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QUESTION 1

CORRECT TEXT



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:

1.

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

2.

Have 4 replicas

Next, create and deploy in namespace kdsn00l01 a service that accomplishes the following:

1.

Exposes the service on TCP port 8080

2.

is mapped to me pods defined by the specification of kdsn00l01-deployment

3.

Is of type NodePort

4.



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Has a name of cherry

- A. Please check explanations
- B. Place Holder

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



```
wid: 8d3ace00-7761-4189-ba10-fbc676c311bf
spec:
progressDesdlineSeconds: 600
replicas: 4
revisionHistoryLimit: 10
selectoc:
matchLabels:
app: nginx
strategy:
rollingUpdate:
maxSurge: 255
maxUnavailable: 255
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 7h17m
student@node-1:~$ kubectl expose deployment kdsn00101-deployment -n kdsn00101 --type NodePort --
port 8080 --name cherry
service/cherry exposed
```

QUESTION 2

CORRECT TEXT



Context

A web application requires a specific version of redis to be used as a cache.

Task

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Create a pod with the following characteristics, and leave it running when complete:

1.

The pod must run in the web namespace.

2.

The namespace has already been created

3.

The name of the pod should be cache

4.

Use the Ifccncf/redis image with the 3.2 tag

5.

Expose port 6379

A. Please check explanations

B. Place Holder

Correct Answer: A



QUESTION 3

CORRECT TEXT



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

Task:

1.

Create a deployment named deployment-xyz in the default namespace, that:

2.

Includes a primary

3.

Ifccncf/busybox:1 container, named logger-dev

4.

Includes a sidecar Ifccncf/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

5.

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:

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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.yaml , and mount that ConfigMap to /fluentd/etc in the adapter-zen sidecar container

A. Please check explanations

B. Place Holder



```
apiversion: apps/v1
kind: Deployment

stadata:
creationVinestamp: null
labels:
app: deployment-xyz
name: deployment-xyz
spec:
replicas: !
selector:
matchLabels:
app: deployment-xyz
strategy: {}
template:
metadata:
creationVinestamp: null
labels:
app: deployment-xyz
spec:
containers:
- image: lfccncf/busybox:1
name: busybox
resources: {}
status: {}

"deployment_xyz.yml" 24L, 434C

3,1 All -
```



```
metadata:
| labels:
| app: deployment-xyz |
| ppecs |
| volumes:
| - name: myvol1 |
| emptyplin: {|
| - name: myvol2 |
| confighap:
| name: logoonf |
| containers:
| - image: lfcncf/busybox:1 |
| name: logoer-dev |
| command: | "/bin/sh", "-o", while | true |; do scho | luv enof| >> /tmp/log/imput.lag; el
| esp 10; dome| |
| volumeMounts: |
| name: myvol1 |
| mountPath: /tmp/log |
| image: lfcncf/fluentd:v0.12 |
| name: adapter-zen |
| command: | "/bin/sh", "-o", tril -f /tmp/log/imput.log >> /tmp/log/output.log"|
| volumeMounts: |
| name: myvol1 |
| mountPath: /tmp/log |
| mountPath: /tluentd/ets |
| 37,33 |
| Bot -
```

QUESTION 4

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

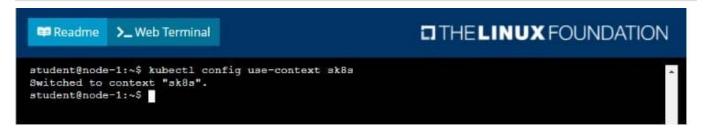
You can access sk8s-node-0 by issuing the following command:

