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Exam : **CKA**

Title : Certified Kubernetes
Administrator

Version : DEMO

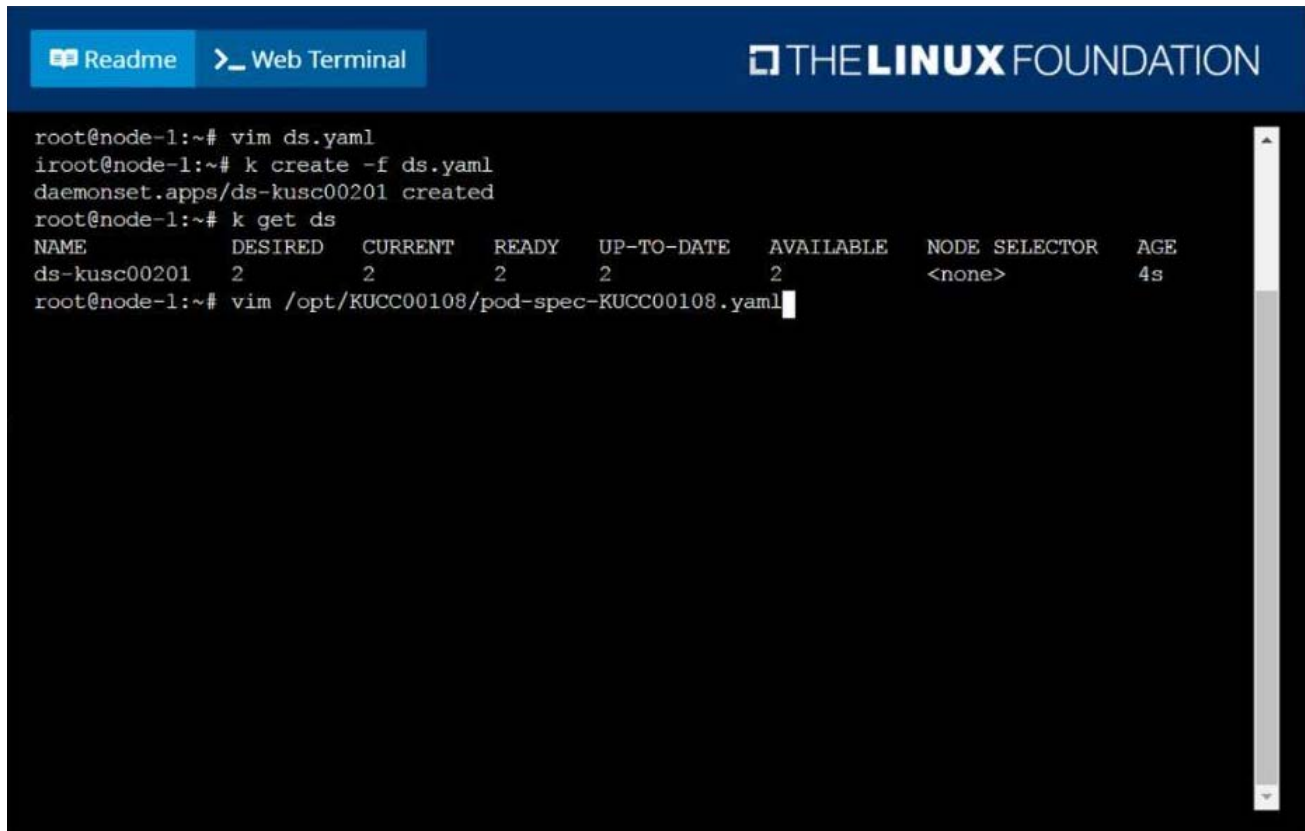
1.CORRECT TEXT

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

