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QUESTION 1

CORRECT TEXT

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.

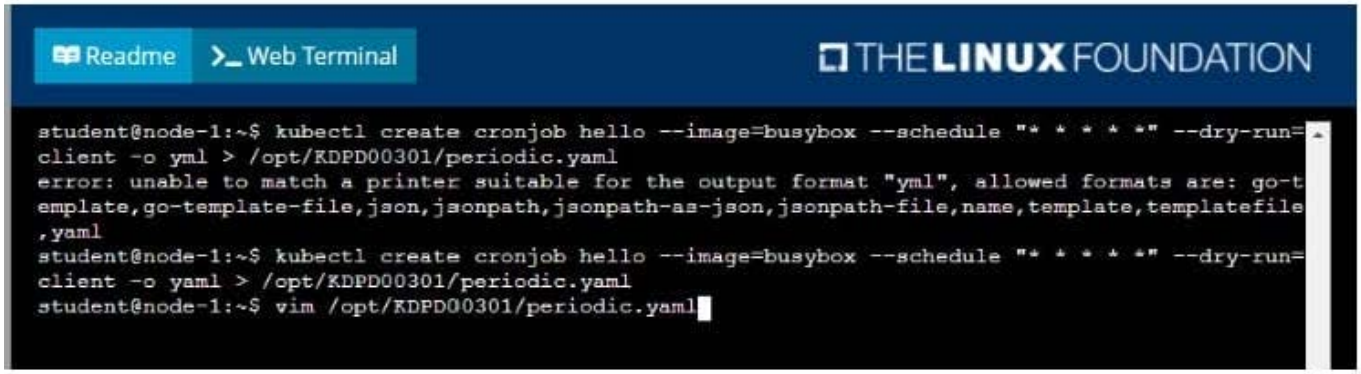
The command should run every minute and must complete within 22 seconds or be terminated oy Kubernetes. The Cronjob name and container name should both be hello

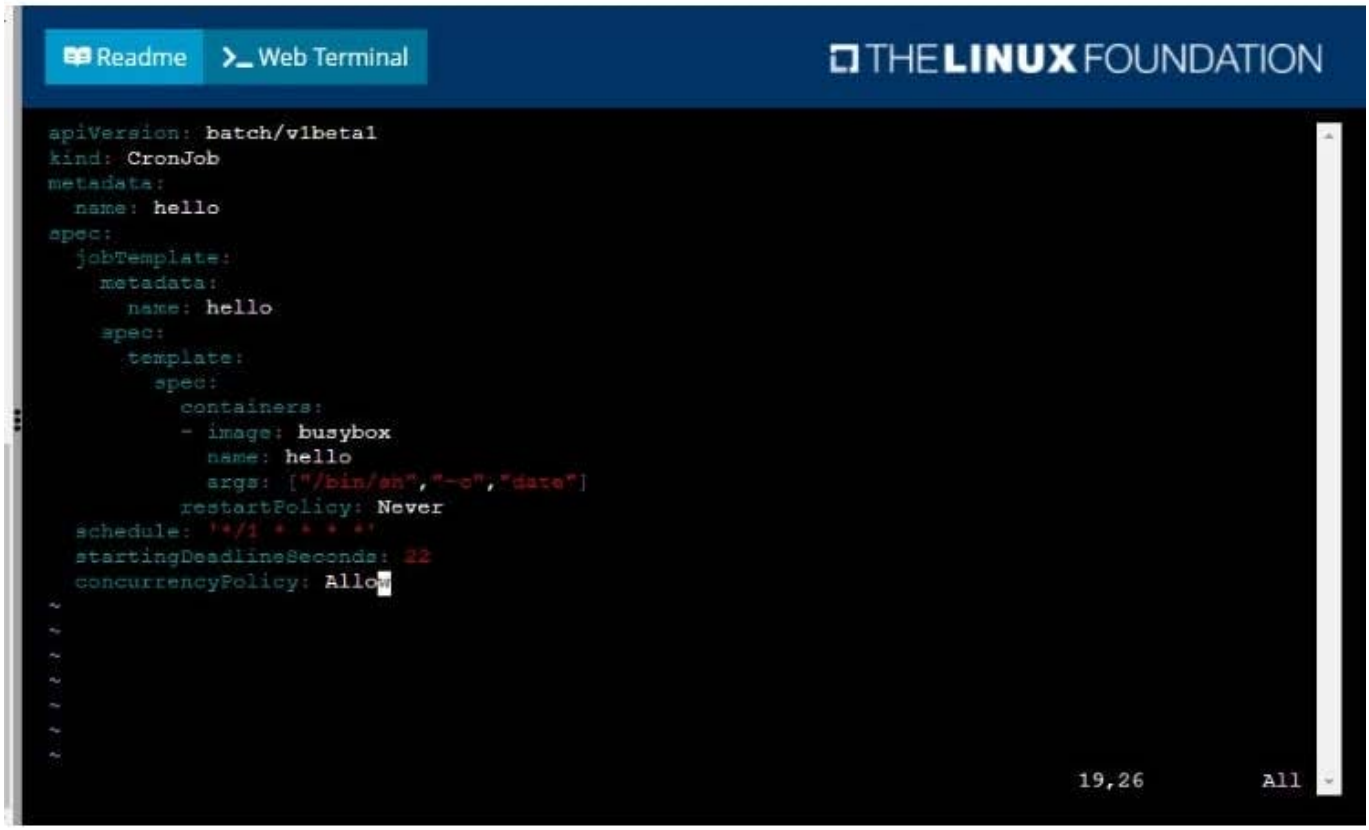
Create the resource in the above manifest and verify that the job executes successfully at least once

