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**Exam** : **CKA**

**Title** : Certified Kubernetes  
Administrator

**Version** : DEMO

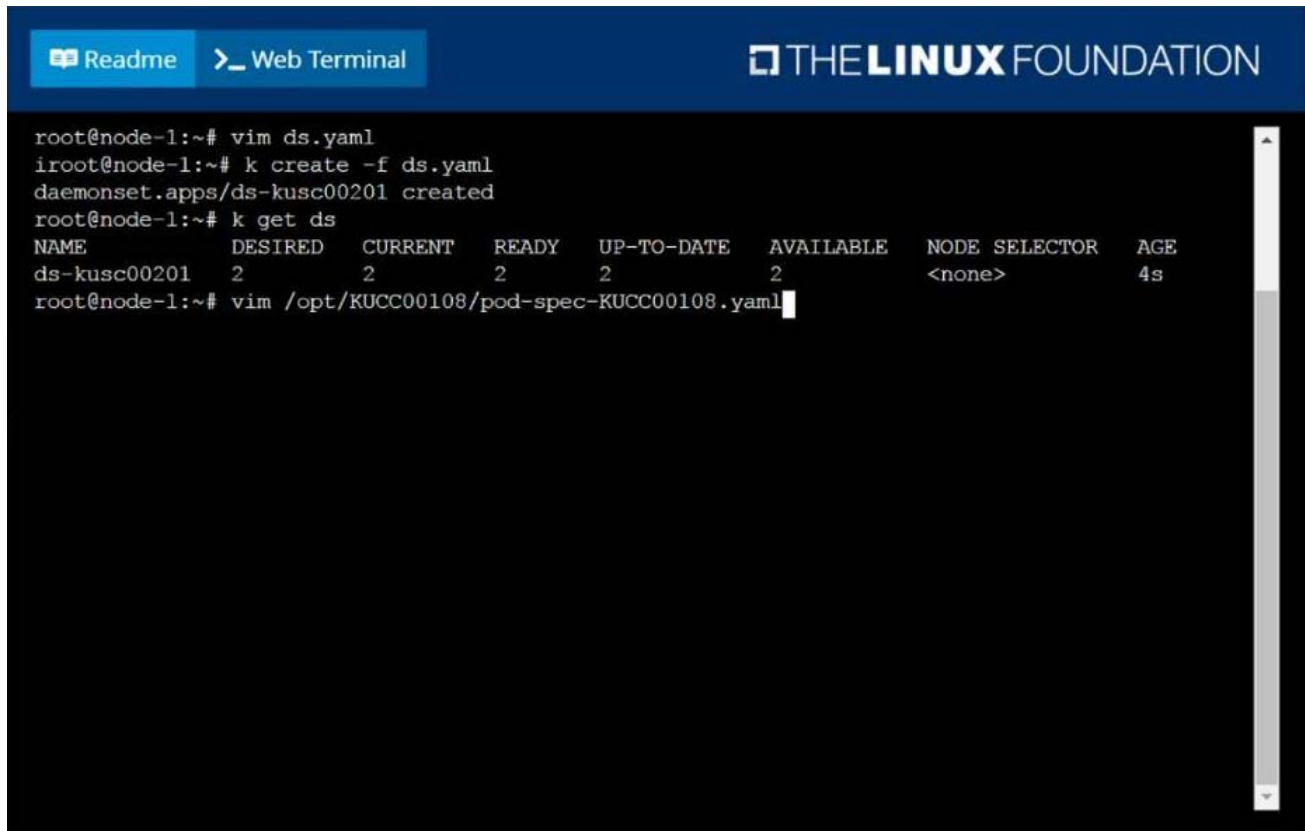
## 1.CORRECT TEXT

Perform the following tasks:

- ⇒ Add an init container to hungry-bear (which has been defined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)
- ⇒ The init container should create an empty file named/workdir/calm.txt
- ⇒ If /workdir/calm.txt is not detected, the pod should exit
- ⇒ Once the spec file has been updated with the init container definition, the pod should be created

**Answer:**

solution



The screenshot shows a web terminal interface with a dark background. At the top, there are two buttons: 'Readme' and 'Web Terminal'. The terminal content is as follows:

```
root@node-1:~# vim ds.yaml
iroot@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
NAME                DESIRED   CURRENT   READY   UP-TO-DATE   AVAILABLE   NODE SELECTOR   AGE
ds-kusc00201        2         2         2       2             2           <none>          4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
```

