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QUESTION 1

SIMULATION

Create a deployment as follows:

1.

Name: nginx-app

2.

Using container nginx with version 1.11.10-alpine

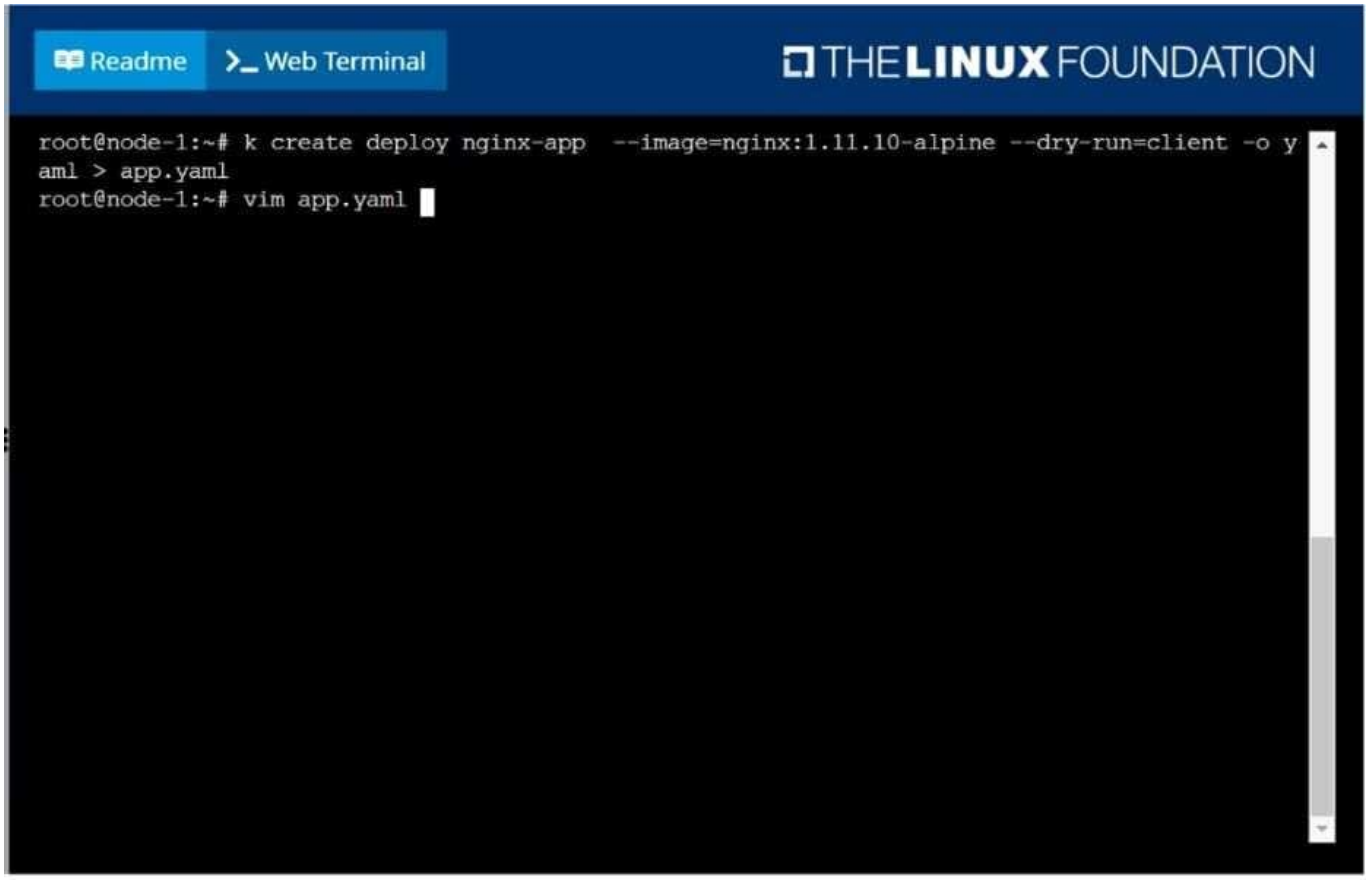
3.

