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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-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
```

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-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:~$
```

QUESTION 2

CORRECT TEXT

Context

As a Kubernetes application developer you will often find yourself needing to update a running application.

Task

Please complete the following:

1.

Update the app deployment in the kdpd00202 namespace with a maxSurge of 5% and a maxUnavailable of 2%

2.

Perform a rolling update of the web1 deployment, changing the lfccncf/ngmx image version to 1.13

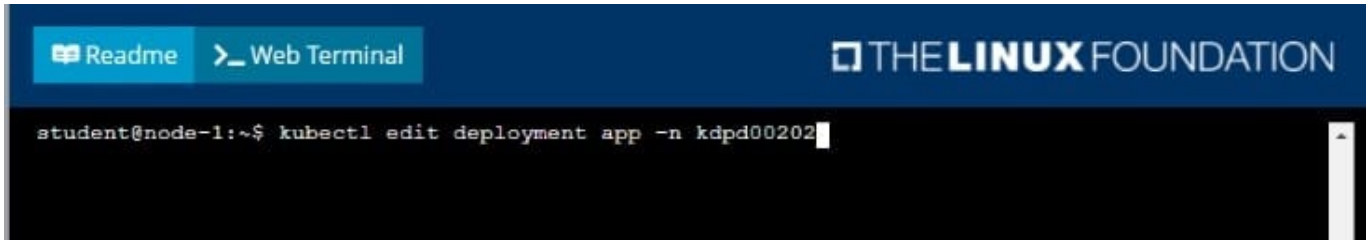
3.

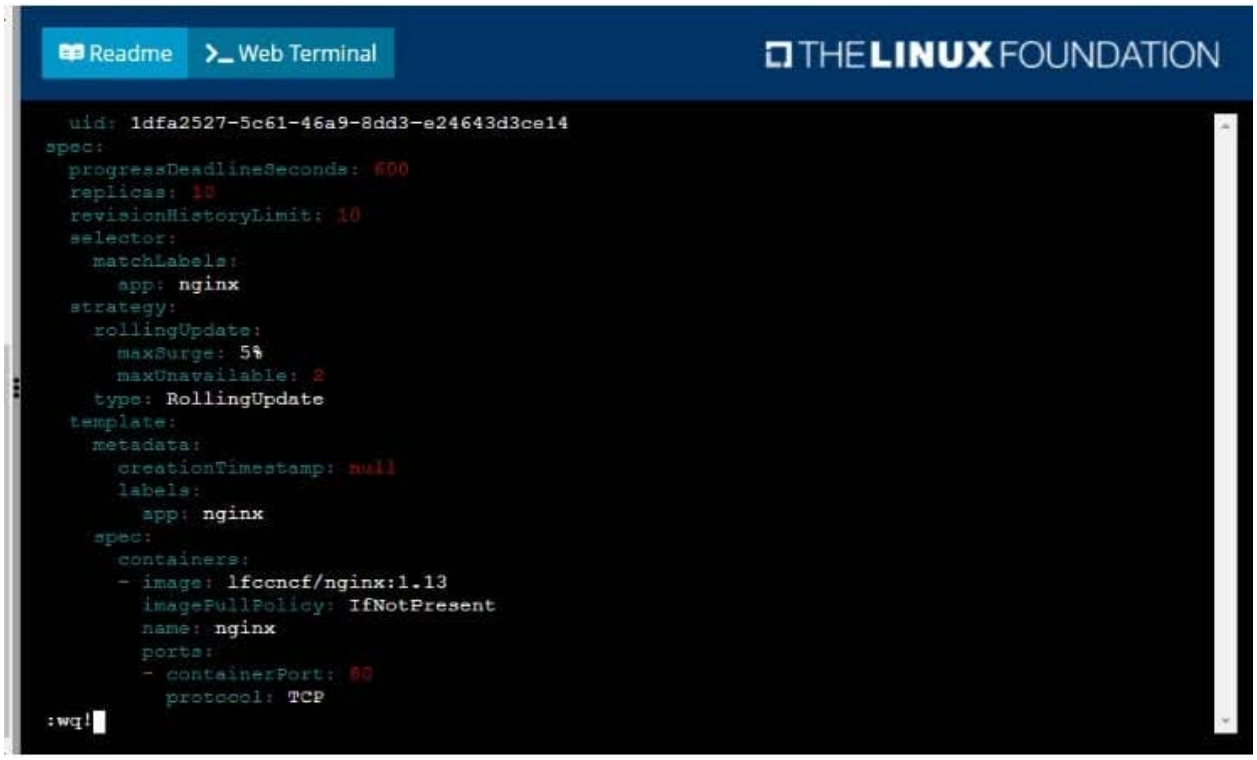
Roll back the app deployment to the previous version