Readme Web Terminal THE LINUX FOUNDATION

```
apiVersion: v1
kind: Pod
metadata:
  name: hungry-bear
spec:
  volumes:
  - name: workdir
    emptyDir:
  containers:
  - name: checker
    image: alpine
    command: ["/bin/sh", "-c", "if [ -f /workdir/calm.txt ];
              then sleep 100000; else exit 1; fi"]
    volumeMounts:
  - name: workdir
    mountPath: /workdir
  initContainers:
  - name: create
    image: alpine
    command: ["/bin/sh", "-c", "touch /workdir/calm.txt"]
    volumeMounts:
  - name: workdir
    mountPath: /workdir
:WC
```

Readme Web Terminal THE LINUX FOUNDATION

```
root@node-1:~# vim ds.yaml
iroot@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
NAME           DESIRED   CURRENT   READY   UP-TO-DATE   AVAILABLE   NODE SELECTOR   AGE
ds-kusc00201   2         2         2       2             2           <none>          4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
root@node-1:~# k create -f /opt/KUCC00108/pod-spec-KUCC00108.yaml
pod/hungry-bear created
root@node-1:~#
```

## 2.CORRECT TEXT

Create a deployment spec file that will:

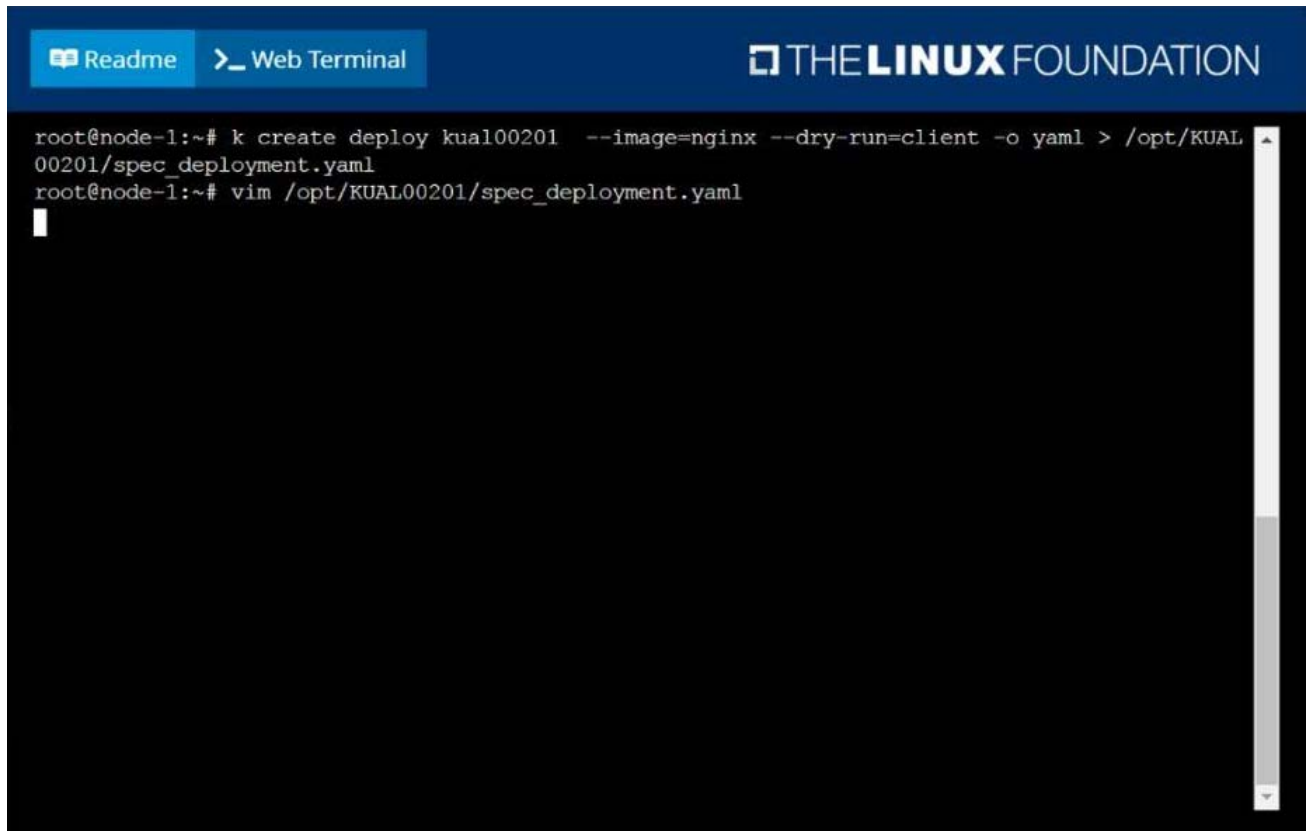
- ☞ Launch 7 replicas of the nginx Image with the labelapp\_runtime\_stage=dev
- ☞ deployment name: kual00201

