



# CKAD<sup>Q&As</sup>

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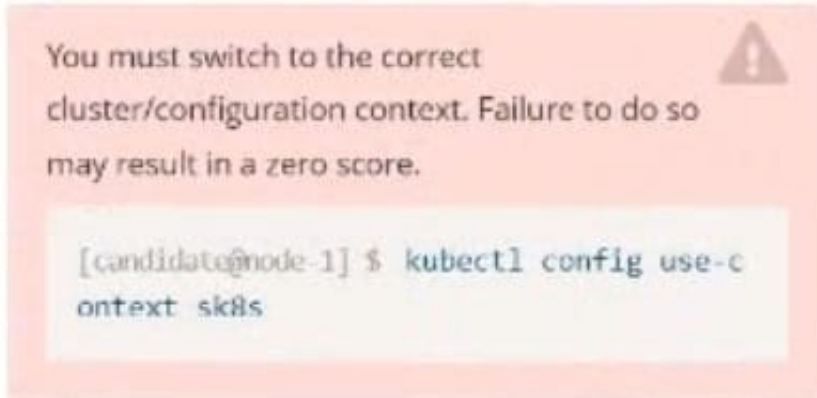
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## QUESTION 1

### 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.

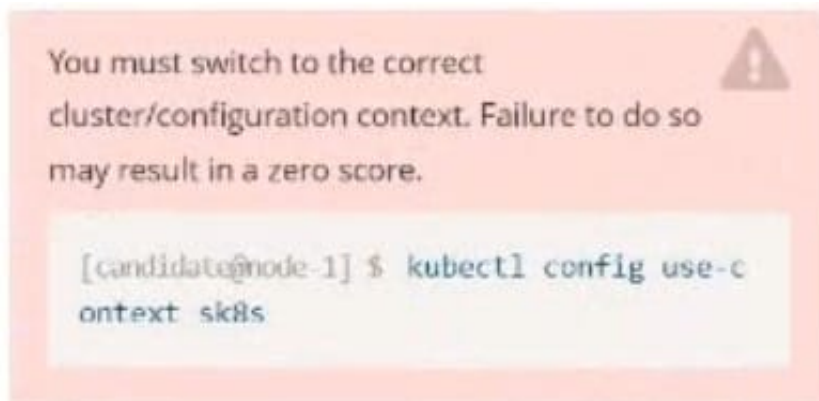
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

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



Task:

Create a Pod named nginx resources in the existing pod resources namespace.

Specify a single container using nginx:stable image.

Specify a resource request of 300m cpus and 1Gi of memory for the Pod's container.

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 run nginx-resources -n pod-resources --image=nginx:stable --dry-run=client -o yaml > hw.yaml
candidate@node-1:~$ vim hw.yaml
```

```
File Edit View Terminal Tabs Help
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-resources
  name: nginx-resources
  namespace: pod-resources
spec:
  containers:
  - image: nginx:stable
    name: nginx-resources
    resources:
      requests:
        cpu: 300m
        memory: "1Gi"
```



```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl run nginx-resources -n pod-resources --image=nginx:stable --dry-run=client -o yaml > hw.yaml
candidate@node-1:~$ vim hw.yaml
candidate@node-1:~$ kubectl create -f hw.yaml
pod/nginx-resources created
candidate@node-1:~$ kubectl get pods -n pod-resources
NAME                READY   STATUS    RESTARTS   AGE
nginx-resources     1/1     Running   0           13s
candidate@node-1:~$ kubectl describe pods -n pod-resources
```