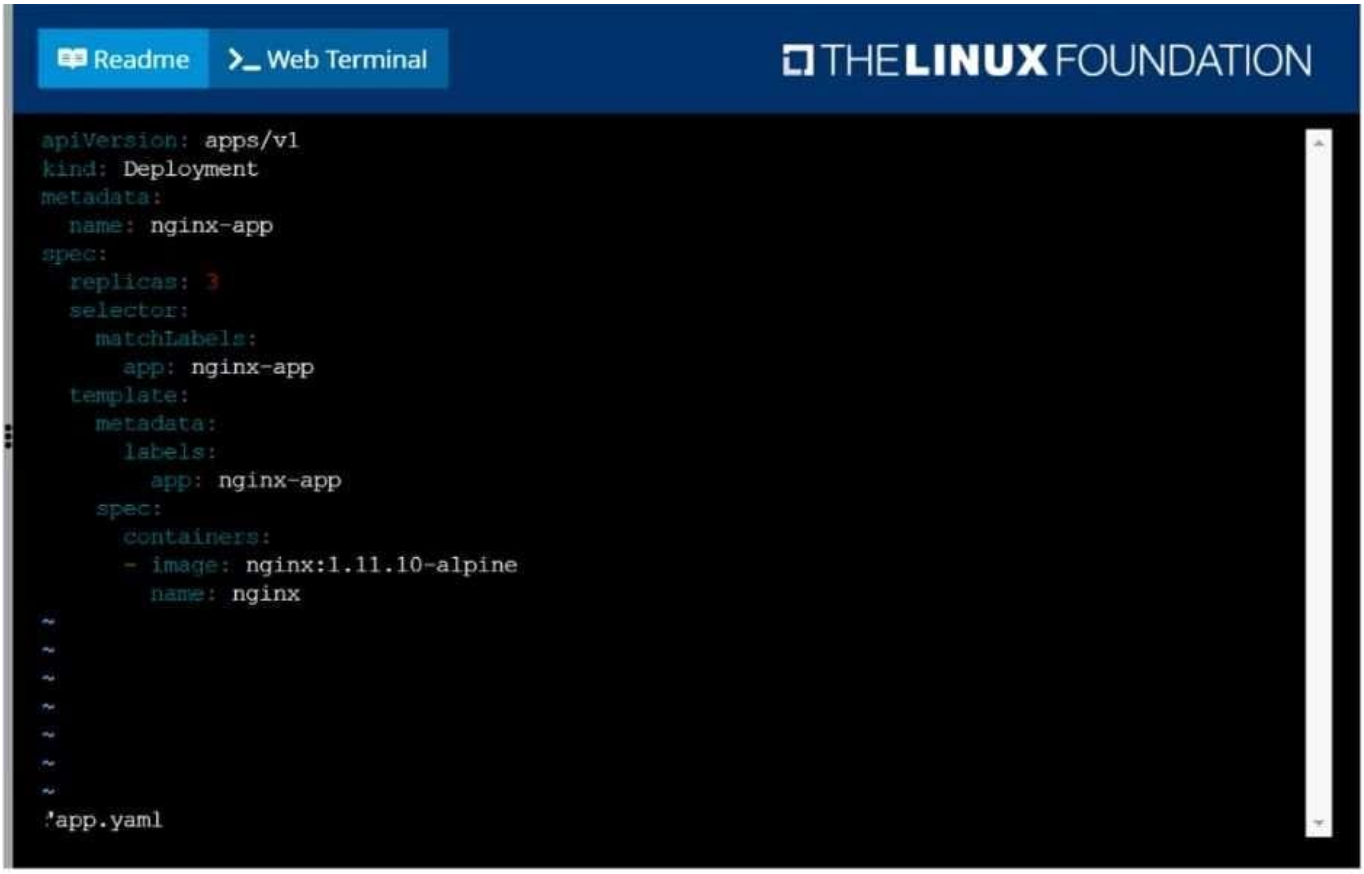
The deployment should contain 3 replicas

