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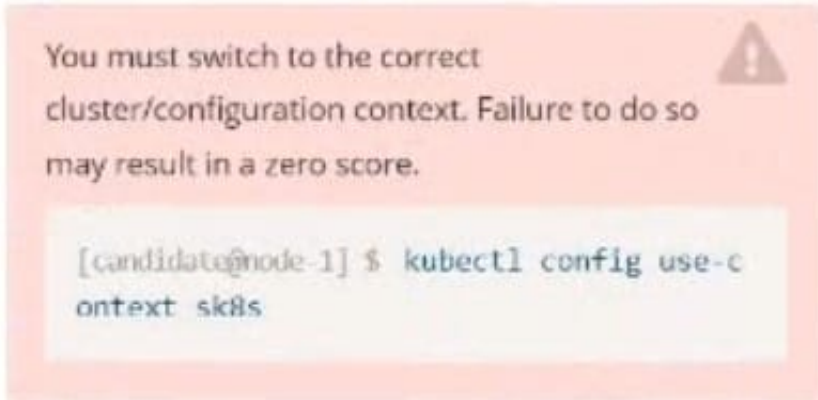
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QUESTION 1

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 ifcnf/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 ifcnf/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:~$
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candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
```

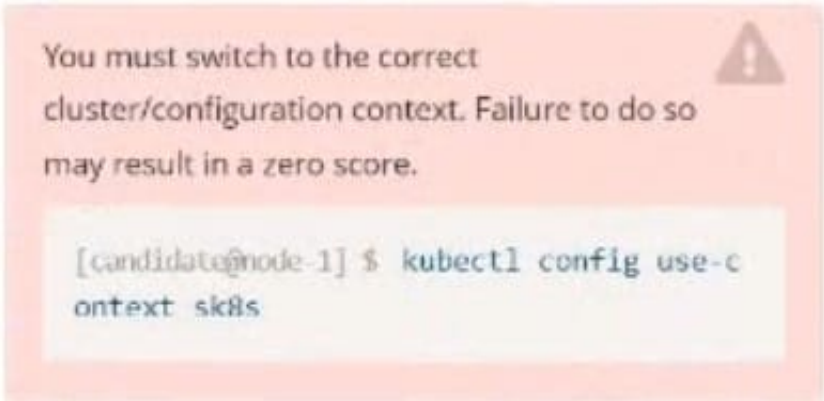
```
File Edit View Terminal Tabs Help
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: expose
  name: expose
  namespace: ckad00014
spec:
  replicas: 6
  selector:
    matchLabels:
      app: expose
  strategy: {}
  template:
    metadata:
      creationTimestamp: 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 > dep.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:~$ 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-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:~$
```

QUESTION 2

CORRECT TEXT

```
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/κDOB00301/pod.txt
```



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           6h46m
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 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.

lfccncf/busybox:1 container, named logger-dev

4.
Includes a sidecar lfccncf/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:

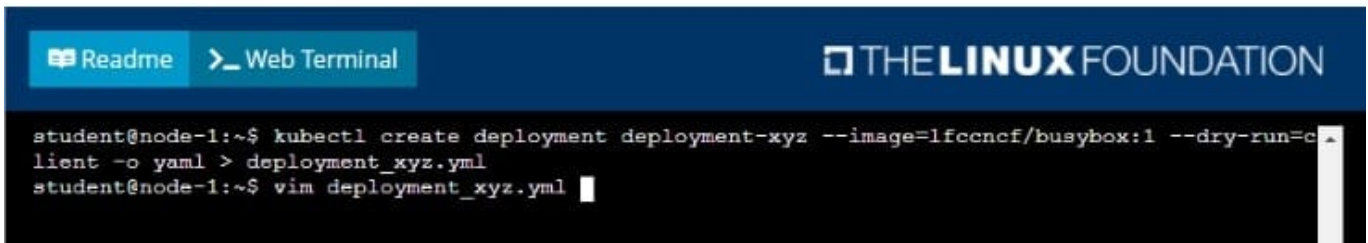
```
i luv cncf
i luv cncf
i luv cncf
```

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

Correct Answer: A





The screenshot shows a web terminal interface with a dark background and light-colored text. At the top, there are two buttons: 'Readme' and 'Web Terminal'. The 'THE LINUX FOUNDATION' logo is visible in the top right corner. The main content is a code editor displaying a Kubernetes deployment manifest. The manifest is a YAML file named 'deployment_xyz.yml' with 24 lines and 434 characters. The manifest defines a Deployment object with the following structure:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: deployment-xyz
  name: deployment-xyz
spec:
  replicas: 1
  selector:
    matchLabels:
      app: deployment-xyz
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: deployment-xyz
    spec:
      containers:
      - image: lfcncf/busybox:1
        name: busybox
        resources: {}
status: {}
```