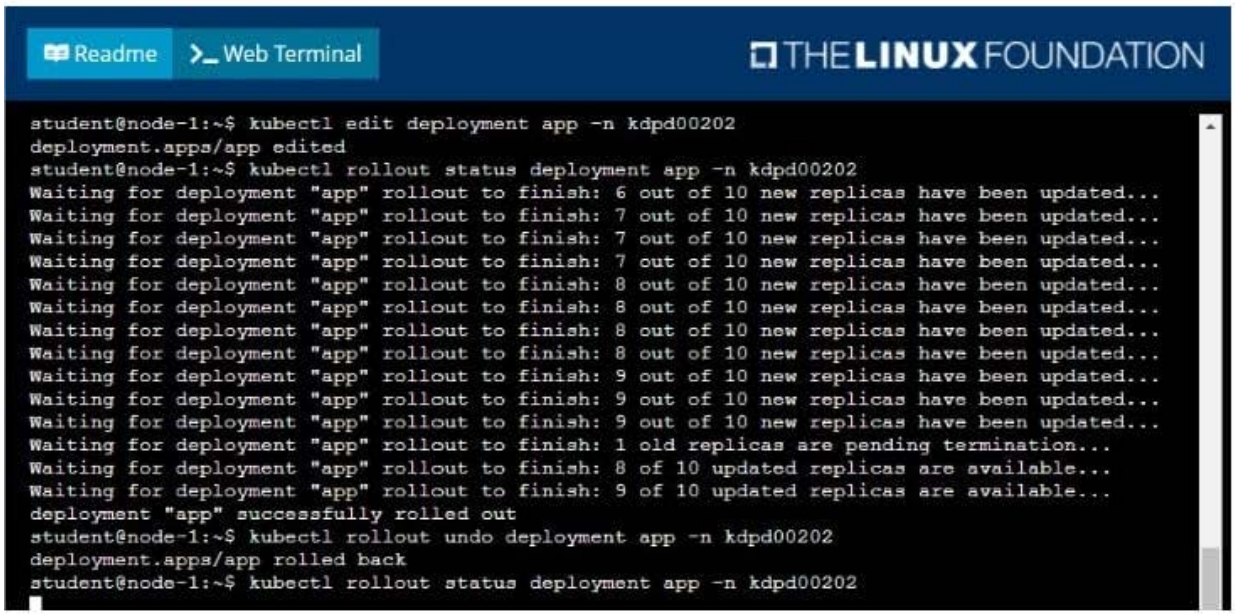
A. Please check explanations

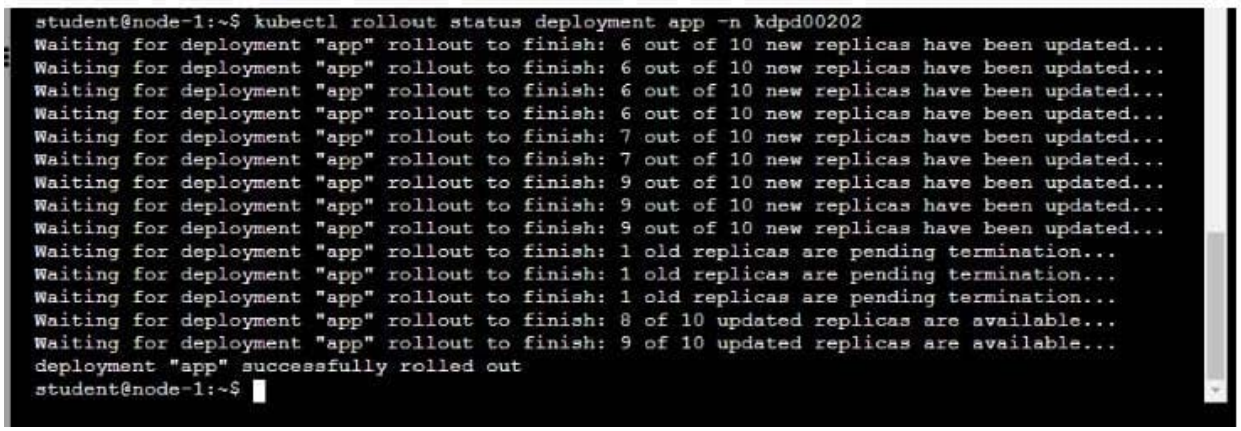
B. Place Holder

Correct Answer: A


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

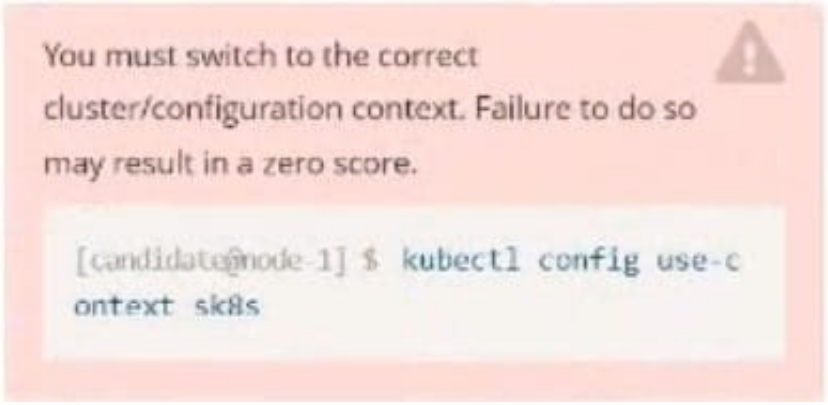

Readme
Web Terminal
THE LINUX FOUNDATION
uid: 1dfa2527-5c61-46a9-8dd3-e24643d3ce14
spec:
progressDeadlineSeconds: 600
replicas: 10
revisionHistoryLimit: 10
selector:
matchLabels:
app: nginx
strategy:
rollingUpdate:
maxSurge: 5%
maxUnavailable: 2
type: RollingUpdate
template:
metadata:
creationTimestamp: 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:~$

QUESTION 3

CORRECT TEXT



Task:

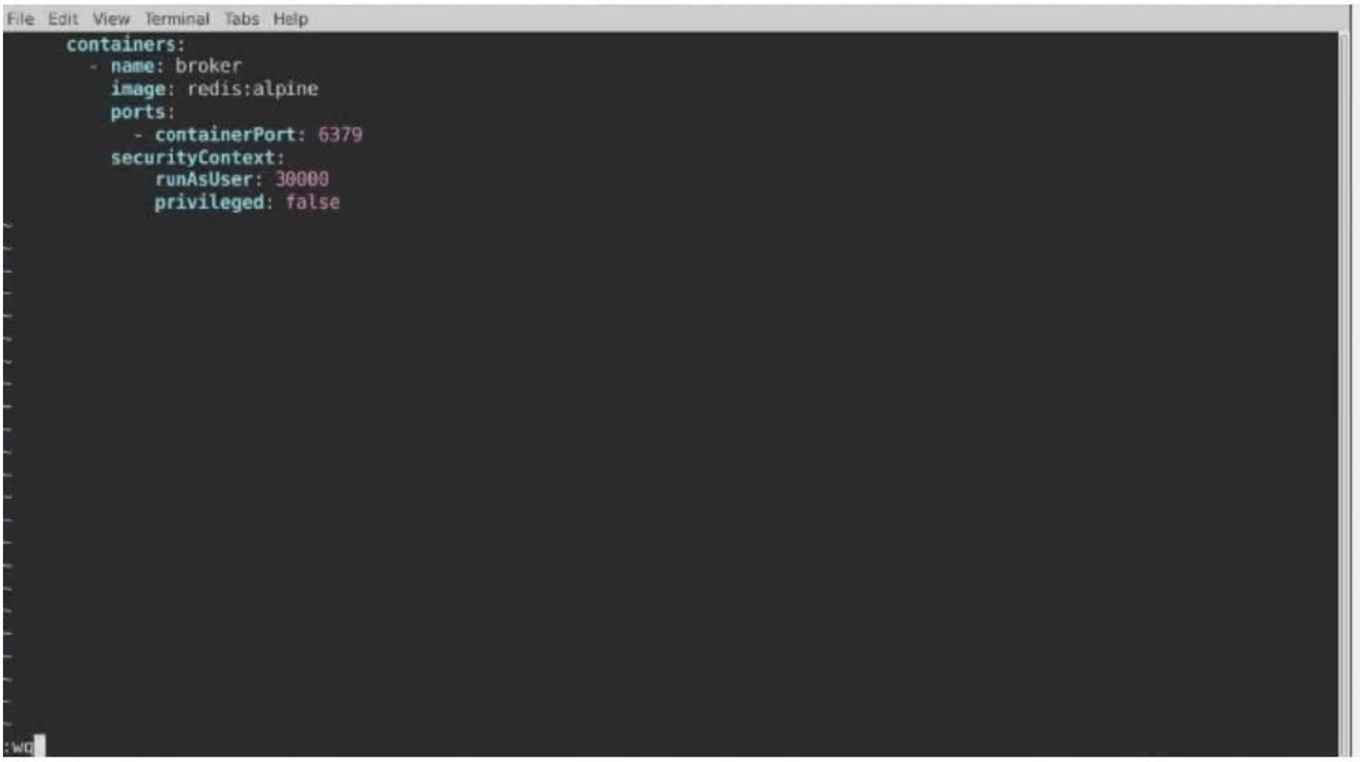
Modify the existing Deployment named broker-deployment running in namespace quetzal so that its containers.

The broker-deployment is manifest file can be found at:

A. Please check explanations

B. Place Holder

Correct Answer: A



QUESTION 4

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.

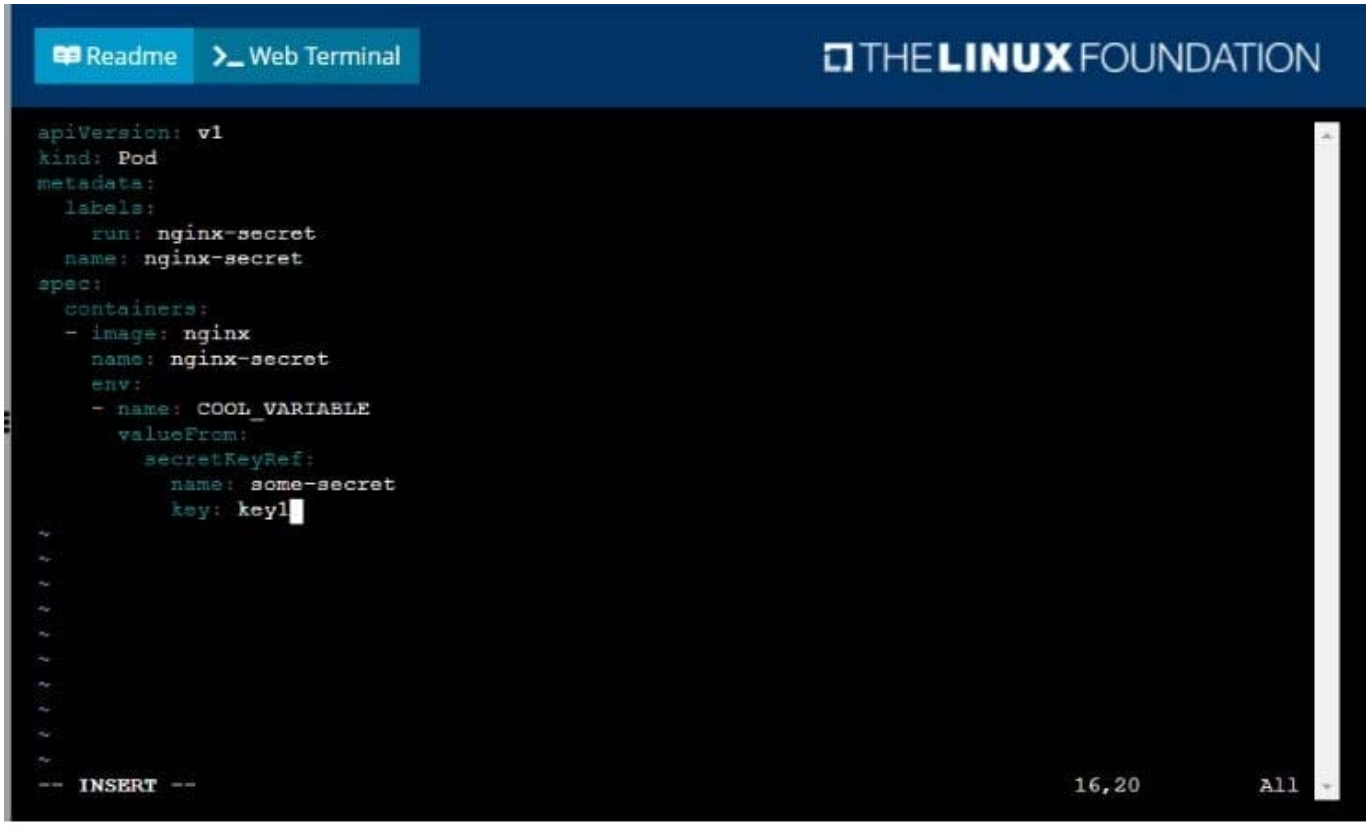
Start an nginx pod named nginx-secret using container image nginx, and add an environment variable exposing the value of the secret key key1, using COOL_VARIABLE as the name for the environment variable inside the pod