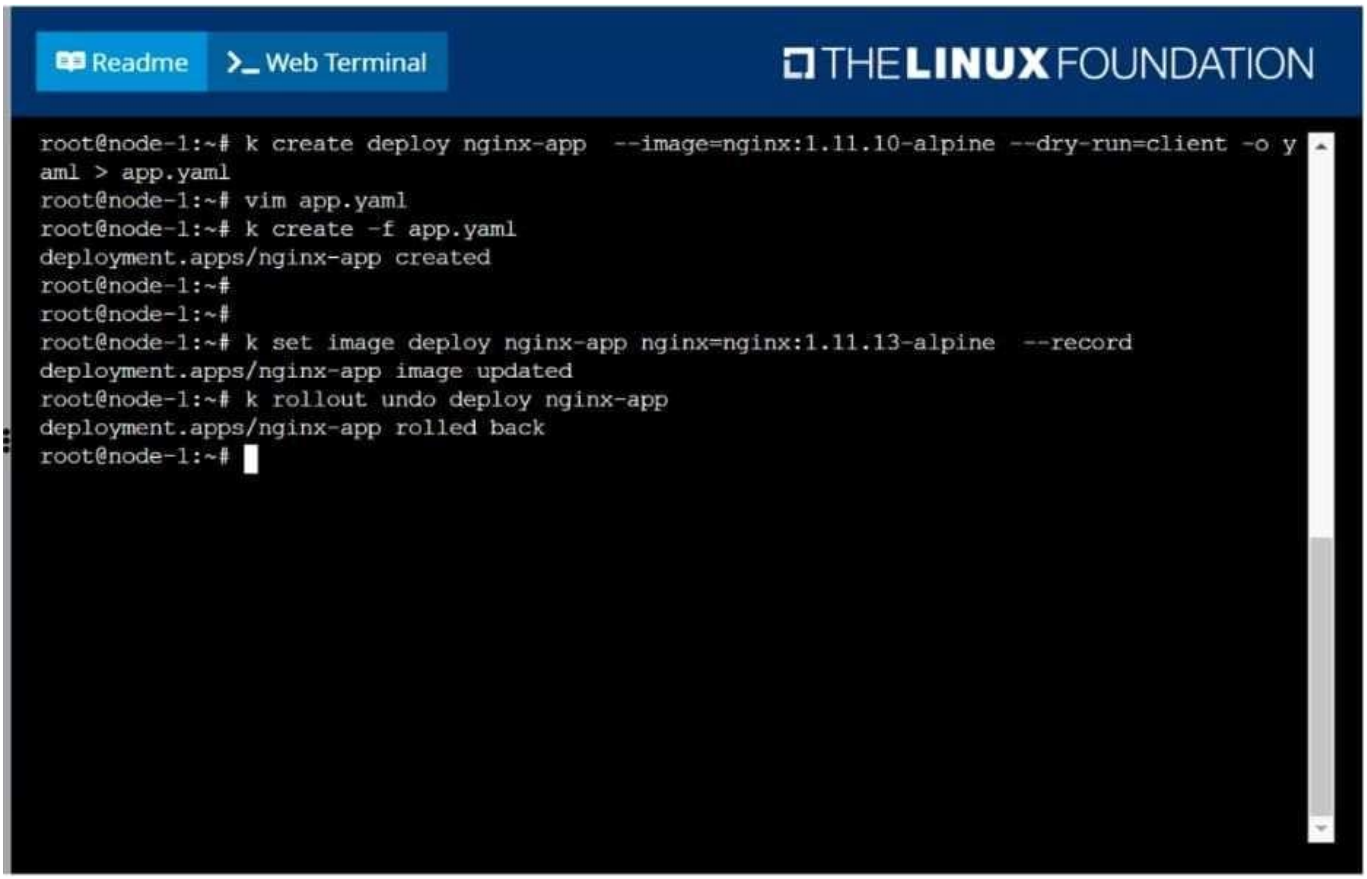
Next, deploy the application with new version 1.11.13-alpine, by performing a rolling update. Finally, rollback that update to the previous version 1.11.10-alpine.

Correct Answer: Check the answer in explanation.

