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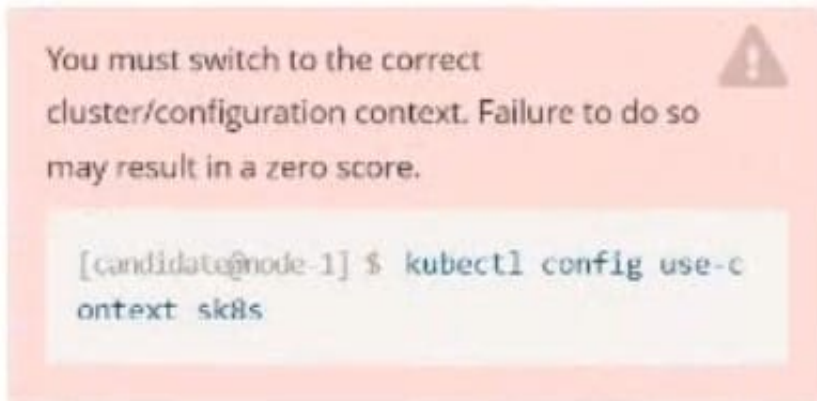
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**QUESTION 1****CORRECT TEXT****Task**

A Deployment named backend-deployment in namespace staging runs a web application on port 8081.

🔑 The Deployment's manifest files can be found at
~/spicy-pikachu/backend-deployment.yaml.

Modify the Deployment specifying a readiness probe
using path /healthz.

Set initialDelaySeconds to 8 and periodSeconds to 5.

A. Please check explanations

B. Place Holder

Correct Answer: A



```
File Edit View Terminal Tabs Help
Warning: Permanently added '172.31.17.21' (ECDSA) to the list of known hosts.

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
```

```
File Edit View Terminal Tabs Help
apiVersion: apps/v1
kind: Deployment
metadata:
  name: backend-deployment
  namespace: staging
spec:
  selector:
    matchLabels:
      app: nginx
  replicas: 3
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
        - name: nginx
          image: nginx:1.14.2
          ports:
            - containerPort: 8081
          readinessProbe:
            initialDelaySeconds: 8
            periodSeconds: 5
            httpGet:
              path: /healthz
              port: 8081
          volumeMounts:
            - mountPath: /etc/nginx/conf.d/
              name: config
            - mountPath: /usr/share/nginx/html/
              name: www
-- INSERT --
```

26,28 Top



```
File Edit View Terminal Tabs Help
Warning: Permanently added '172.31.17.21' (ECDSA) to the list of known hosts.

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
```

QUESTION 2

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 3



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 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`  copy

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           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:~$
```

```
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
```



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

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

```
THE LINUX FOUNDATION
Readme Web Terminal
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   STO
task-pv-volume    1Gi        RWO            Retain           Bound    default/task-pv-claim storage
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
Readme Web Terminal
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-claim
```

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

```
THE LINUX FOUNDATION
Readme Web Terminal
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 4

CORRECT TEXT



Context

You are tasked to create a ConfigMap and consume the ConfigMap in a pod using a volume mount.

Task

Please complete the following:

1.

Create a ConfigMap named another-config containing the key/value pair: key4/value3

2.

start a pod named nginx-configmap containing a single container using the nginx image, and mount the key you just created into the pod under directory /also/a/path