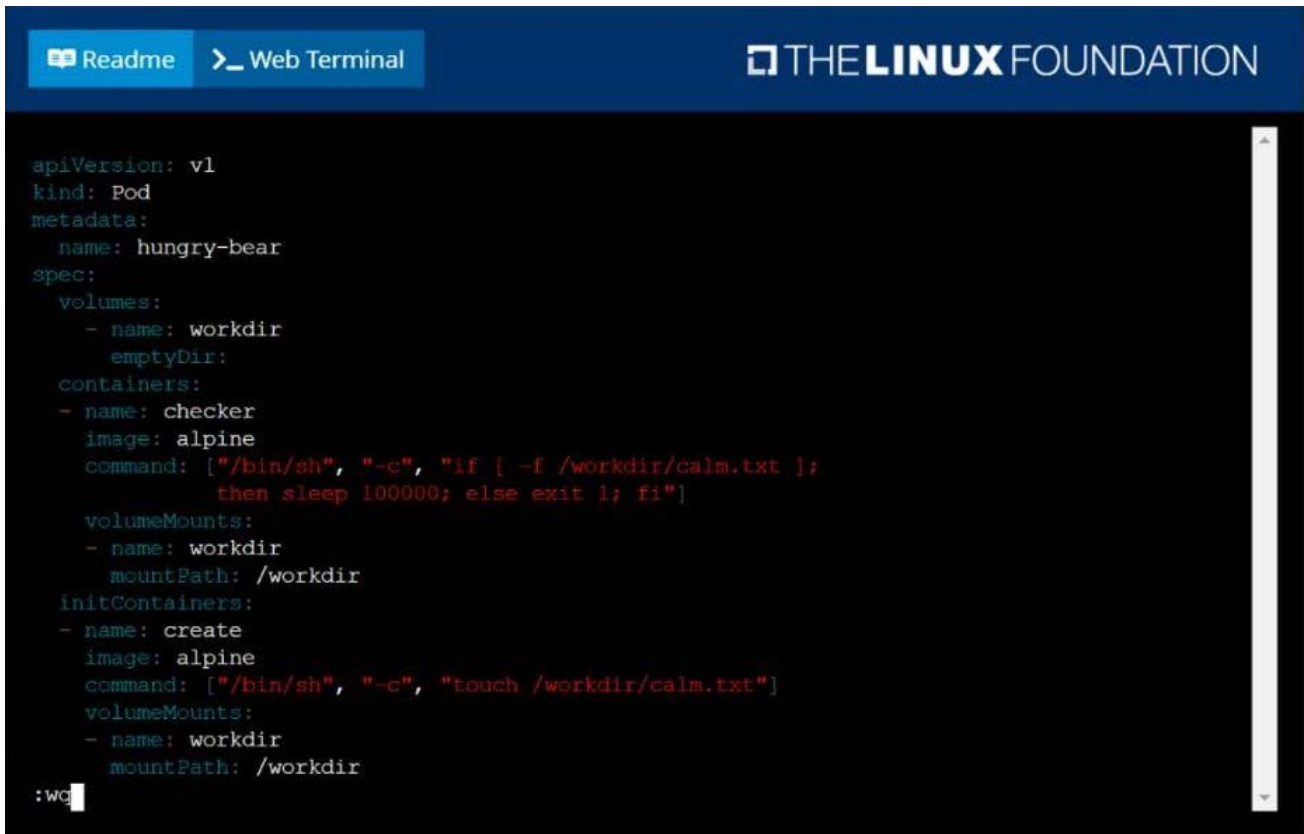


The screenshot shows a web terminal interface with a dark background. At the top, there are two buttons: 'Readme' and 'Web Terminal'. The terminal content is as follows:

```
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
```