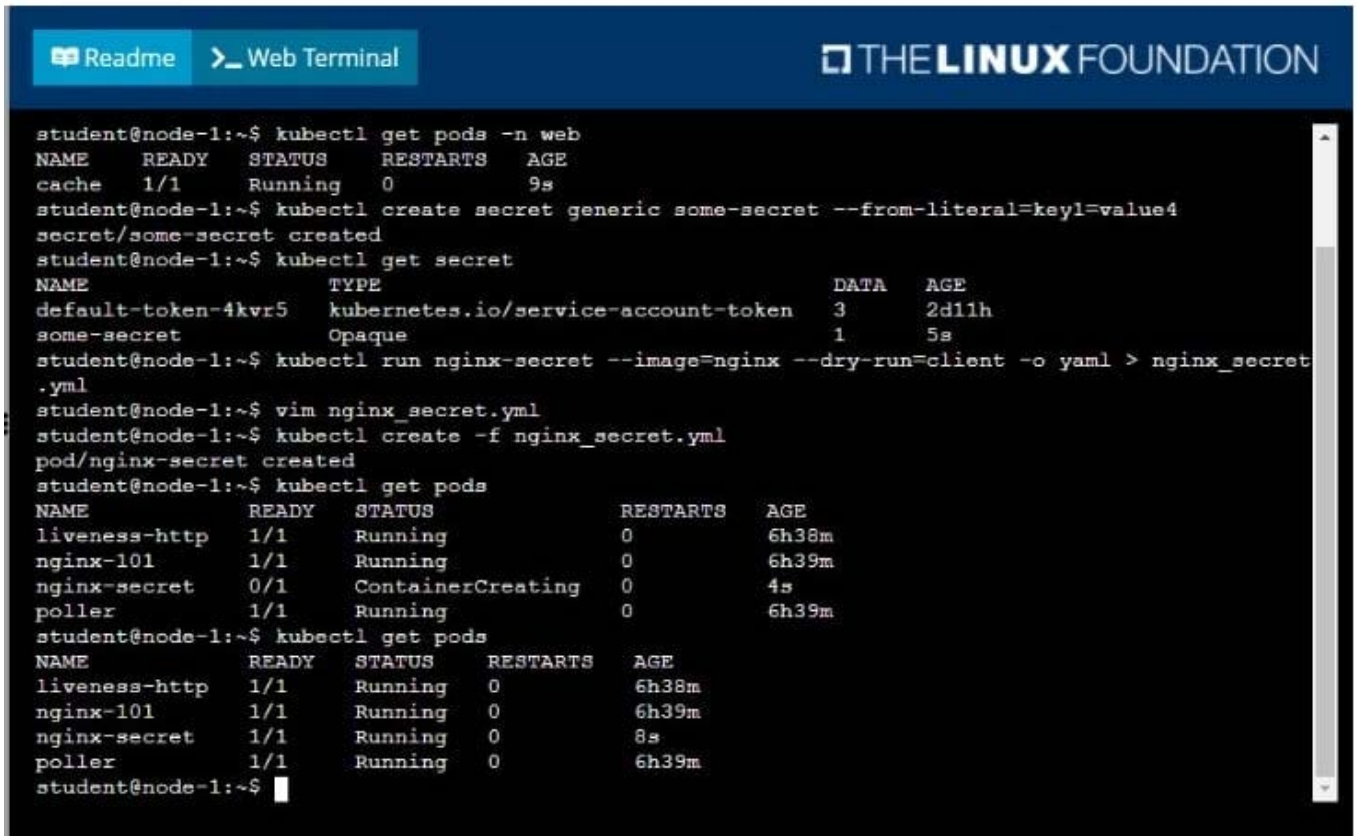
A. Please check explanations

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:
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 5

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

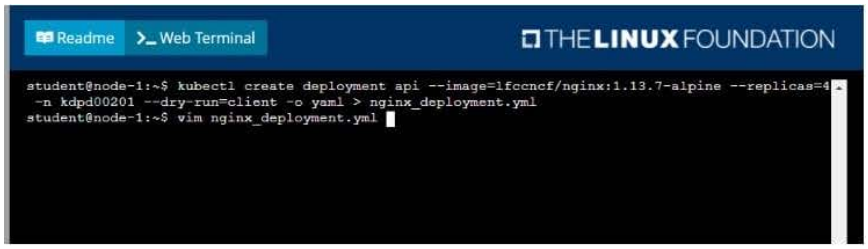
4.

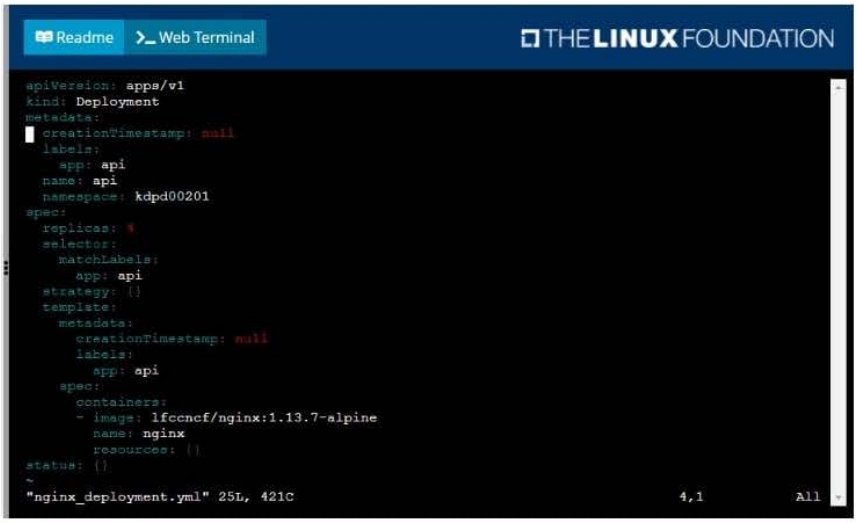
Set an environment variable of NGINX__PORT=8080 and also expose that port for the container above