A. Please check explanations

B. Place Holder

Correct Answer: A

```
student@node-1:~$ kubectl create configmap another-config --from-literal=key4=value3
configmap/another-config created
student@node-1:~$ kubectl get configmap
NAME          DATA   AGE
another-config  1       5s
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml ^C
student@node-1:~$ mv nginx_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_co
```



```
Readme Web Terminal THE LINUX FOUNDATION

apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-configmap
  name: nginx-configmap
spec:
  containers:
  - image: nginx
    name: nginx-configmap
    resources: {}
    dnsPolicy: ClusterFirst
    restartPolicy: Always
status: {}

"nginx_configmap.yaml" 15L, 262C 1,1 All
```

```
Readme Web Terminal THE LINUX FOUNDATION

apiVersion: v1
kind: Pod
metadata:
  labels:
    run: nginx-configmap
  name: nginx-configmap
spec:
  containers:
  - image: nginx
    name: nginx-configmap
    volumeMounts:
    - name: myvol
      mountPath: /also/a/path
    volumes:
    - name: myvol
      configMap:
        name: another-config
status: {}

13,6 All
```

```
student@node-1:~$ kubectl create configmap another-config --from-literal=key4=value3
configmap/another-config created
student@node-1:~$ kubectl get configmap
NAME      DATA  AGE
another-config  1      5s
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > nginx_conf
igmap.yaml
student@node-1:~$ vim nginx_configmap.yaml ^C
student@node-1:~$ mv nginx_configmap.yaml nginx_configmap.yaml
student@node-1:~$ vim nginx_configmap.yaml
student@node-1:~$
```

```
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > nginx_conf
igmap.yaml
student@node-1:~$ vim nginx_configmap.yaml ^C
student@node-1:~$ mv nginx_configmap.yaml nginx_configmap.yaml
student@node-1:~$ vim nginx_configmap.yaml
student@node-1:~$ kubectl create f nginx_configmap.yaml
Error: must specify one of -f and -k

error: unknown command "f nginx_configmap.yaml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_configmap.yaml
error: error validating "nginx_configmap.yaml": error validating data: ValidationError(Pod.spec.c
ontainers[1]): unknown field "mountPath" in io.k8s.api.core.v1.Container; if you choose to ignor
e these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_configmap.yaml
```

```
Readme Web Terminal THE LINUX FOUNDATION

student@node-1:~$ kubectl create f nginx_configmap.yaml
Error: must specify one of -f and -k

error: unknown command "f nginx_configmap.yaml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_configmap.yaml
error: error validating "nginx_configmap.yaml": error validating data: ValidationError(Pod.spec.c
ontainers[1]): unknown field "mountPath" in io.k8s.api.core.v1.Container; if you choose to ignor
e these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_configmap.yaml
student@node-1:~$ kubectl create -f nginx_configmap.yaml
pod/nginx-configmap created
student@node-1:~$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
liveness-http  1/1     Running    0           6h44m
nginx-101    1/1     Running    0           6h45m
nginx-configmap  0/1     ContainerCreating  0           5s
nginx-secret  1/1     Running    0           3m39s
poller      1/1     Running    0           6h44m
student@node-1:~$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
liveness-http  1/1     Running    0           6h44m
nginx-101    1/1     Running    0           6h45m
nginx-configmap  1/1     Running    0           8s
nginx-secret  1/1     Running    0           5m42s
poller      1/1     Running    0           6h45m
student@node-1:~$
```



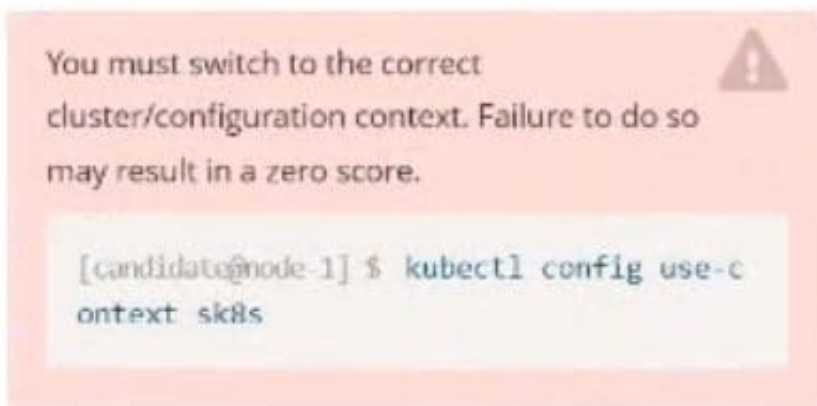
QUESTION 5

CORRECT TEXT

The screenshot shows a terminal window with a dark blue header bar containing "Readme" and "Web Terminal" buttons, and "THE LINUX FOUNDATION" logo. The terminal output shows the command `kubectl top pods -n cpu-stress` and its output:

NAME	CPU (cores)	MEMORY (bytes)
max-load-98b9se	68m	6Mi
max-load-ab2d3s	21m	6Mi
max-load-kipb9a	45m	6Mi

The prompt `student@node-1:~$` is shown at the end of the output.



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:~$
```

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