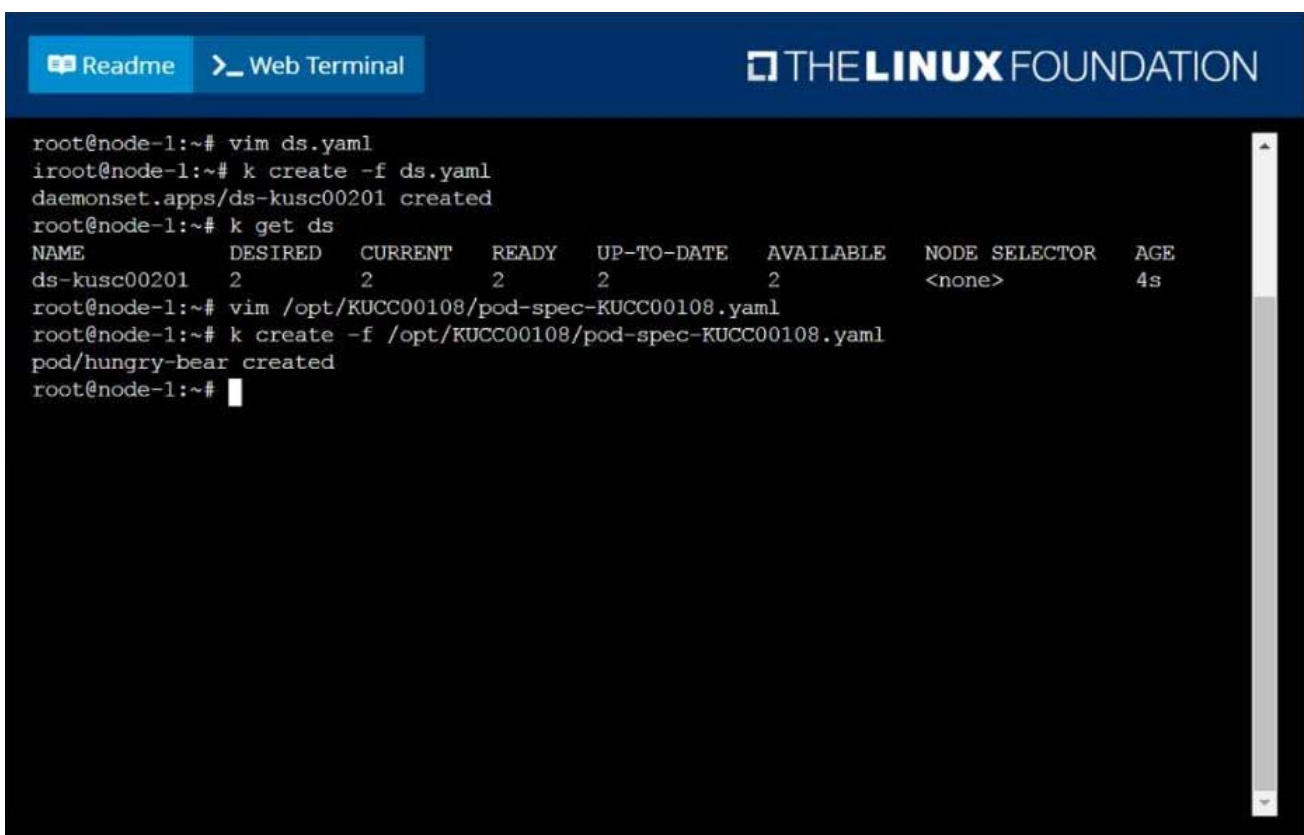
NAME	DESIRED	CURRENT	READY	UP-TO-DATE	AVAILABLE	NODE SELECTOR	AGE
ds-kusc00201	2	2	2	2	2	<none>	4s

```
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
```



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 main area contains a JSON configuration for a Kubernetes pod named 'hungry-bear'. The configuration includes metadata, a spec with volumes, containers, and initContainers. The 'checker' container runs an Alpine image with a command that checks for a file and sleeps if it exists. The 'create' container runs an Alpine image with a command that creates a file. A cursor is visible at the end of the configuration.

```
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
```