Solution




Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: apps/v1
kind: Deployment
metadata:
name: nginx-app
spec:
replicas: 3
selector:
matchLabels:
app: nginx-app
template:
metadata:
labels:
app: nginx-app
spec:
containers:
- image: nginx:1.11.10-alpine
name: nginx
~
~
~
~
~
~
~
'app.yaml


Readme
Web Terminal
THE LINUX FOUNDATION
root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o y
aml > app.yaml
root@node-1:~# vim app.yaml
root@node-1:~# k create -f app.yaml
deployment.apps/nginx-app created
root@node-1:~#
root@node-1:~#
root@node-1:~# k set image deploy nginx-app nginx=nginx:1.11.13-alpine --record
deployment.apps/nginx-app image updated
root@node-1:~# k rollout undo deploy nginx-app
deployment.apps/nginx-app rolled back
root@node-1:~#

QUESTION 2

SIMULATION

Create a deployment spec file that will:

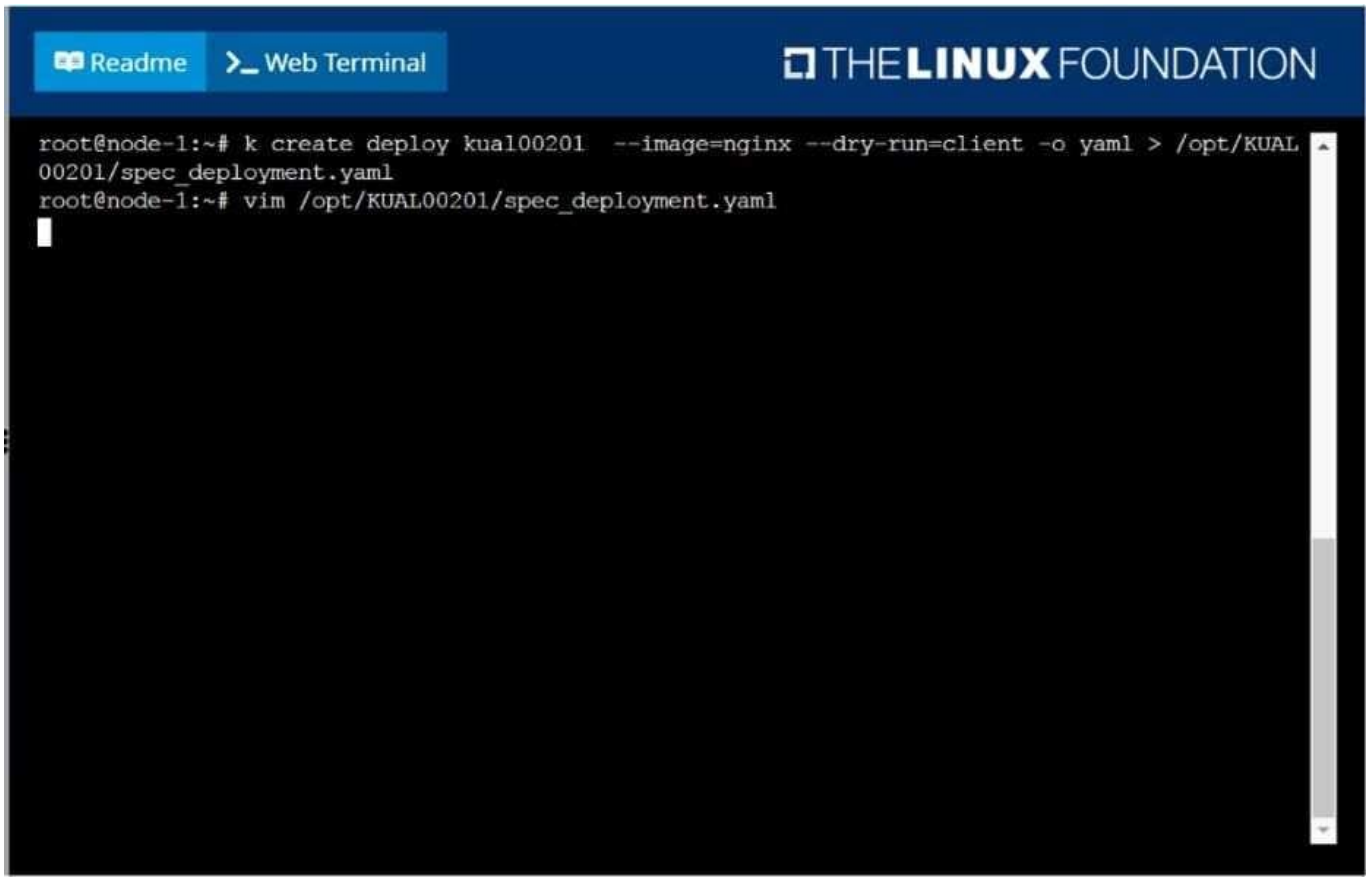
Launch 7 replicas of the nginx Image with the label app_runtime_stage=dev