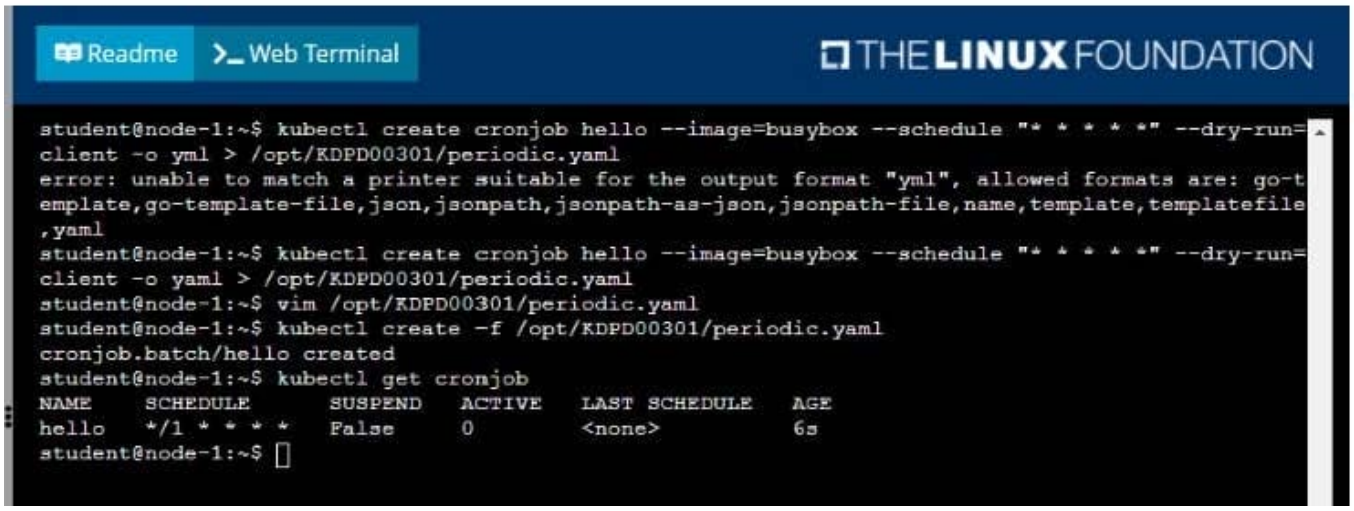
A. Please check explanations

B. Place Holder

Correct Answer: A


Readme
Web Terminal
THE LINUX FOUNDATION
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=client -o yml > /opt/KDPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yml", allowed formats are: go-template,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


Readme
Web Terminal
THE LINUX FOUNDATION
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: '*/1 * * * *'
startingDeadlineSeconds: 22
concurrencyPolicy: Allow
19,26 All


Readme
Web Terminal
THE LINUX FOUNDATION
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=client -o yml > /opt/KDPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yml", allowed formats are: go-template,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:~$

QUESTION 2

CORRECT TEXT

Task

Create a new deployment for running.nginx with the following parameters:

1.

Run the deployment in the kdpd00201 namespace. The namespace has already been created

2.

Name the deployment frontend and configure with 4 replicas

3.

Configure the pod with a container image of lfccncf/nginx:1.13.7

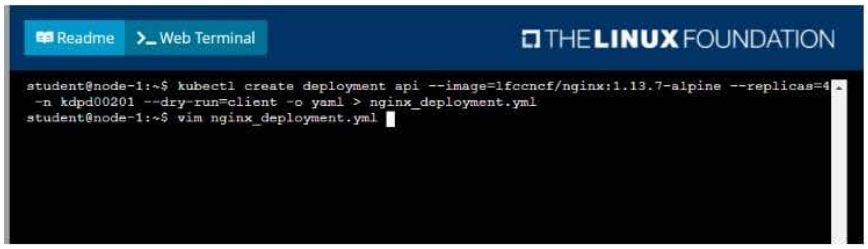
4.

