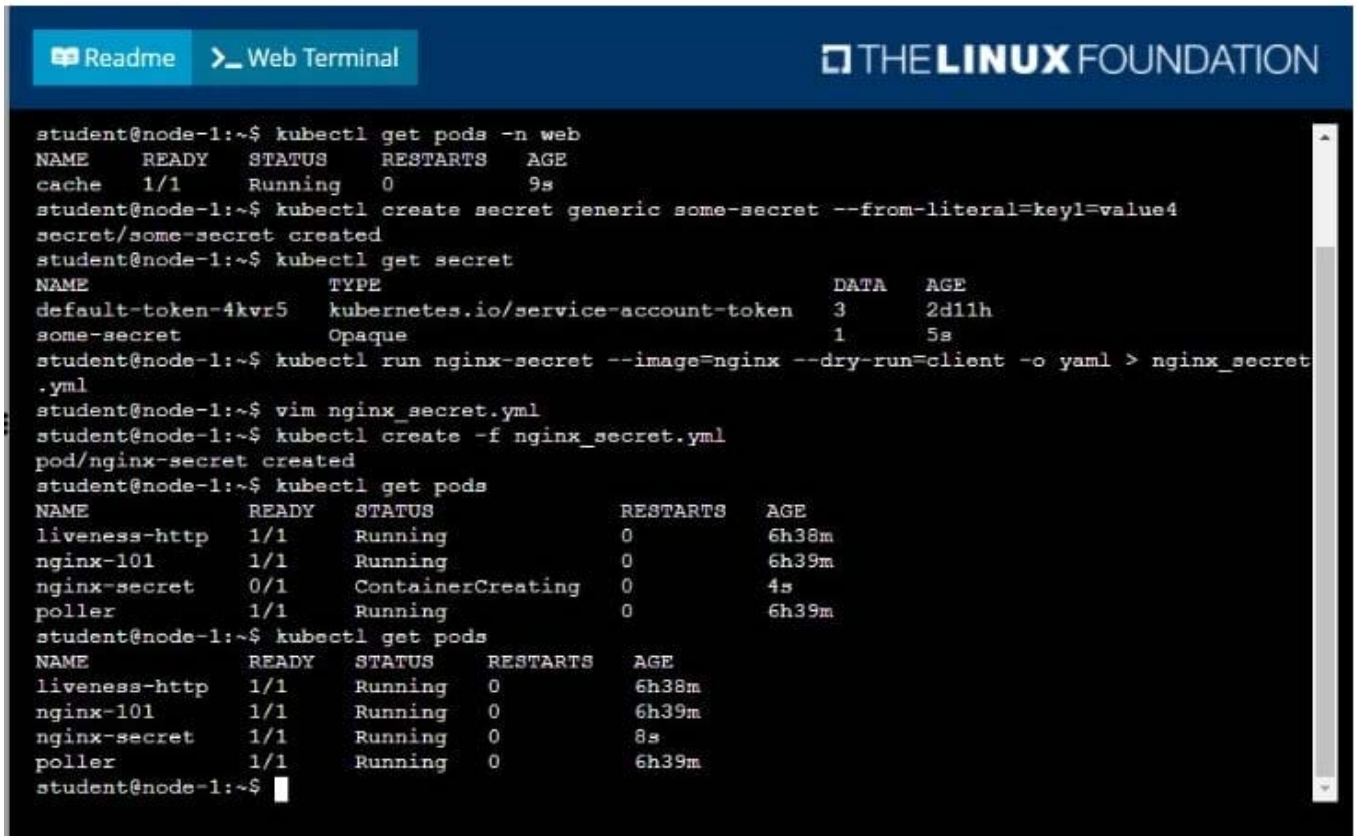
Correct Answer: A

```
student@node-1:~$ kubectl create secret generic some-secret --from-literal=key1=value4
secret/some-secret created
student@node-1:~$ kubectl get secret
NAME                  TYPE                                  DATA   AGE
default-token-4kvr5   kubernetes.io/service-account-token   3      2d11h
some-secret           Opaque                                1      5s
student@node-1:~$ kubectl run nginx-secret --image=nginx --dry-run=client -o yaml > nginx_secret
.yml
student@node-1:~$ vim nginx_secret.yml
```