At the bottom of the terminal, there is a status bar showing the filename 'deployment_xyz.yml', line and column counts '24L, 434C', a search indicator '3,1', and a dropdown menu 'All'.

```
Kind: Deployment
metadata:
  labels:
    app: deployment-xyz
  name: deployment-xyz
spec:
  replicas: 1
  selector:
    matchLabels:
      app: deployment-xyz
  template:
    metadata:
      labels:
        app: deployment-xyz
    spec:
      volumes:
      - name: myvoll
        emptyDir: {}
      containers:
      - image: lfccncf/busybox:1
        name: logger-dev
        volumeMounts:
        - name: myvoll
          mountPath: /tmp/log
      - image: lfccncf/Fluentd:v0.12
        name: adapter-zen
```

```
replicas: 1
selector:
  matchLabels:
    app: deployment-xyz
template:
  metadata:
    labels:
      app: deployment-xyz
  spec:
    volumes:
    - name: myvoll
      emptyDir: {}
    containers:
    - image: lfccncf/busybox:1
      name: logger-dev
      command: ["/bin/sh","-c","while [ true ]; do echo 'i lov cncf' >> /tmp/log/input.log; sleep 10; done"]
      volumeMounts:
      - name: myvoll
        mountPath: /tmp/log
    - image: lfccncf/Fluentd:v0.12
      name: adapter-zen
      command: ["/bin/sh","-c","tail -f /tmp/log/input.log >> /tmp/log/output.log"]
      volumeMounts:
      - name: myvoll
        mountPath: /tmp/log
```

```
metadata:
  labels:
    app: deployment-xyz
spec:
  volumes:
  - name: myvoll
    emptyDir: {}
  - name: myvol2
    configMap:
      name: logconf
  containers:
  - image: lfccncf/busybox:1
    name: logger-dev
    command: ["/bin/sh","-c","while [ true ]; do echo 'i lov cncf' >> /tmp/log/input.log; sleep 10; done"]
    volumeMounts:
    - name: myvoll
      mountPath: /tmp/log
  - image: lfccncf/Fluentd:v0.12
    name: adapter-zen
    command: ["/bin/sh","-c","tail -f /tmp/log/input.log >> /tmp/log/output.log"]
    volumeMounts:
    - name: myvoll
      mountPath: /tmp/log
    - name: myvol2
      mountPath: /fluentd/etc
```

```
student@node-1:~$ kubectl create -f deployment_xyz.yml
deployment.apps/deployment-xyz created
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 0/1     1             0           5s
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 0/1     1             0           9s
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 1/1     1             1          12s
student@node-1:~$
```


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 PersistentVolume.

1.



Create a PersistentVolumeClaim 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 PersistentVolumeClaim 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 sk8s-node-0
```

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

A. Please check explanations

B. Place Holder

Correct Answer: A

```
THE LINUX FOUNDATION

Readme Web Terminal

student@node-1:~$ kubectl config use-context sk8s
Switched to context "sk8s".
student@node-1:~$
```

```
THE LINUX FOUNDATION

Readme Web Terminal

* 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 Users logged in: 0
Usage of /: 10.3% of 242.29GB IP address for eth0: 10.250.3.115
Memory usage: 2% IP address for docker0: 172.17.0.1
Swap usage: 0% IP address for cni0: 10.244.1.1
Processes: 38