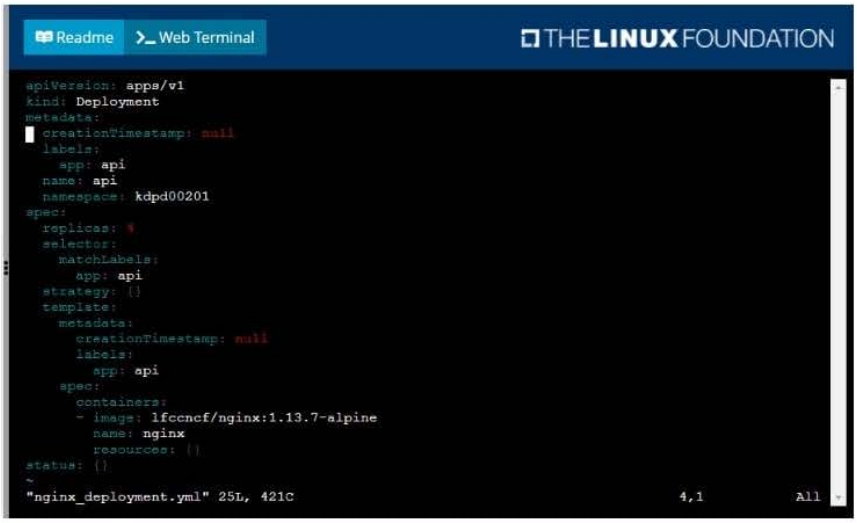
Set an environment variable of NGINX__PORT=8080 and also expose that port for the container above

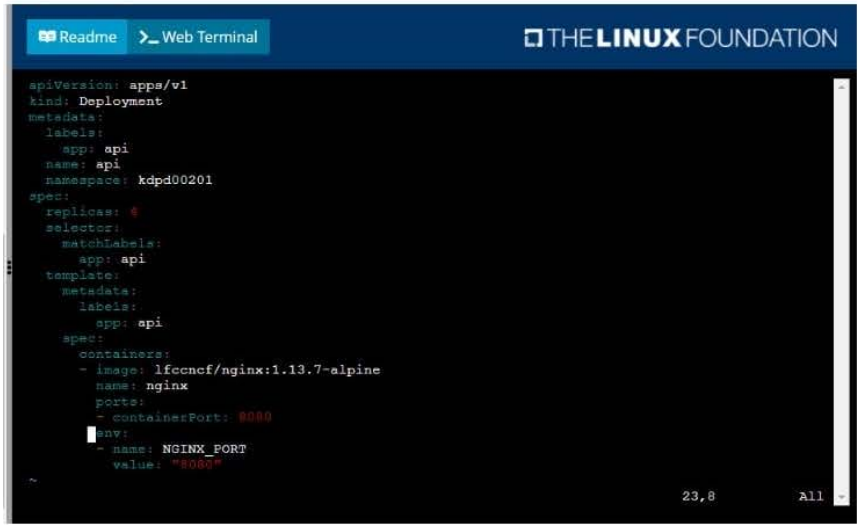
A. Please check explanations

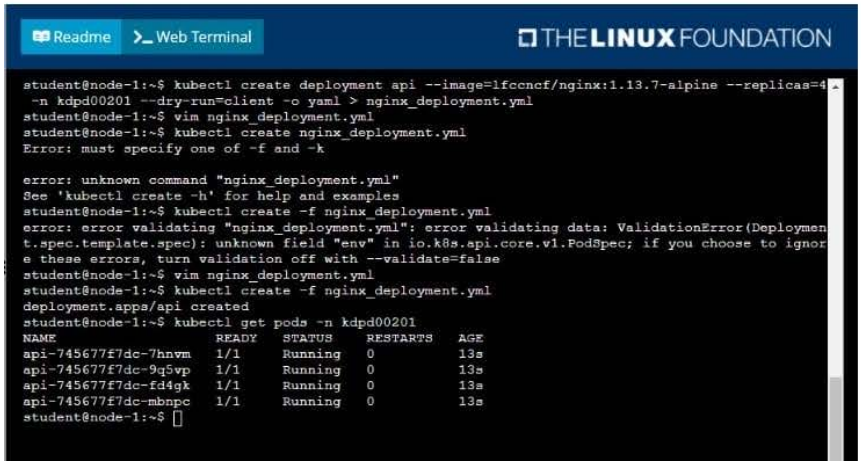
B. Place Holder

Correct Answer: A


Readme
Web Terminal
THE LINUX FOUNDATION
student@node-1:~$ kubectl create deployment api --image=lfccncf/nginx:1.13.7-alpine --replicas=4
-n kdpd00201 --dry-run=client -o yaml > nginx_deployment.yml
student@node-1:~$ vim nginx_deployment.yml


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: apps/v1
kind: Deployment
metadata:
creationTimestamp: null
labels:
app: api
name: api
namespace: kdpd00201
spec:
replicas: 4
selector:
matchLabels:
app: api
strategy: {}
template:
metadata:
creationTimestamp: null
labels:
app: api
spec:
containers:
- image: lfccncf/nginx:1.13.7-alpine
name: nginx
resources: {}
status: {}
~
"nginx_deployment.yml" 25L, 421C
4,1
All