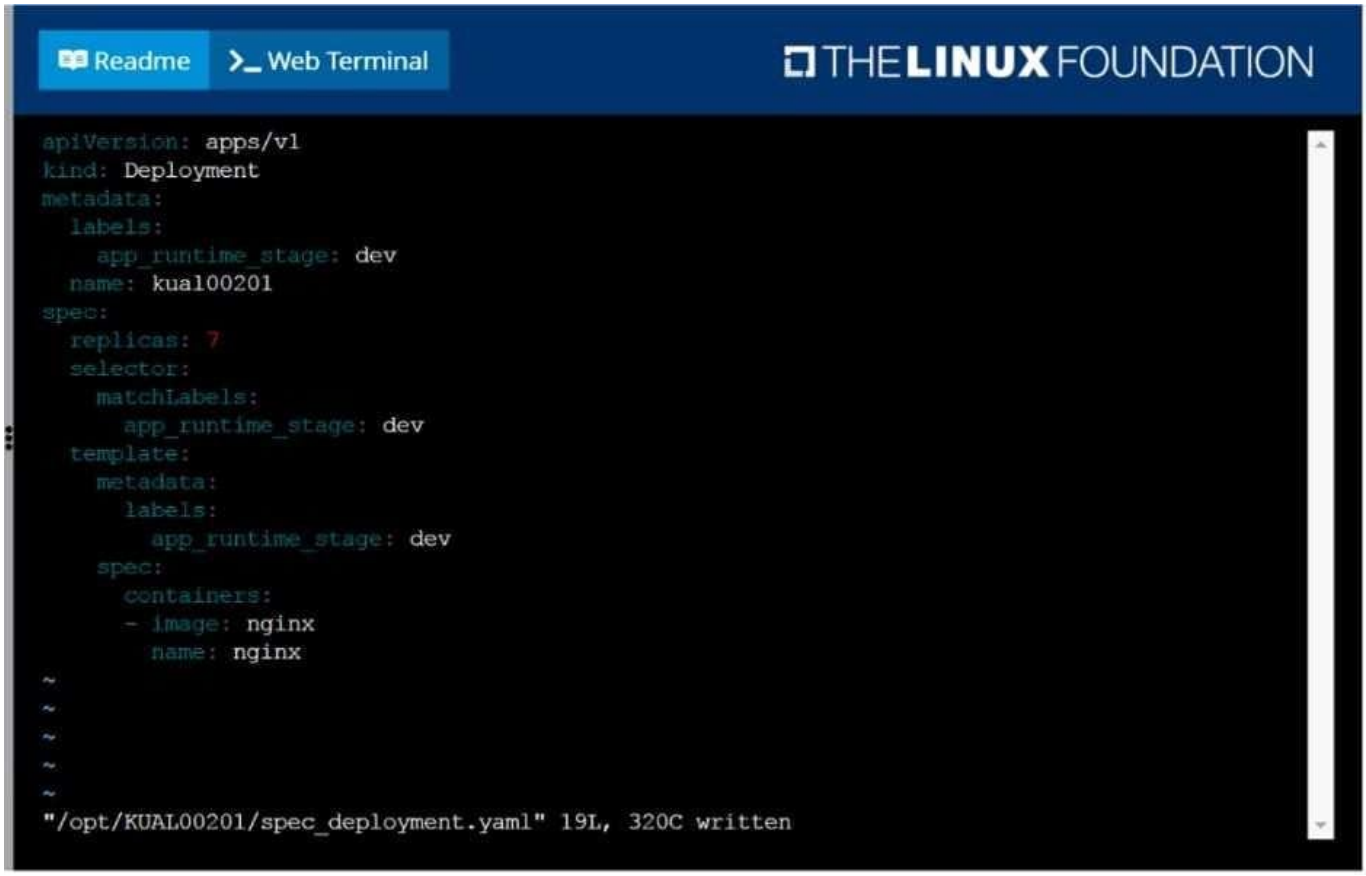
deployment name: kual00201

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.