* 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:~$
```

```
THE LINUX FOUNDATION

Readme Web Terminal

student@sk8s-node-0:~$ echo 'Acct=Finance' > /opt/KDSP00101/data/index.html
student@sk8s-node-0:~$ vim pv.yml
```

```
THE LINUX FOUNDATION
-- INSERT --
0,1 All
```

```
apiVersion: v1
kind: PersistentVolume
metadata:
  name: task-pv-volume
spec:
  capacity:
    storage: 1Gi
  accessModes:
    - ReadWriteOnce
  storageClassName: storage
  hostPath:
    path: /opt/KDSP00101/data
    type: Directory
```

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: task-pv-claim
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 100Mi
  storageClassName: storage
```

```
student@sk8s-node-01:~$ kubectl create -f pv.yml
persistentvolume/task-pv-volume created
student@sk8s-node-01:~$ kubectl create -f pvc.yml
persistentvolumeclaim/task-pv-claim created
student@sk8s-node-01:~$ kubectl get pv
NAME             CAPACITY  ACCESS MODES  RECLAIM POLICY  STATUS  CLAIM                STORAGECLASS  AGE
task-pv-volume   1Gi       RWO           Retain          Bound   default/task-pv-claim  storage        9s
student@sk8s-node-01:~$ 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-01:~$ vim pod.yml
```

```
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
      volume:
        - name: mypod
          persistentVolumeClaim:
            claimName: task-pv-claim
```

```
student@sk8s-node-01:~$ kubectl create -f pod.yml
pod/mypod created
student@sk8s-node-01:~$ kubectl get
```

```
THE LINUX FOUNDATION
student@sk8s-node-01:~$ kubectl get pods
NAME    READY   STATUS    RESTARTS   AGE
mypod   0/1     ContainerCreating   0          4s
student@sk8s-node-01:~$ kubectl get pods
NAME    READY   STATUS    RESTARTS   AGE
mypod   0/1     ContainerCreating   0          8s
student@sk8s-node-01:~$ kubectl get pods
NAME    READY   STATUS    RESTARTS   AGE
mypod   1/1     Running   0          10s
student@sk8s-node-01:~$ logout
Connection to 10.250.3.115 closed.
student@node-1:~$
```

QUESTION 5

CORRECT TEXT



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.

1.

Create a pod named nginx-resources in the pod-resources namespace that requests a minimum of 200m CPU and 1Gi memory for its container

2.

The pod should use the nginx image

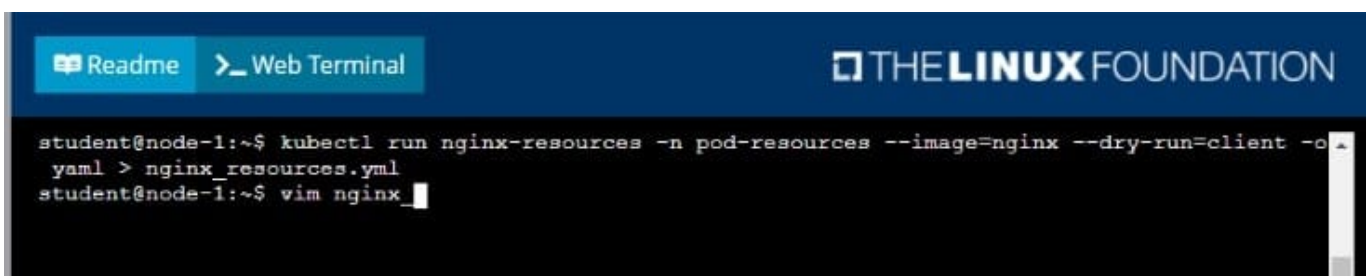
3.

The pod-resources namespace has already been created

A. Please check explanations

B. Place Holder

Correct Answer: A




```
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-ra
```

```
student@node-1:~$ kubectl get pods -n pod-resources
NAME          READY   STATUS    RESTARTS   AGE
nginx-resources 1/1     Running   0           8s
student@node-1:~$
```

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