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: lfccncf/nginx:1.13.7-alpine
name: nginx
ports:
- containerPort: 8080
env:
- name: NGINX_PORT
value: "8080"
~
23,8
All


Readme
Web Terminal
THE LINUX FOUNDATION
student@node-1:~$ kubectl create deployment api --image=lfccncf/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-7hnvm 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:~$

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

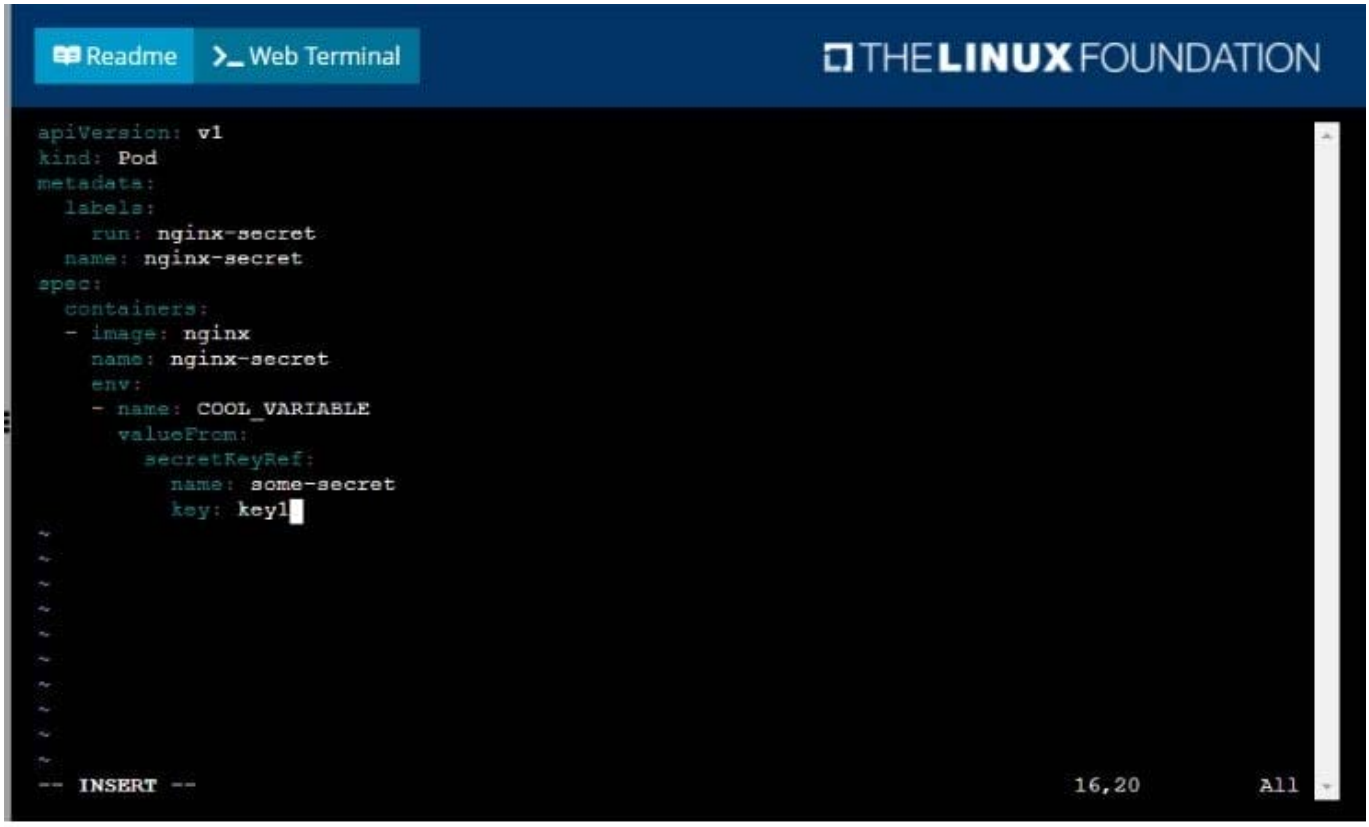