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 main area shows a series of terminal commands and their outputs. The commands include creating a daemonset, listing it, and creating a pod. The output shows the daemonset 'ds-kusc00201' is created and listed with a table of status information. The pod 'pod/hungry-bear' is also created.

```
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:

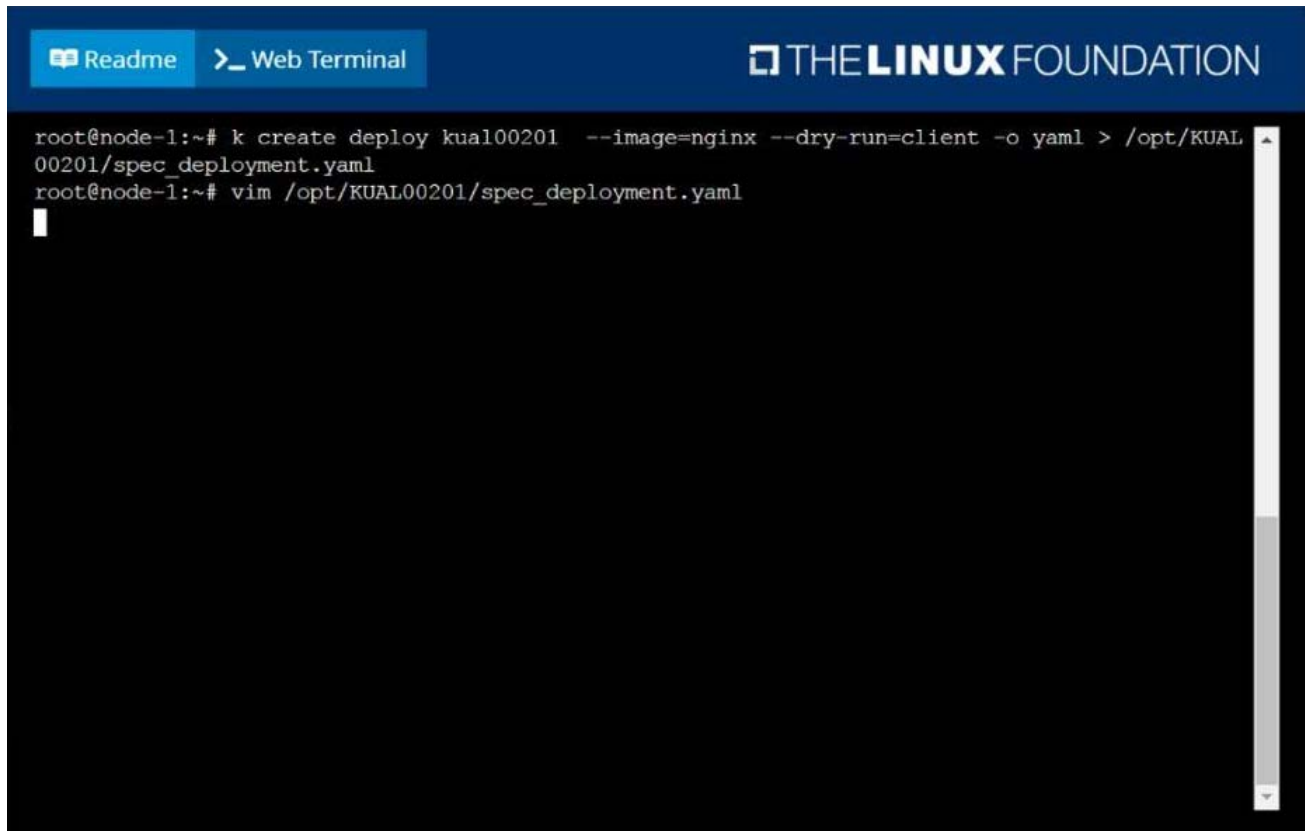
- ☞ Launch 7 replicas of the nginx Image with the labelapp_runtime_stage=dev
- ☞ deployment name: kual00201