Correct Answer: Check the answer in explanation.





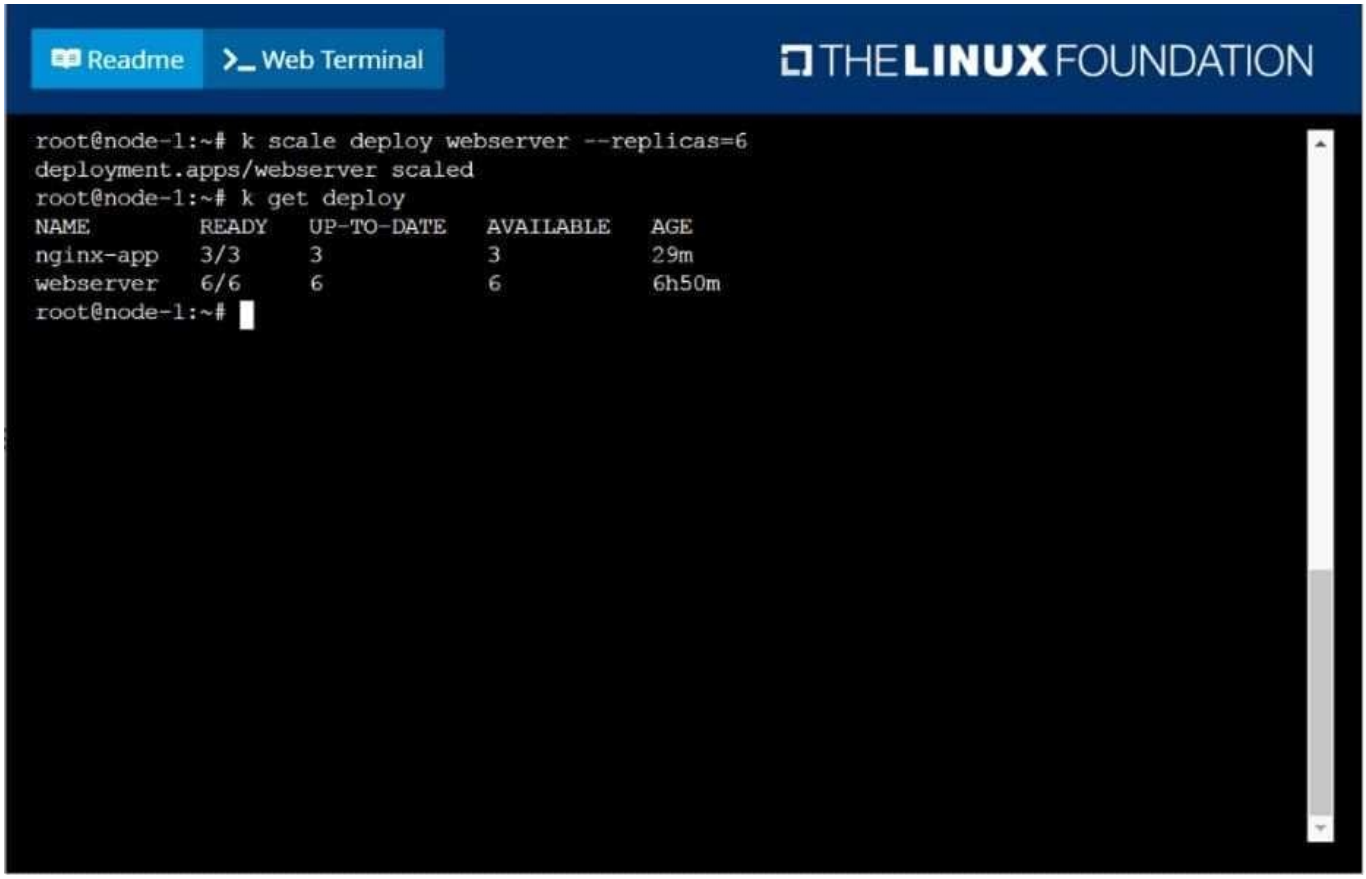
QUESTION 3

SIMULATION

Scale the deployment webserver to 6 pods.