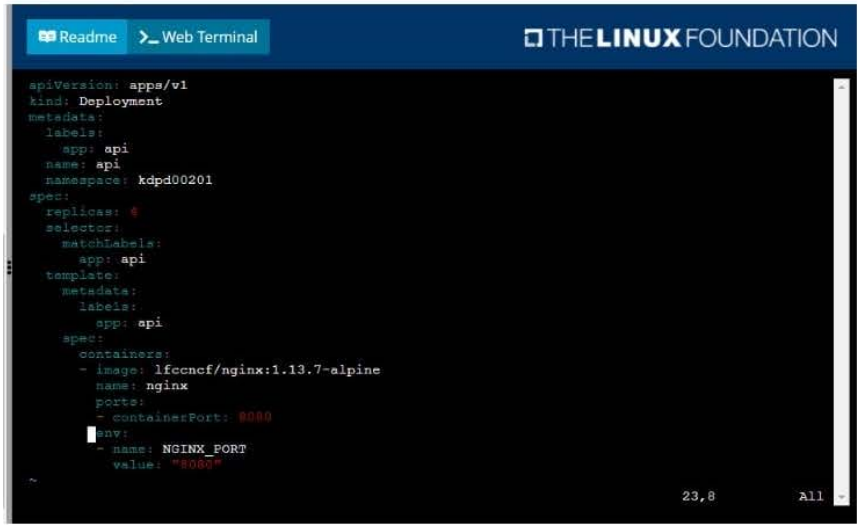
A. Please check explanations

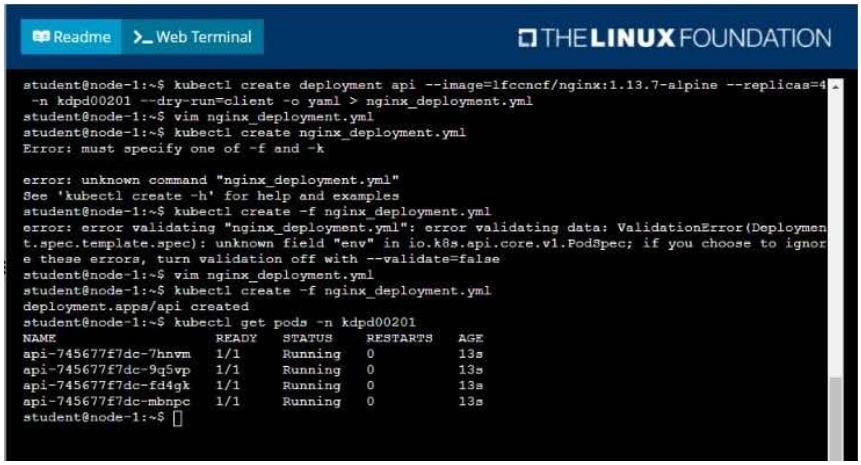
B. Place Holder

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

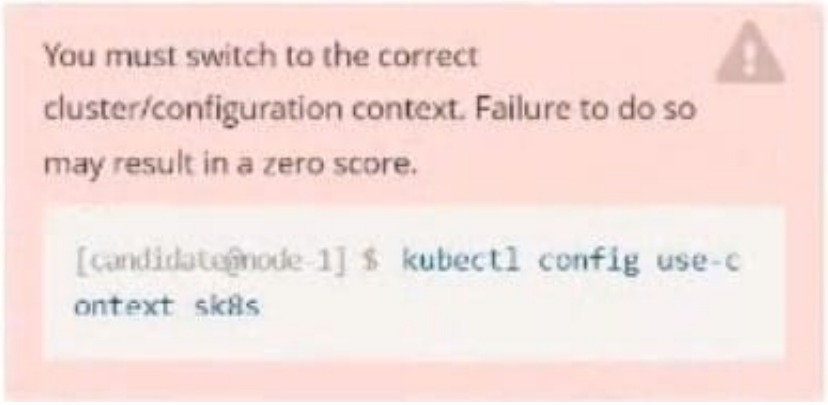

Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: apps/v1
kind: Deployment
metadata:
creationTimestamp: null
labels:
app: api
name: api
namespace: kdpd00201
spec:
replicas: 4
selector:
matchLabels:
app: api
strategy: {}
template:
metadata:
creationTimestamp: null
labels:
app: api
spec:
containers:
- 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
t.spec.template.spec): unknown field "env" in io.k8s.api.core.v1.PodSpec; if you choose to ignor
e 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 6

CORRECT TEXT



Task:

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

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. Please check explanations

B. Place Holder

Correct Answer: A

```
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:~$
```

QUESTION 7

CORRECT TEXT

Task

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

A. Please check explanations

B. Place Holder

Correct Answer: A

create deploy hello-deploy --image=nginx --dry-run=client -o yaml > hello-deploy.yaml Update deployment image to nginx:1.17.4: kubectl set image deploy/hello-deploy nginx=nginx:1.17.4

QUESTION 8

CORRECT TEXT

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:

1.

Create a file on node sk8s-node-0 at /opt/KDSP00101/data/index.html with the content Acct=Finance

2.

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 PersistenetVolume.

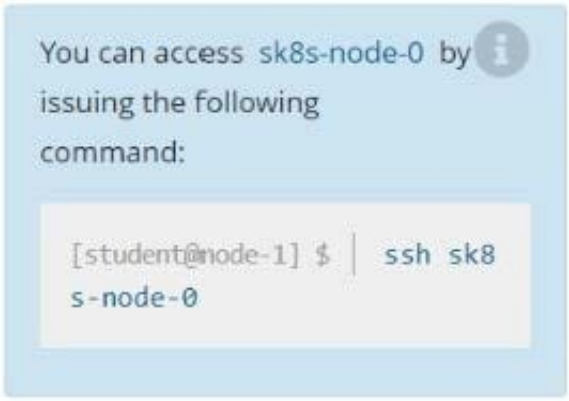
1.

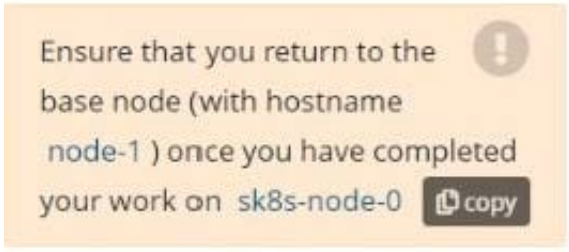
Create a PefsissentVolumeClaim named task-pv-claim that requests a volume of at least 100Mi and specifies an access mode of ReadWriteOnce

2.