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:

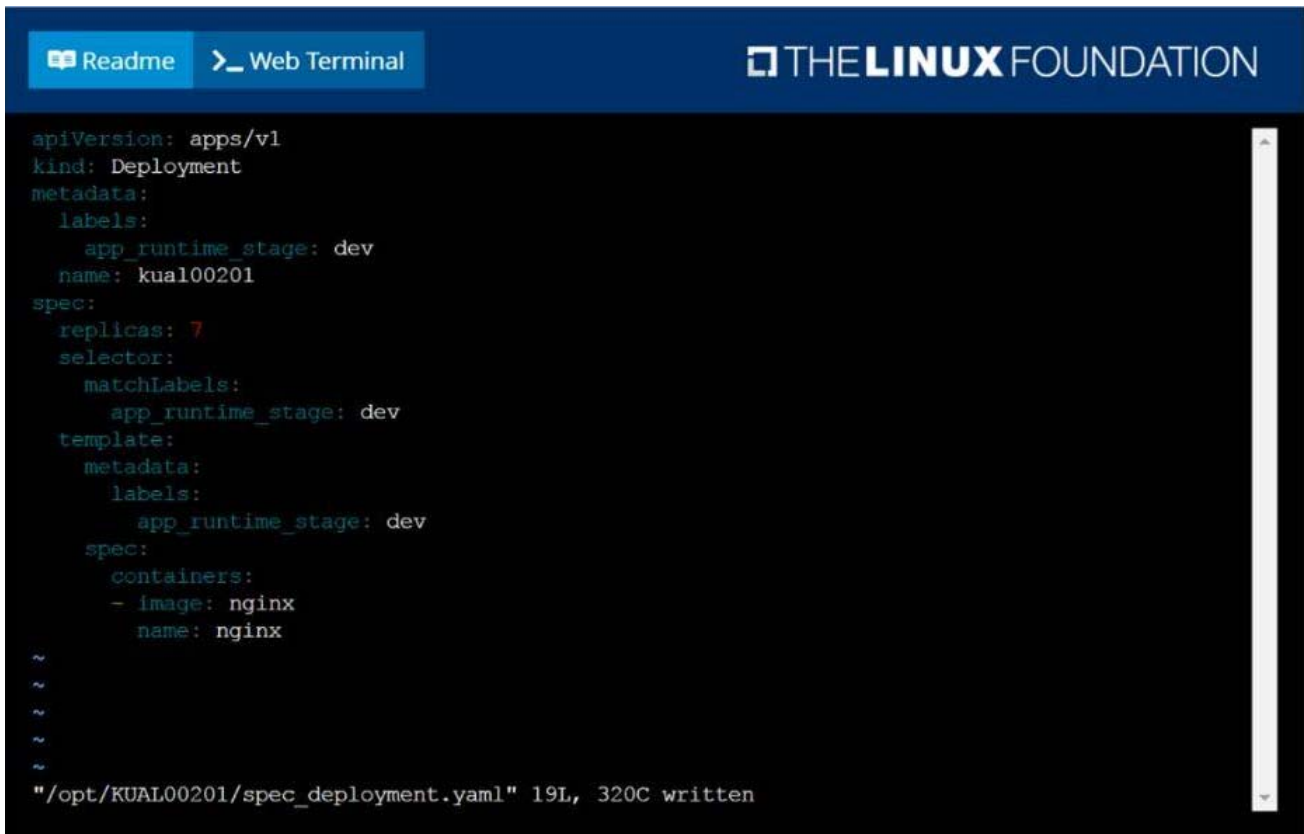
solution



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 content 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 shows a cursor on the second line, indicating the vim editor is open.



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. 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

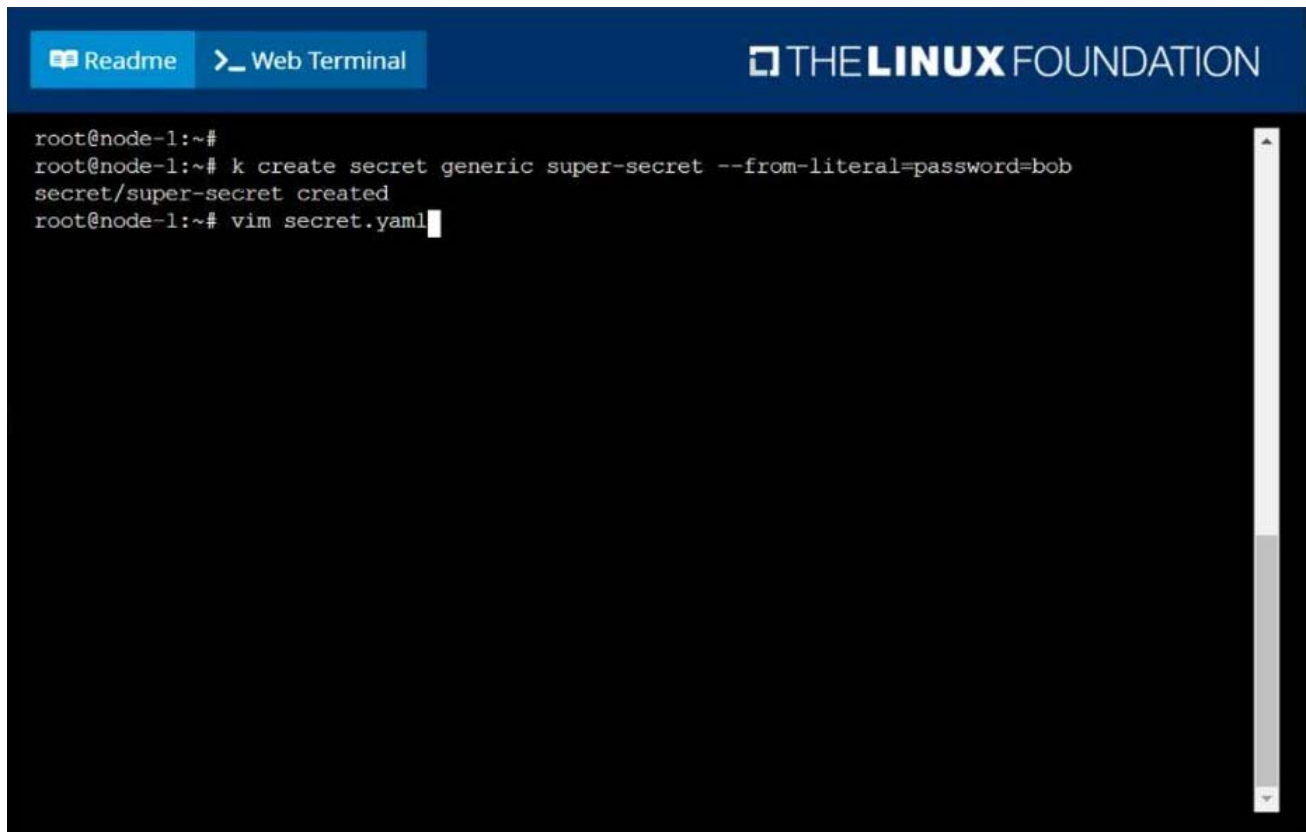
⇒ password: bob

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



```
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
```