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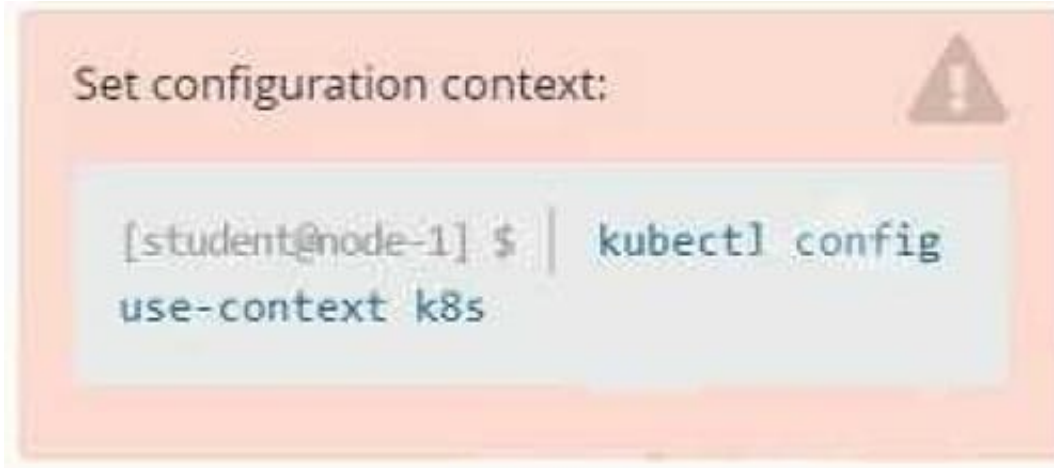
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QUESTION 1

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_conf
igmap.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
```



```
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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:~$ 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
```

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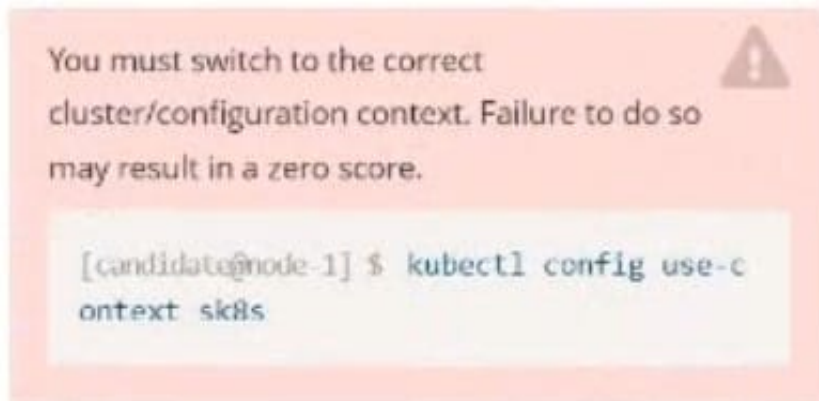
student@node-1:~$ kubectl create f nginx_configmap.yaml
Error: must specify one of -f and -k

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          5m39s
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:~$
```

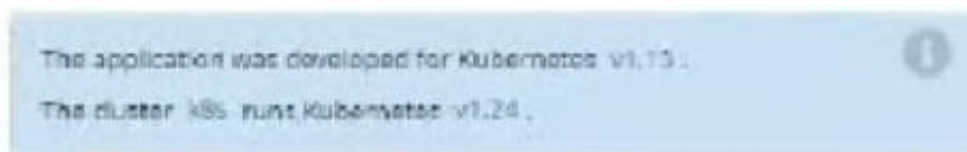


QUESTION 2

CORRECT TEXT



Task:



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:~$ vim ~/credible-mite/www.yaml
```

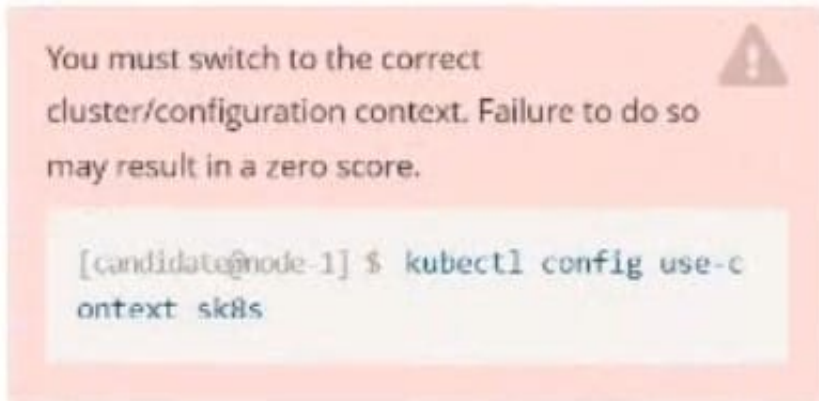


```
File Edit View Terminal Tabs Help
apiVersion: apps/v1
kind: Deployment
metadata:
  name: www-deployment
  namespace: cobra
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
        - name: nginx
          image: "nginx:stable"
          ports:
            - containerPort: 80
          volumeMounts:
            - mountPath: /var/log/nginx
              name: logs
          env:
            - name: NGINX_ENTRYPOINT_QUIET_LOGS
              value: "1"
      volumes:
        - name: logs
          emptyDir: {}
```

```
File Edit View Terminal Tabs Help
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-fljd7j            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:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/credible-mite/www.yaml
candidate@node-1:~$ vim ~/credible-mite/www.yaml
candidate@node-1:~$ kubectl apply -f ~/credible-mite/www.yaml
deployment.apps/www-deployment created
candidate@node-1:~$ kubectl get pods -n cobra
NAME                                READY   STATUS             RESTARTS   AGE
www-deployment-d899c6b49-d6ccg       1/1     Running            0           6s
www-deployment-d899c6b49-f796l       0/1     ContainerCreating   0           6s
www-deployment-d899c6b49-ztfcw       0/1     ContainerCreating   0           6s
candidate@node-1:~$ kubectl get deploy -n cobra
NAME    READY   UP-TO-DATE   AVAILABLE   AGE
www-deployment  3/3     3            3           11s
candidate@node-1:~$ kubectl get pods -n cobra
NAME                                READY   STATUS             RESTARTS   AGE
www-deployment-d899c6b49-d6ccg       1/1     Running            0           14s
www-deployment-d899c6b49-f796l       1/1     Running            0           14s
www-deployment-d899c6b49-ztfcw       1/1     Running            0           14s
candidate@node-1:~$
```

QUESTION 3

CORRECT TEXT



Task:

The pod for the Deployment named nosql in the crayfish namespace fails to start because its container runs out of resources.

Update the nosql Deployment so that the Pod:



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:~$ vim ~/chief-cardinal/nosql.yaml
```

```
File Edit View Terminal Tabs Help
```

```
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nosql
  namespace: crayfish
  labels:
    app.kubernetes.io/name: nosql
    app.kubernetes.io/component: backend
spec:
  selector:
    matchLabels:
      app.kubernetes.io/name: nosql
      app.kubernetes.io/component: backend
  replicas: 1
  template:
    metadata:
      labels:
        app.kubernetes.io/name: nosql
        app.kubernetes.io/component: backend
    spec:
      containers:
        - name: mongo
          image: mongo:4.2
          args:
            - --bind_ip
            - 0.0.0.0
          ports:
            - containerPort: 27017
-- INSERT --
```

```
12,1
```

```
All
```

```
File Edit View Terminal Tabs Help
```

```
  - name: mongo
    image: mongo:4.2
    args:
      - --bind_ip
      - 0.0.0.0
    ports:
      - containerPort: 27017
  resources:
    requests:
      memory: "166Mi"
    limits:
      memory: "320Mi"
```

```
:wq
```



```
File Edit View Terminal Tabs Help
To: <any> (traffic not restricted by destination)
Policy Types: Ingress, Egress

Name: default-deny
Namespace: ckad00018
Created on: 2022-09-24 04:27:37 +0000 UTC
Labels: <none>
Annotations: <none>
Spec:
  PodSelector: <none> (Allowing the specific traffic to all pods in this namespace)
  Allowing ingress traffic:
    <none> (Selected pods are isolated for ingress connectivity)
  Not affecting egress traffic
  Policy Types: Ingress
candidate@node-1:~$ kubectl label pod ckad00018-newpod -n ckad00018 web-access=true
pod/ckad00018-newpod labeled
candidate@node-1:~$ kubectl label pod ckad00018-newpod -n ckad00018 db-access=true
pod/ckad00018-newpod labeled
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
candidate@node-1:~$ kubectl apply -f ~/chief-cardinal/nosql.yaml
deployment.apps/nosql configured
candidate@node-1:~$ kubectl get pods -n crayfish
NAME                                READY   STATUS    RESTARTS   AGE
nosql-74cccf7d64-lkqlg             1/1     Running   0           3m2s
candidate@node-1:~$ kubectl get deploy -n crayfish
NAME    READY   UP-TO-DATE   AVAILABLE   AGE
nosql   1/1     1             1           7h16m
candidate@node-1:~$
```