Create a pod that uses the PersistentVolmeClaim as a volume with a label app: my- storage-app mounting the resulting

volume to a mountPath /usr/share/nginx/html inside the pod

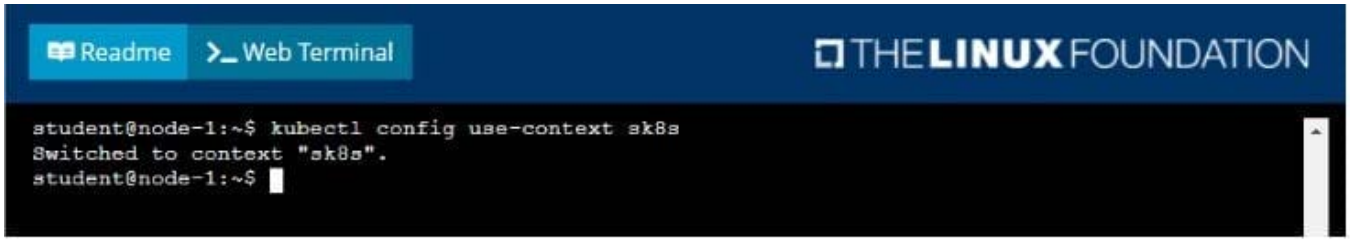


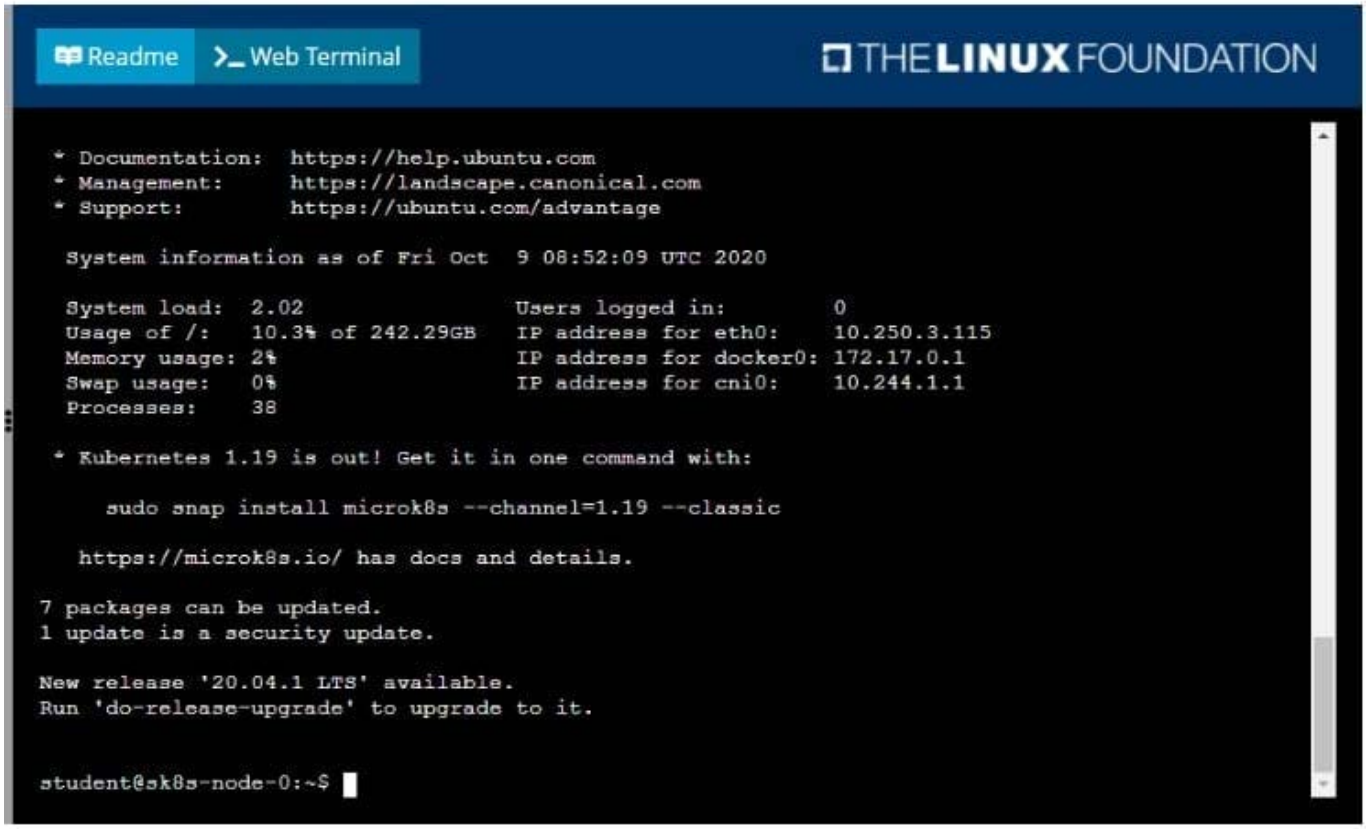


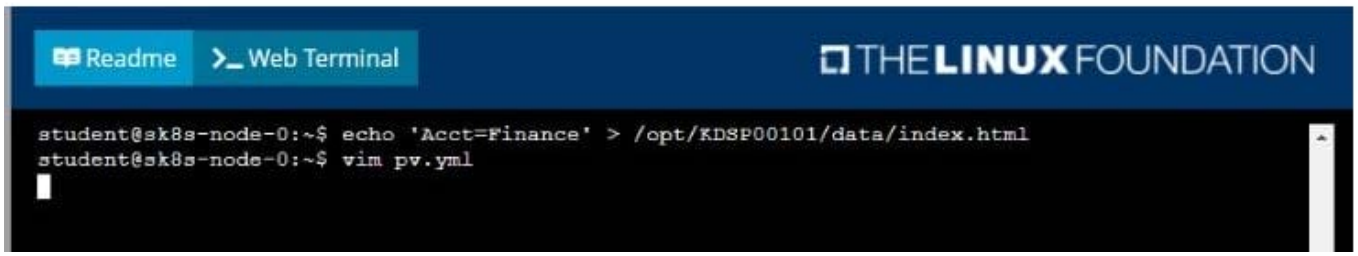
A. Please check explanations

B. Place Holder

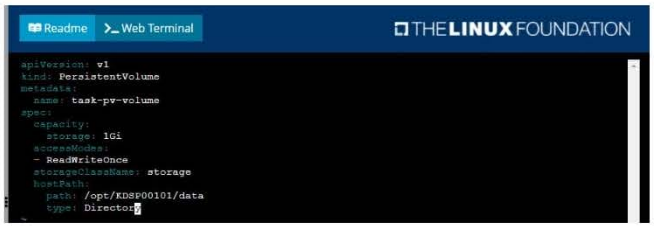
Correct Answer: A


Readme
Web Terminal
THE LINUX FOUNDATION
student@node-1:~$ kubectl config use-context sk8s
Switched to context "sk8s".
student@node-1:~$

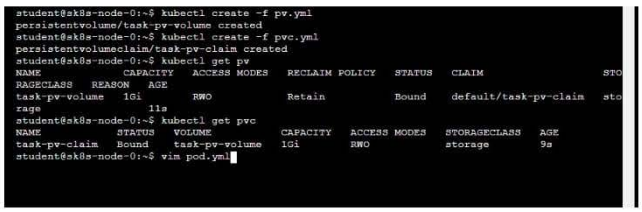

Readme
Web Terminal
THE LINUX FOUNDATION
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
System information as of Fri Oct 9 08:52:09 UTC 2020
System load: 2.02
Usage of /: 10.3% of 242.29GB
Memory usage: 2%
Swap usage: 0%
Processes: 38
Users logged in: 0
IP address for eth0: 10.250.3.115
IP address for docker0: 172.17.0.1
IP address for cni0: 10.244.1.1
* 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:~$

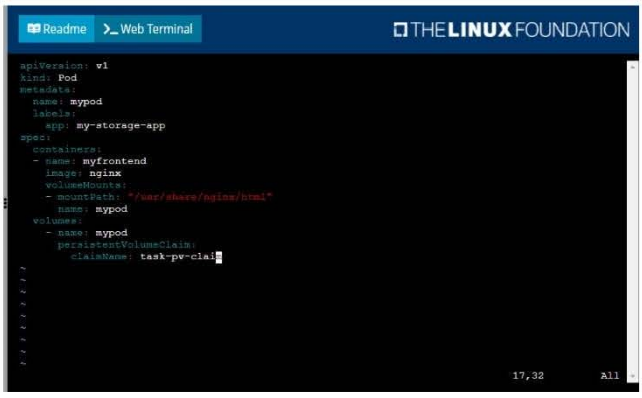

Readme
Web Terminal
THE LINUX FOUNDATION
student@sk8s-node-0:~$ echo 'Acct=Finance' > /opt/KDSP00101/data/index.html
student@sk8s-node-0:~$ vim pv.yml

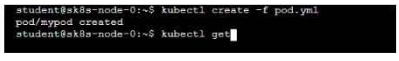

Readme
Web Terminal
THE LINUX FOUNDATION
-- INSERT --
0,1
All