B. Place Holder

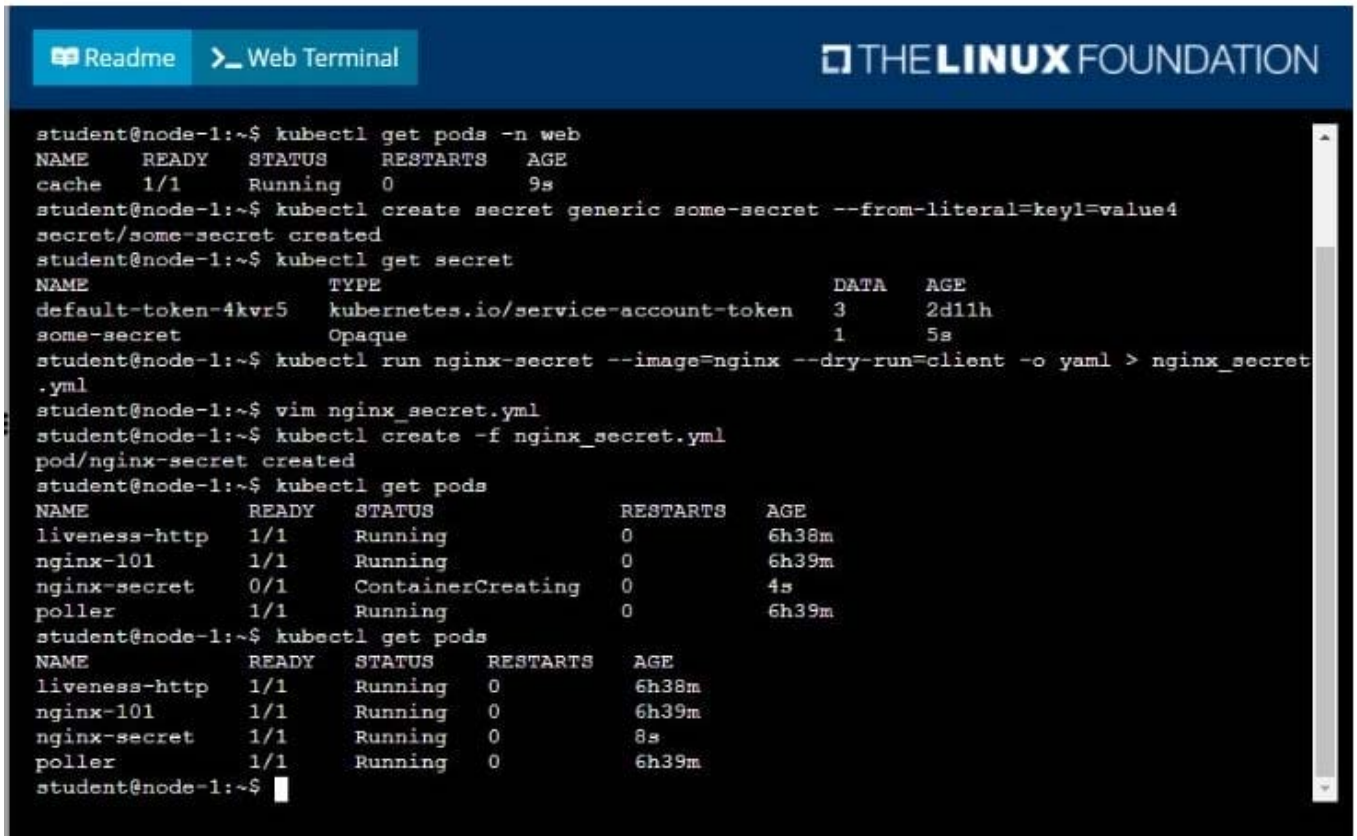
Correct Answer: A

```
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

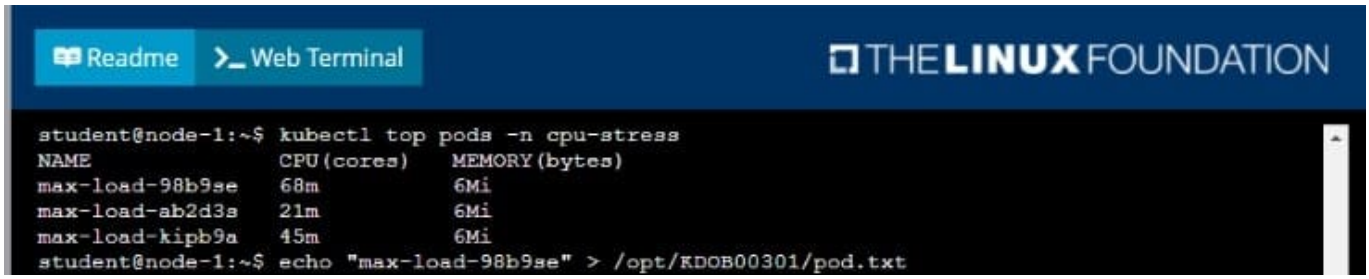
```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-secret
  name: nginx-secret
spec:
  containers:
  - image: nginx
    name: nginx-secret
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
~
~
~
~
~
~
~
~
~
~
~
"nginx_secret.yml" 15L,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