```
File Edit View Terminal Tabs Help
memory: 1Gi
Environment: <none>
Mounts:
  /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-dmx9j (ro)
Conditions:
  Type           Status
  Initialized     True
  Ready          True
  ContainersReady True
  PodScheduled   True
Volumes:
  kube-api-access-dmx9j:
    Type: Projected (a volume that contains injected data from multiple sources)
    TokenExpirationSeconds: 3607
    ConfigMapName: kube-root-ca.crt
    ConfigMapOptional: <nil>
    DownwardAPI: true
QoS Class:           Burstable
Node-Selectors:      <none>
Tolerations:         node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
                     node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
  Type     Reason      Age   From          Message
  ----     -
  Normal   Scheduled   20s   default-scheduler   Successfully assigned pod-resources/nginx-resources to k8s-node-0
  Normal   Pulling    19s   kubelet        Pulling image "nginx:stable"
  Normal   Pulled     13s   kubelet        Successfully pulled image "nginx:stable" in 6.55664052s
  Normal   Created    13s   kubelet        Created container nginx-resources
  Normal   Started    12s   kubelet        Started container nginx-resources
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 >
```

### QUESTION 3

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

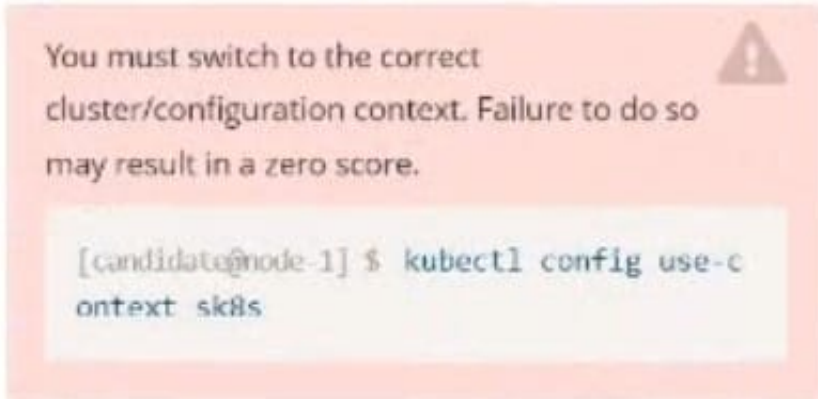
B. Place Holder

Correct Answer: A

```
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:~$
```

#### QUESTION 4

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



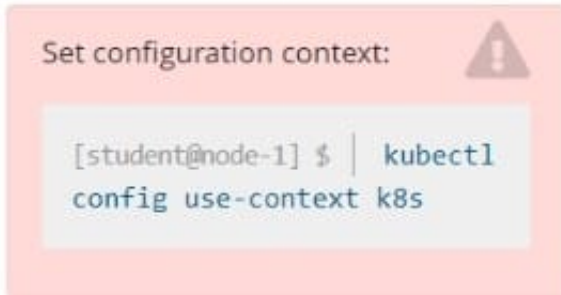


```
File Edit View Terminal Tabs Help
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: expose
  name: expose
  namespace: ckad00014
spec:
  replicas: 6
  selector:
    matchLabels:
      app: expose
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: expose
    spec:
      containers:
      - image: lfccncf/nginx:1.13.7
        name: nginx
        ports:
        - containerPort: 8001
        env:
        - name: NGINX_PORT
          value: "8001"
```

```
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 5**

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  
Ifccncf/busybox:1 container, named logger-dev
  3.  
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
  4.  
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

A terminal window from The Linux Foundation. It shows the execution of a kubectl command to create a deployment and then opening a vim editor to edit the deployment file.

```
student@node-1:~$ kubectl create deployment deployment-xyz --image=lfccncf/busybox:1 --dry-run=client -o yaml > deployment_xyz.yml  
student@node-1:~$ vim deployment_xyz.yml
```

A terminal window from The Linux Foundation showing the content of the deployment manifest file created in the previous screenshot.

```
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: lfccncf/busybox:1  
        name: busybox  
        resources: {}  
status: {}  
~  
~  
"deployment_xyz.yml" 24L, 434C 3,1 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: lfcncf/busybox:1
        name: logger-dev
        volumeMounts:
        - name: myvoll
          mountPath: /tmp/log
      - image: lfcncf/Fluentd:v0.12
        name: adapter-zen
3 lines yanked
27,22 Bot

```

```

replicas: 1
selector:
  matchLabels:
    app: deployment-xyz
template:
  metadata:
    labels:
      app: deployment-xyz
  spec:
    volumes:
    - name: myvoll
      emptyDir: {}
    containers:
    - image: lfcncf/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: lfcncf/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
29,83 Bot

```

```

metadata:
  labels:
    app: deployment-xyz
spec:
  volumes:
  - name: myvoll
    emptyDir: {}
  - name: myvol2
    configMap:
      name: logconf
  containers:
  - image: lfcncf/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: lfcncf/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
37,33 Bot

```

```

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:~$

```



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