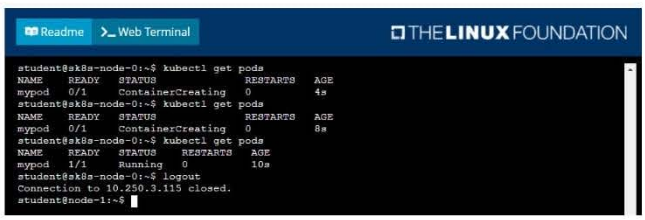

Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: PersistentVolume
metadata:
name: task-pv-volume
spec:
capacity:
storage: 1Gi
accessModes:
- ReadWriteOnce
storageClassName: storage
hostPath:
path: /opt/KDSP00101/data
type: Director


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
name: task-pv-claim
spec:
accessModes:
- ReadWriteOnce
resources:
requests:
storage: 100Mi
storageClassName: storage


student@sk8s-node-0:~$ kubectl create -f pv.yml
persistentvolume/task-pv-volume created
student@sk8s-node-0:~$ kubectl create -f pvc.yml
persistentvolumeclaim/task-pv-claim created
student@sk8s-node-0:~$ kubectl get pv
NAME CAPACITY ACCESS MODES RECLAIM POLICY STATUS CLAIM STO
RAGECLASS REASON AGE
task-pv-volume 1Gi RWO Retain Bound default/task-pv-claim sto
rage 11s
student@sk8s-node-0:~$ kubectl get pvc
NAME STATUS VOLUME CAPACITY ACCESS MODES STORAGECLASS AGE
task-pv-claim Bound task-pv-volume 1Gi RWO storage 9s
student@sk8s-node-0:~$ vim pod.yml

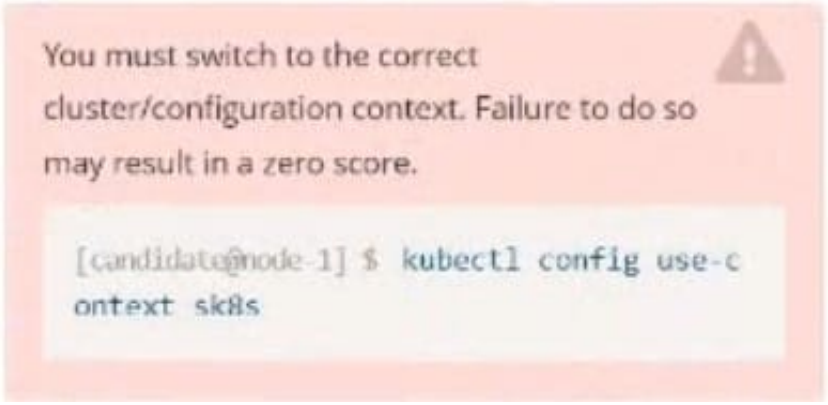

Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
name: mypod
labels:
app: my-storage-app
spec:
containers:
- name: myfrontend
image: nginx
volumeMounts:
- mountPath: "/usr/share/nginx/html"
name: mypod
volumes:
- name: mypod
persistentVolumeClaim:
claimName: task-pv-clai
17,32
All