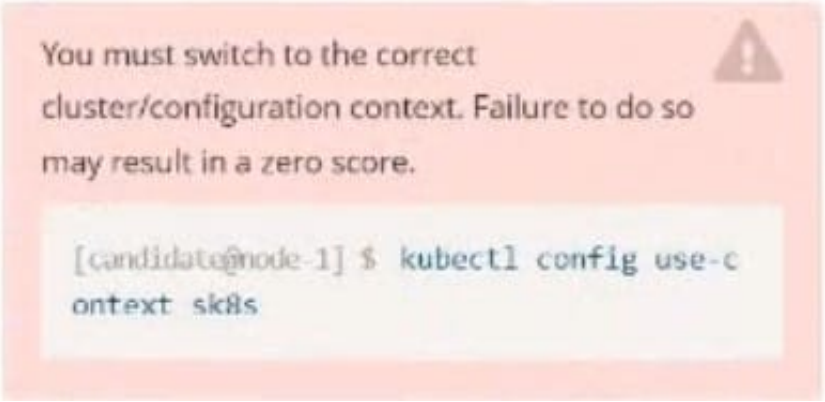

Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
labels:
run: nginx-secret
name: nginx-secret
spec:
containers:
- image: nginx
name: nginx-secret
env:
- name: COOL_VARIABLE
valueFrom:
secretKeyRef:
name: some-secret
key: key1
-- INSERT --
16,20
All


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





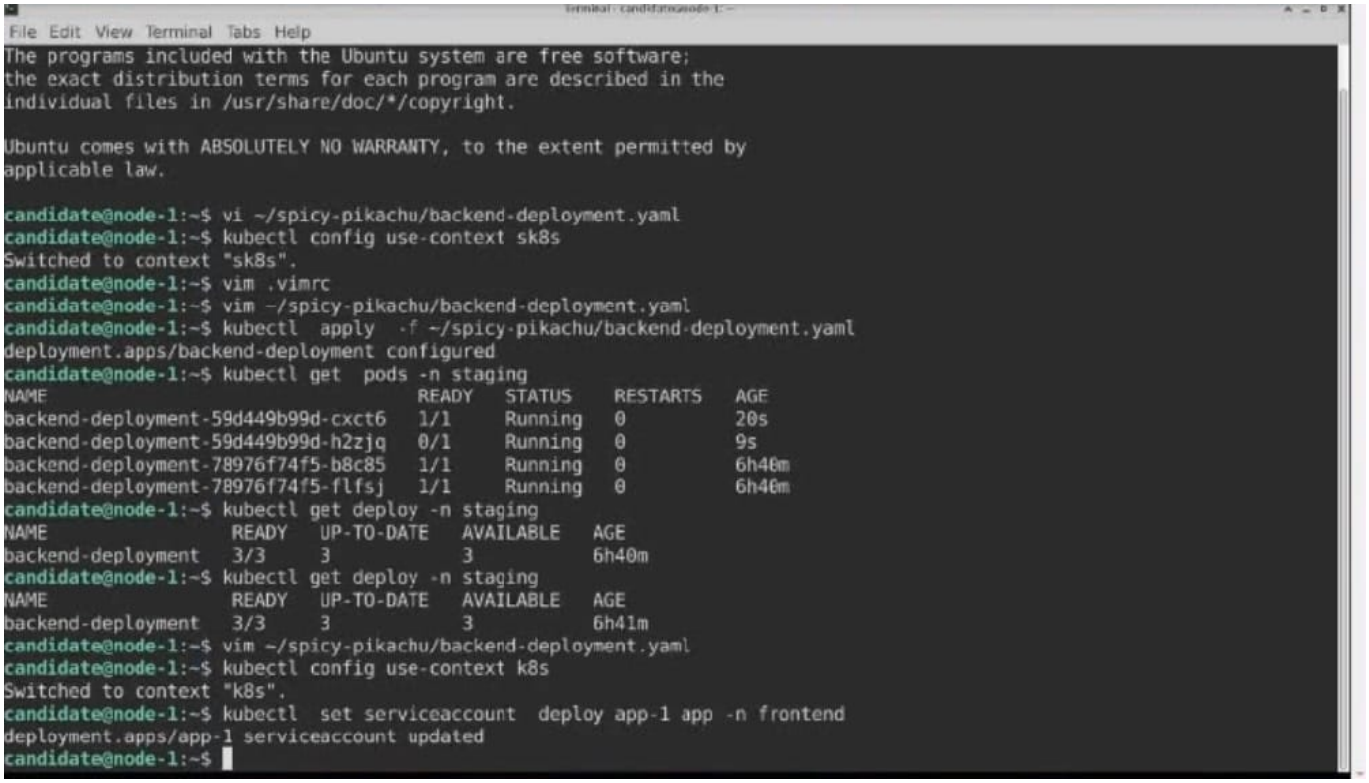
Task:

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

A. Please check explanations

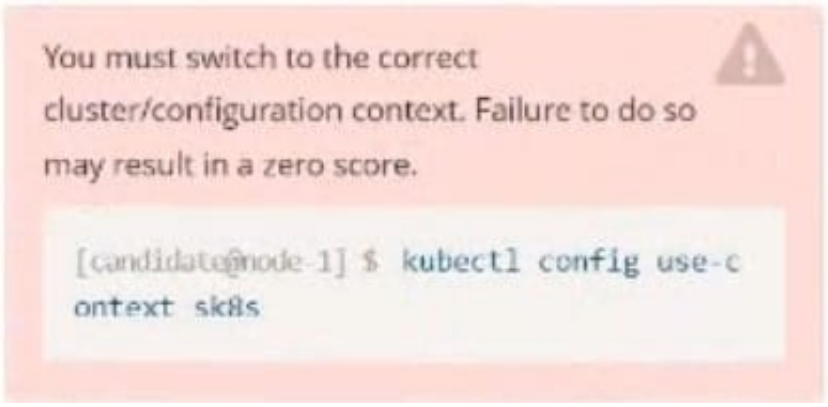
B. Place Holder

Correct Answer: A



QUESTION 5

CORRECT TEXT

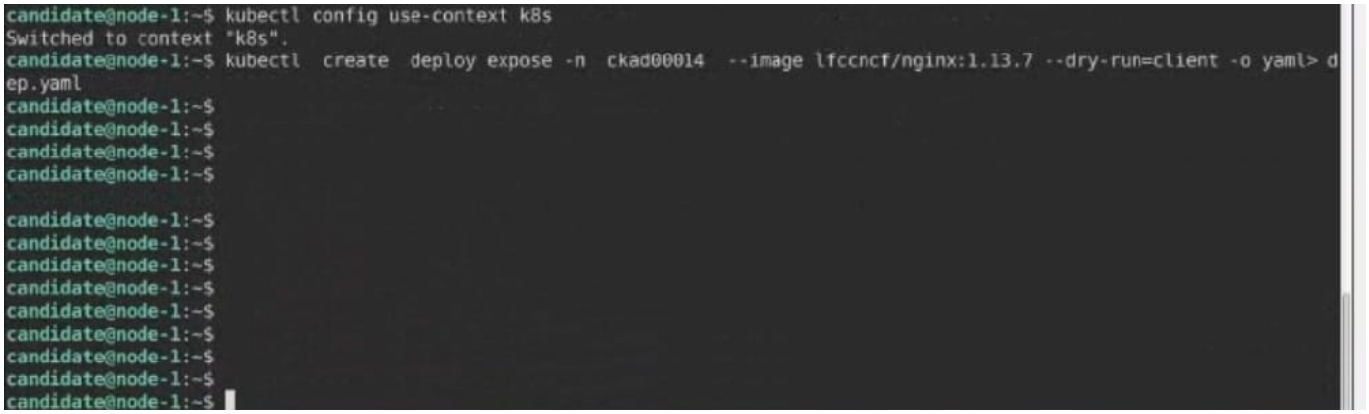


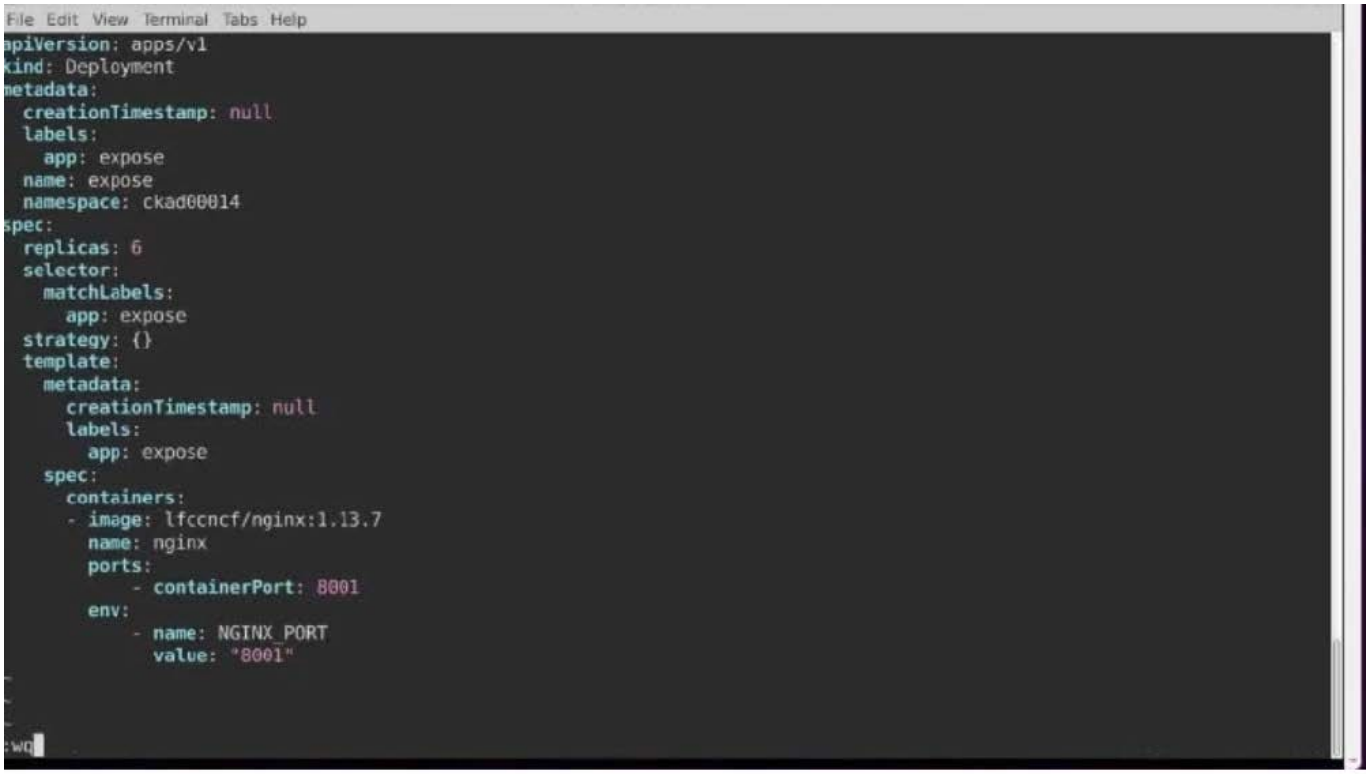
Task: Create a Deployment named expose in the existing ckad00014 namespace running 6 replicas of a Pod. Specify a single container using the ifccncf/nginx: 1.13.7 image Add an environment variable named NGINX_PORT with the value 8001 to the container then expose port 8001