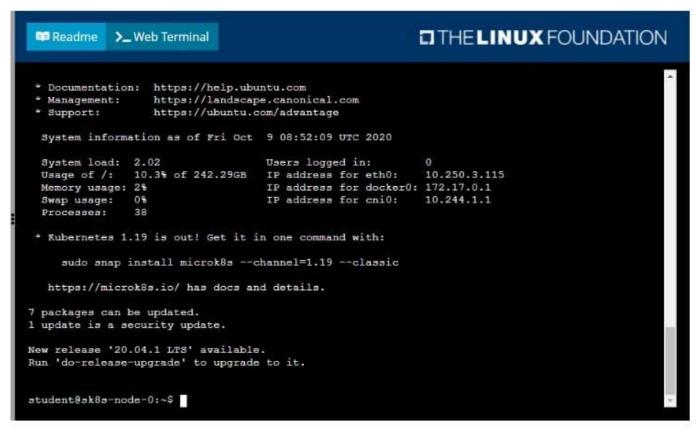
[student@node-1] \$ | ssh sk8 s-node-0

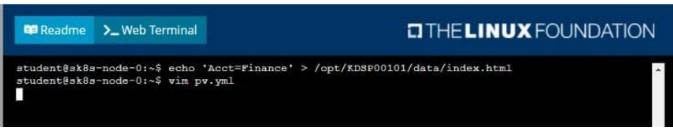
Ensure that you return to the base node (with hostname node-1) once you have completed your work on sk8s-node-0 (1) copy

- A. Please check explanations
- B. Place Holder

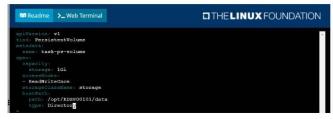














```
student8sk8s-node-0:-$ kubectl create -f pv.yml
persistentvolume/tesk-pv-volume created
student0sk8s-node-0:-$ kubectl created
student0sk8s-node-0:-$ vim pod.yml
persistentvolumeclesin/tesk-pv-claim created
student0sk8s-node-0:-$ vim pod.yml
RECLAIM POLICY STATUS
REASON ASS

TESKO ASS

TESKO ASS

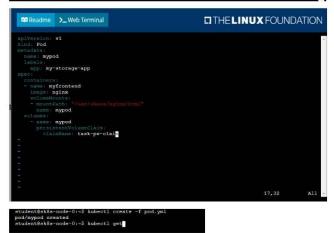
TESKO RELAIM POLICY STATUS

TO BELLAIM STO BELLAIM POLICY STATUS

TO BELLAIM STO BELLAIM STO BELLAIM POLICY STATUS

TO BELLAIM STATUS

TO BELLAIM
```



```
atudent@ak@a-nods-01-% kubectl get pods
NAME BEADY STATUS
RESTATUS
RESTATUS
RESTATUS
RESTATUS
RESTARCS
AGE
RE
```

QUESTION 5

CORRECT TEXT

You must switch to the correct
cluster/configuration context. Failure to do so
may result in a zero score.

[candidate@node-1] \$ kubectl config use-c
ontext sk8s

Task:

To run 2 replicas of the pod

Add the following label on the pod:

Role userUI

A. Please check explanations

B. Place Holder



```
File Edit View Terminal Tabs Help
  reopened with the relevant failures.
apiVersion: apps/vl
kind: Deployment
 netadata:
  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-45e9-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
```

```
File Edit View Terminal Tabs Help
name: ckad00017-deployment
 namespace: ckad00017
resourceVersion: "3349"
 uid: 1cd67613-fade-46e9-b741-94298b9c6e7c
 progressDeadlineSeconds: 600
  replicas:
  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%
```



```
File Edit View Terminal Tabs Help
backend-deployment-59d449b99d-h2zjq
                                                                 Running
backend-deployment-78976f74f5-b8c85
                                                                                               6h49m
                                                                 Running
backend-deployment-78976f74f5-flfsj
                                                     1/1
                                                                 Running
                                                                                               6h40m
                                                                               0
candidate@node-1:-$ kubectl get deploy -n staging
                             READY UP-TO-DATE AVAILABLE
NAME
                                                                             AGE
backend-deployment
                                                                             6h40m
candidate@node-1:-$ kubectl get deploy -n staging
NAME READY UP-TO-DATE AVAILABLE
                                                                             AGE
                                                                            6h41m
backend-deployment
candidate@node-1:-$ vim ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:-$ kubectl config use-context k8s
Switched to context "k8s".
 candidate@node-1:-5 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
                                                     READY
NAME
                                                               STATUS
                                                                                              RESTARTS
                                                                                                             AGE
buffalo-deployment-776844df7f-r5fsb 1/1
buffalo-deployment-859898c6f5-zx5gj 0/1
                                                                 Running
                                                                                                             6h38m
                                                                ContainerCreating
                                                                                              0
                                                                                                             Bs
candidate@node-1:~$ kubectl get deploy -n gorilla
NAME READY UP-TO-DATE AVAILABLE
                                                                             AGE
buffalo-deployment
                                                                             6h38m
candidate@node-1:-$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~S kubectl edit deploy ckad00017-deployment -n ckad00017
deployment.apps/ckad00017-deployment edited
candidate@node-1:~s
```

```
File Edit View Terminal Tabs Help
candidate@node-1:-$ kubectl get pods
                                        -n gorilla
READY ST
                                                 STATUS
                                                                       RESTARTS
                                                                                   AGE
buffalo-deployment-776844df7f-r5fsb
                                                 Running
                                                                                   6h38m
buffalo-deployment-859898c6f5-zx5gj
                                        0/1
                                                 ContainerCreating
                                                                                   85
candidate@node-1:~$ kubectl get deploy -n gorilla
                      READY
                               UP-TO-DATE
                                             AVAILABLE
                                                          AGE
buffalo-deployment
                                                          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 ckad0001
ckad90014 ckad90015 ckad90017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:-$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:-$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:-$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:-$ kubectl expose deploy ckad00017-deployment -n ckad0001
 kad00014 ckad00015 ckad00017
candidate@node-1:-$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:-$ kubectl expose deploy ckad00017 deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:-$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:-$ kubectl expose deploy ckad00017-deployment n ckad00017 - name=cherry --port=8888 --type=NodePert
service/cherry exposed
 andidate@node-1:-$
```

```
candidate@node-1:-$ kubectl get svc
                          CLUSTER-IP
             TYPE
                                        EXTERNAL-IP
                                                       PORT(S)
                                                                 AGE
            ClusterIP
kubernetes
                        10.95.0.1
                                                       443/TCP
                                                                 77d
                                        <none>
candidate@node-1:-$ kubectl get svc
                                       -n ckad00017
         TYPE
                    CLUSTER-IP
                                      EXTERNAL-IP
                                                     PORT(S)
        NodePort 10.100.100.176
                                                      8888:30683/TCP
                                       <none>
candidate@node-1:-$ kubectl expose
                                      service
                                                 deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=N
odePort
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
       NodePort
                     10.100.100.176
                                                      8888:30683/TCP
cherry
andidate@node-1:~S
```



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```
File Edit View Terminal Tabs Help
candidate@node-1:-$ kubectl expose service deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=N
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
cherry NodePort 10.100.100.176 <none>
candidate@node-1:-$ history

1 vi ~/spicy-pikachu/backend-deployment.yaml
                                                                                   PORT(S)
                                                                                   8888:30683/TCP
                                                                                                               465
          kubectl config use-context sk8s
          vim -/spicy-pikachu/backend-deployment.yaml
         kubectl apply -f -/spicy-pikachu/backend-deployment.yaml
kubectl get pods -n staging
kubectl get deploy -n staging
vim -/spicy-pikachu/backend-deployment.yaml
kubectl config use-context k8s
          kubectl set serviceaccount deploy app-1 app -n frontend kubectl config use-context k8s
     10
         vim ~/prompt-escargot/buffalo-deployment.yaml
kubectl apply -f ~/prompt-escargot/buffalo-deployment.yaml
kubectl get pods -n gorilla
kubectl get deploy -n gorilla
kubectl config use-context k8s
     12
          kubectl edit deploy ckad00017-deployment -n ckad00017
          kubectl expose deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
     18
          kubectl get svc -n ckad00017
kubectl expose service deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
kubectl get svc -n ckad00017
     19
     20
 andidate@node-1:-5
```

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