Save a copy of this spec file to /opt/KUAL00201/spec\_deployment.yaml  
(or /opt/KUAL00201/spec\_deployment.json).

When you are done, clean up (delete) any new Kubernetes API object that you produced during this task.

**Answer:**

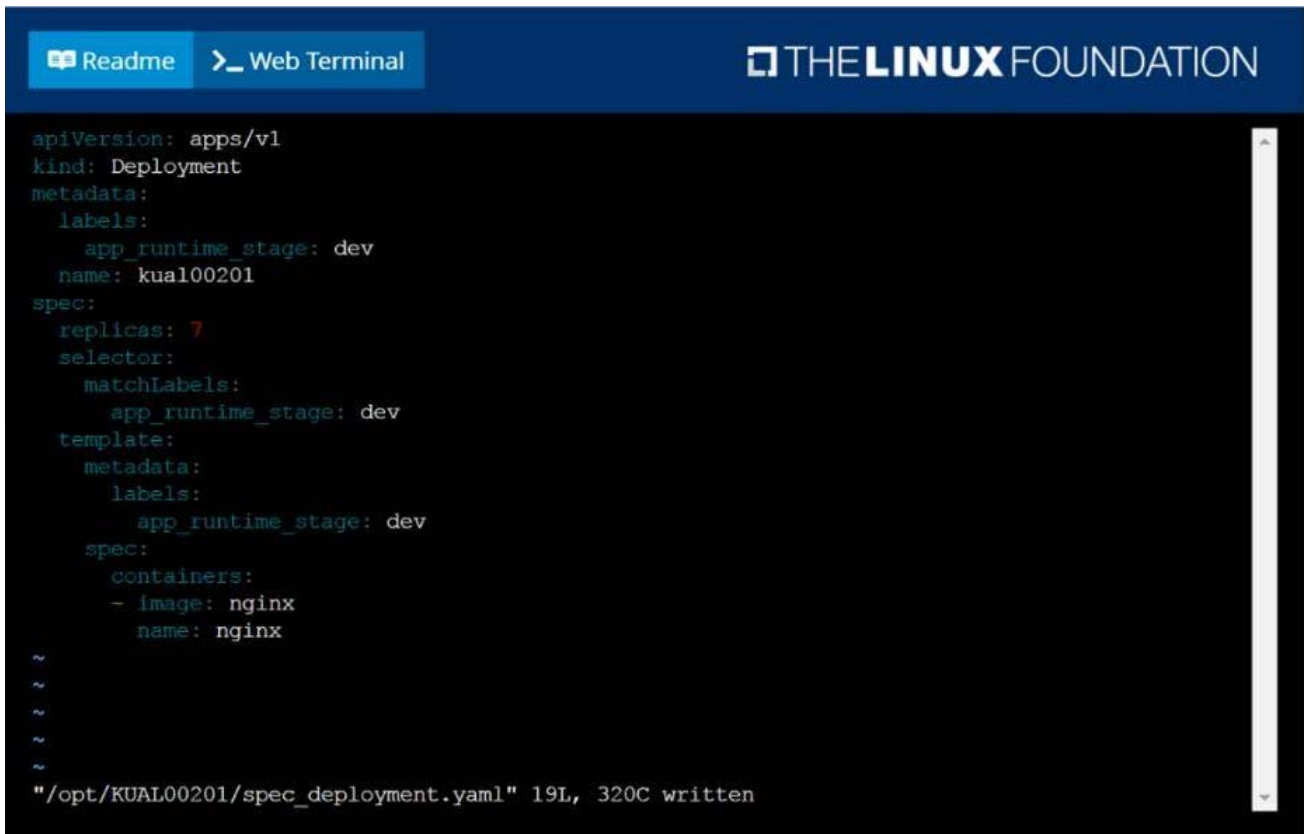
solution



The screenshot shows a web terminal interface with a dark blue header. On the left, there are two buttons: 'Readme' and 'Web Terminal'. On the right, the logo for 'THE LINUX FOUNDATION' is displayed. The terminal window shows the following commands and output:

```
root@node-1:~# k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL00201/spec_deployment.yaml
root@node-1:~# vim /opt/KUAL00201/spec_deployment.yaml
```

The terminal output is currently blank, with a cursor visible on the second line.