A. Please check explanations

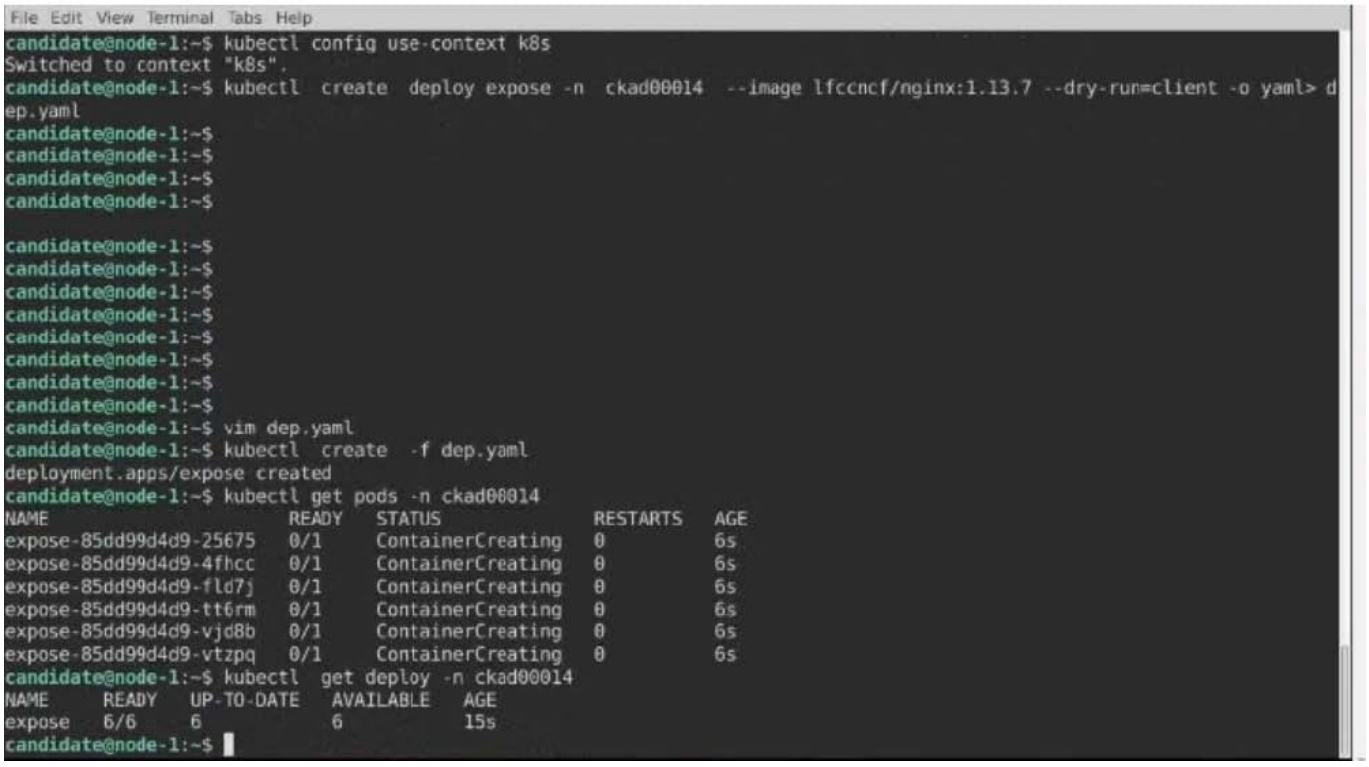
B. Place Holder

Correct Answer: A


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:~$



```
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:~$
```

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