QUESTION 4

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



```
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student@node-1:~$ kubectl create deployment api --image=lfcncf/nginx:1.13.7-alpine --replicas=4
-n kdpd00201 --dry-run=client -o yaml > nginx_deployment.yaml
student@node-1:~$ vim nginx_deployment.yaml
```

```
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: lfcncf/nginx:1.13.7-alpine
        name: nginx
        resources: {}
status: {}

"nginx_deployment.yaml" 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: lfcncf/nginx:1.13.7-alpine
        name: nginx
        ports:
        - containerPort: 8080
      env:
      - name: NGINX_PORT
        value: "8080"
```

```
Readme Web Terminal THE LINUX FOUNDATION

student@node-1:~$ kubectl create deployment api --image=lfcncf/nginx:1.13.7-alpine --replicas=4
-n kdpd00201 --dry-run=client -o yaml > nginx_deployment.yaml
student@node-1:~$ vim nginx_deployment.yaml
student@node-1:~$ kubectl create nginx_deployment.yaml
Error: must specify one of -f and -k

error: unknown command "nginx_deployment.yaml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_deployment.yaml
error: error validating "nginx_deployment.yaml": 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.yaml
student@node-1:~$ kubectl create -f nginx_deployment.yaml
deployment.apps/api created
student@node-1:~$ kubectl get pods -n kdpd00201
NAME                                READY   STATUS    RESTARTS   AGE
api-745677f7dc-7hnmv                1/1     Running   0           13s
api-745677f7dc-9q5vp                1/1     Running   0           13s
api-745677f7dc-fd4gk                1/1     Running   0           13s
api-745677f7dc-mbnpk                1/1     Running   0           13s
student@node-1:~$
```



QUESTION 5

CORRECT TEXT



Context

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

Task

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 lfcncf/redis image with the 3.2 tag

5.

Expose port 6379

A. Please check explanations

B. Place Holder

Correct Answer: A



Readme

Web Terminal

THE **LINUX** FOUNDATION

```
student@node-1:~$ kubectl run cache --image=lfcncf/redis:3.2 --port=6379 -n web
pod/cache created
student@node-1:~$ kubectl get pods -n web
NAME      READY   STATUS             RESTARTS   AGE
cache     0/1     ContainerCreating   0           6s
student@node-1:~$ kubectl get pods -n web
NAME      READY   STATUS    RESTARTS   AGE
cache     1/1     Running   0           9s
student@node-1:~$
```

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