Readme | Web Terminal — THE LINUX FOUNDATION

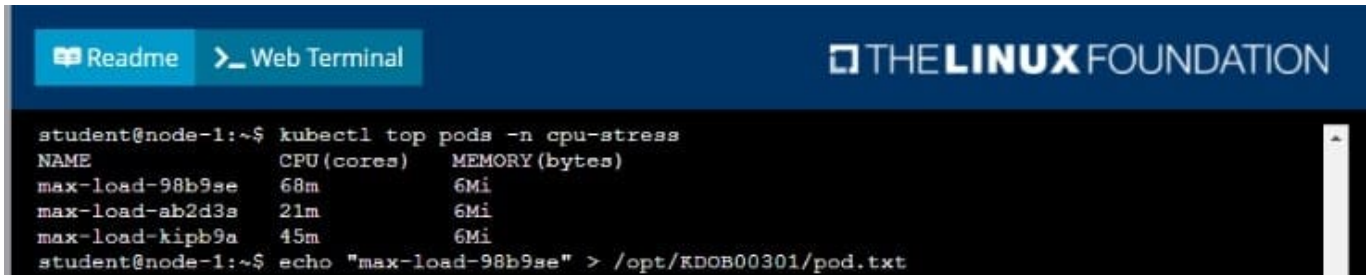
```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-secret
  name: nginx-secret
spec:
  containers:
  - image: nginx
    name: nginx-secret
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
~
~
~
~
~
~
~
~
~
~
~
"nginx_secret.yml" 15L, 253C                                  1,1           All
```

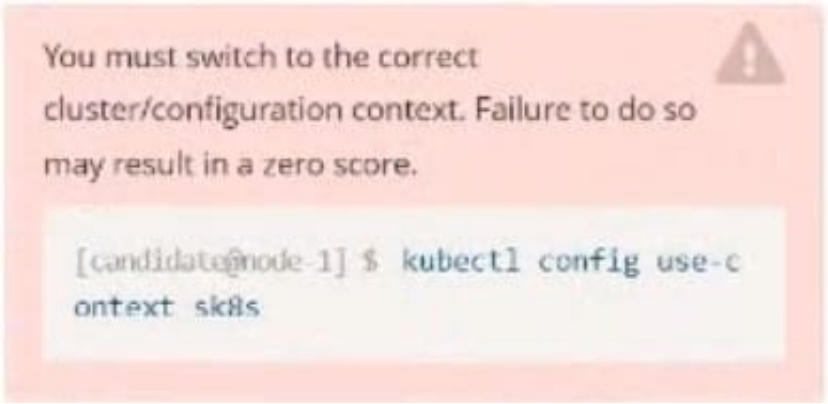

Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
labels:
run: nginx-secret
name: nginx-secret
spec:
containers:
- image: nginx
name: nginx-secret
env:
- name: COOL_VARIABLE
valueFrom:
secretKeyRef:
name: some-secret
key: key1
-- INSERT --
16,20
All


Readme
Web Terminal
THE LINUX FOUNDATION
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=key1=value4
secret/some-secret created
student@node-1:~$ kubectl get secret
NAME TYPE DATA AGE
default-token-4kvr5 kubernetes.io/service-account-token 3 2d11h
some-secret Opaque 1 5s
student@node-1:~$ kubectl run nginx-secret --image=nginx --dry-run=client -o yaml > nginx_secret
.yml
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 AGE
liveness-http 1/1 Running 0 6h38m
nginx-101 1/1 Running 0 6h39m
nginx-secret 0/1 ContainerCreating 0 4s
poller 1/1 Running 0 6h39m
student@node-1:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
liveness-http 1/1 Running 0 6h38m
nginx-101 1/1 Running 0 6h39m
nginx-secret 1/1 Running 0 8s
poller 1/1 Running 0 6h39m
student@node-1:~$

**QUESTION 4**

CORRECT TEXT




Task:

Update the Deployment app-1 in the frontend namespace to use the existing ServiceAccount app.

A. Please check explanations

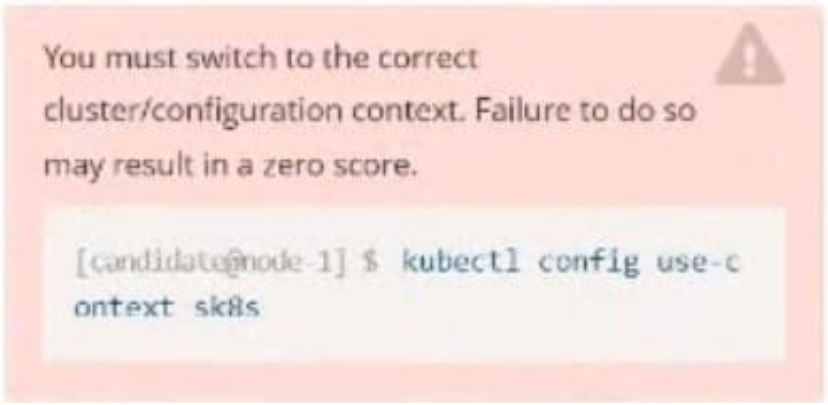
B. Place Holder

Correct Answer: A

```
File  Edit  View  Terminal  Tabs  Help
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          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:~$
```

**QUESTION 5**

CORRECT TEXT




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 Ifconf/nginx container image.

3.

Perform a rollback of the web1 Deployment to its previous version

A. Please check explanations

B. Place Holder

Correct Answer: A

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl  edit deploy web1 -n ckad00015
```

```
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:~$
```

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