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'. To the right of these buttons is the logo for 'THE LINUX FOUNDATION'. The main area of the terminal displays a YAML manifest for a Kubernetes Deployment. The manifest includes fields for apiVersion, kind, metadata (with labels for app\_runtime\_stage and name), spec (with replicas, selector, and template), and a list of containers (nginx). The terminal also shows a prompt character '~' and a message at the bottom: '/opt/KUAL00201/spec\_deployment.yaml' 19L, 320C written.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app_runtime_stage: dev
  name: kual00201
spec:
  replicas: 7
  selector:
    matchLabels:
      app_runtime_stage: dev
  template:
    metadata:
      labels:
        app_runtime_stage: dev
    spec:
      containers:
      - image: nginx
        name: nginx
~
~
~
~
~
"/opt/KUAL00201/spec_deployment.yaml" 19L, 320C written
```

### 3.CORRECT TEXT

From the pod label name=cpu-utilizer, find pods running high CPU workloads and write the name of the pod consuming most CPU to the file /opt/KUTR00102/KUTR00102.txt (which already exists).

**Answer:**

solution



⇒ Name: super-secret

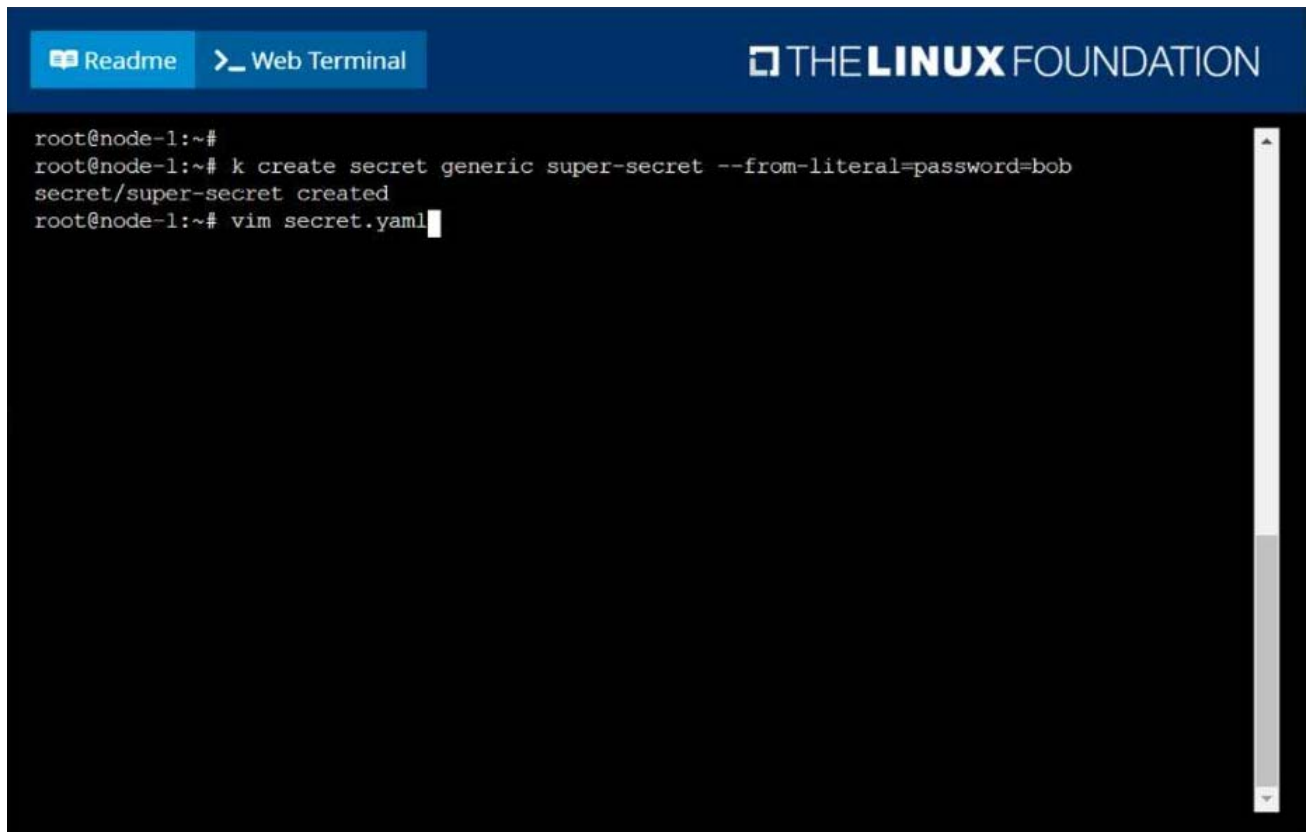
⇒ password: bob

Create a pod named pod-secrets-via-file, using the redis Image, which mounts a secret named super-secret at /secrets.

Create a second pod named pod-secrets-via-env, using the redis Image, which exports password as CONFIDENTIAL

**Answer:**

solution



The screenshot shows a web terminal interface with a dark blue header. On the left, there are two buttons: 'Readme' and 'Web Terminal'. On the right, the 'THE LINUX FOUNDATION' logo is displayed. The terminal window shows the following text:

```
root@node-1:~#  
root@node-1:~# k create secret generic super-secret --from-literal=password=bob  
secret/super-secret created  
root@node-1:~# vim secret.yaml
```



Readme Web Terminal THE LINUX FOUNDATION

```

apiVersion: v1
kind: Pod
metadata:
  name: pod-secrets-via-file
spec:
  containers:
  - name: redis
    image: redis
    volumeMounts:
    - name: foo
      mountPath: "/secrets"
  volumes:
  - name: foo
    secret:
      secretName: super-secret
~
~
~
~
~
~
~
~
~
~
:W

```

Readme Web Terminal THE LINUX FOUNDATION

```

root@node-1:~# k create -f secret.yaml
pod/pod-secrets-via-file created
root@node-1:~# vim secret1.yaml
root@node-1:~# k create -f secret1.yaml
pod/pod-secrets-via-env created
root@node-1:~# k get po
NAME                                READY   STATUS    RESTARTS   AGE
cpu-utilizer-98b9se                 1/1    Running   0           6h25m
cpu-utilizer-ab2d3s                 1/1    Running   0           6h25m
cpu-utilizer-kipb9a                 1/1    Running   0           6h25m
ds-kusc00201-2r2k9                 1/1    Running   0           40m
ds-kusc00201-hzm9q                 1/1    Running   0           40m
foo                                  1/1    Running   0           6h28m
front-end                           1/1    Running   0           6h27m
hungry-bear                         1/1    Running   0           36m
kucc8                                3/3    Running   0           34m
nginx-app-848cfcf495-9prjh         1/1    Running   0           19m
nginx-app-848cfcf495-gl2kh         1/1    Running   0           19m
nginx-app-848cfcf495-pg2c8         1/1    Running   0           19m
nginx-kusc00101                    1/1    Running   0           26m
pod-secrets-via-env                 1/1    Running   0           4s
pod-secrets-via-file                1/1    Running   0           106s
webserver-84c55967f4-qzjcv         1/1    Running   0           6h43m
webserver-84c55967f4-t479l         1/1    Running   0           6h43m
root@node-1:~#

```

5.CORRECT TEXT

Score: 7%

```
Set configuration context:   
  
[student@node-1] $ | kube  
ctl config use-context k  
8s
```

**Task**

Create a new nginx Ingress resource as follows:

- Name: ping
- Namespace: ing-internal
- Exposing service hi on path /hi using service port 5678

```
The availability of service hi   
can be checked using the  
following command, which  
should return hi :  
  
[student@node-1] $ | curl  
-kL <INTERNAL_IP>/hi
```

**Answer:**

Solution:

```
vi ingress.yaml  
#  
apiVersion: networking.k8s.io/v1  
kind: Ingress metadata: name: ping  
namespace: ing-internal  
spec:  
rules:  
- http:  
paths:  
- path: /hi pathType: Prefix backend: service: name: hi  
port:  
number: 5678  
#  
kubectl create -f ingress.yaml
```