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:~$

QUESTION 9

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:~$
```

QUESTION 10

CORRECT TEXT

Context

A user has reported an application is unreachable due to a failing livenessProbe .

Task

Perform the following tasks:

Find the broken pod and store its name and namespace to /opt/KDOB00401/broken.txt in the format:

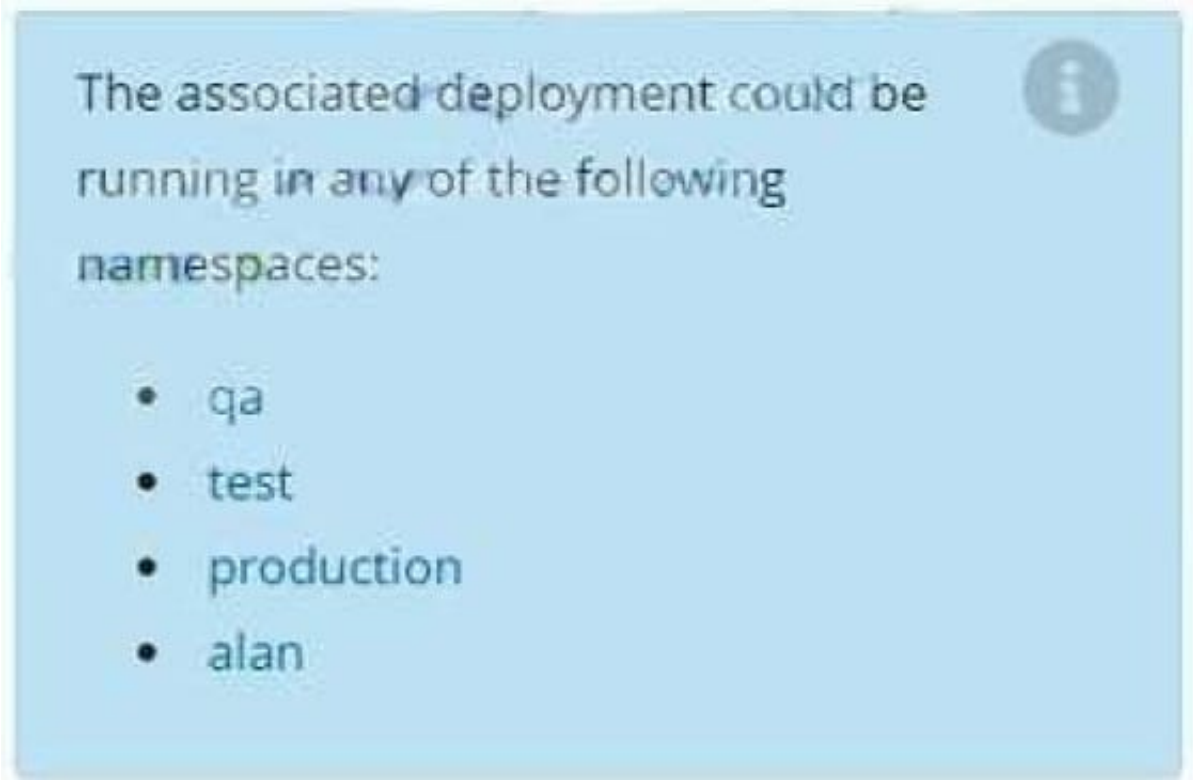
The output file has already been created

1.

Store the associated error events to a file /opt/KDOB00401/error.txt, The output file has already been created. You will need to use the -o wide output specifier with your command

2.

Fix the issue.



A. Please check explanations

B. Place Holder

Correct Answer: A

Create the Pod: kubectl create -f http://k8s.io/docs/tasks/configure-pod-container/exec-liveness.yaml Within 30 seconds, view the Pod events: kubectl describe pod liveness-exec The output indicates that no liveness probes have failed yet: FirstSeen LastSeen Count From SubobjectPath Type Reason Message --------- -------- ----- ---- ------------- -------- ------ ------- 24s 24s 1 {default-scheduler } Normal Scheduled Successfully assigned liveness-exec to worker0 23s 23s 1 {kubelet worker0} spec.containers{liveness} Normal Pulling pulling image "gcr.io/google_containers/busybox" 23s 23s 1 {kubelet worker0} spec.containers{liveness} Normal Pulled Successfully pulled image "gcr.io/google_containers/busybox" 23s 23s 1 {kubelet worker0} spec.containers{liveness} Normal Created Created container with docker id 86849c15382e; Security:[seccomp=unconfined] 23s 23s 1 {kubelet worker0} spec.containers{liveness} Normal Started Started container with docker id 86849c15382e After 35 seconds, view the Pod events again: kubectl describe pod liveness-exec At the bottom of the output, there are messages indicating that the liveness probes have failed, and the containers have been killed and recreated. FirstSeen LastSeen Count From SubobjectPath Type Reason Message --------- -------- ----- ---------- -------- ------ ------- 37s 37s 1 {default-scheduler } Normal Scheduled Successfully assigned liveness-exec to worker0 36s 36s 1 {kubelet worker0} spec.containers{liveness} Normal Pulling pulling image "gcr.io/google_containers/busybox" 36s 36s 1 {kubelet worker0} spec.containers{liveness} Normal Pulled Successfully pulled image "gcr.io/google_containers/busybox" 36s 36s 1 {kubelet worker0} spec.containers{liveness} Normal Created Created container with docker id 86849c15382e; Security:[seccomp=unconfined] 36s 36s 1 {kubelet worker0} spec.containers{liveness} Normal Started Started container with docker id 86849c15382e 2s 2s 1 {kubelet worker0} spec.containers{liveness} Warning Unhealthy Liveness probe failed: cat: can\\'t open \\'/tmp/healthy\\': No such file or directory Wait another 30 seconds, and verify that the Container has been restarted: kubectl get pod liveness-exec The output shows that RESTARTS has been incremented: NAME READY STATUS RESTARTS AGE liveness-exec 1/1 Running 1 m