Correct Answer: Check the answer in explanation.

Solution

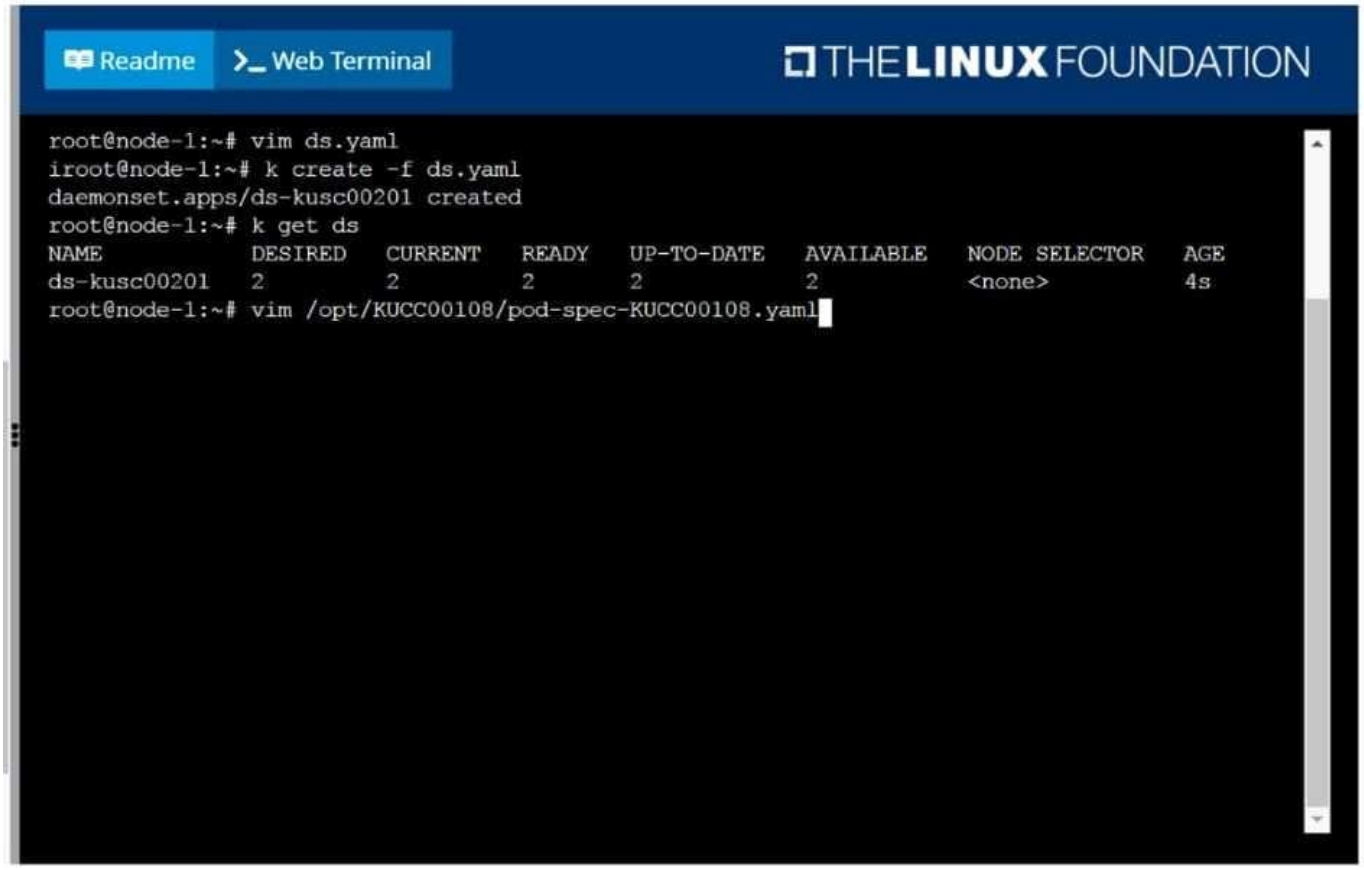


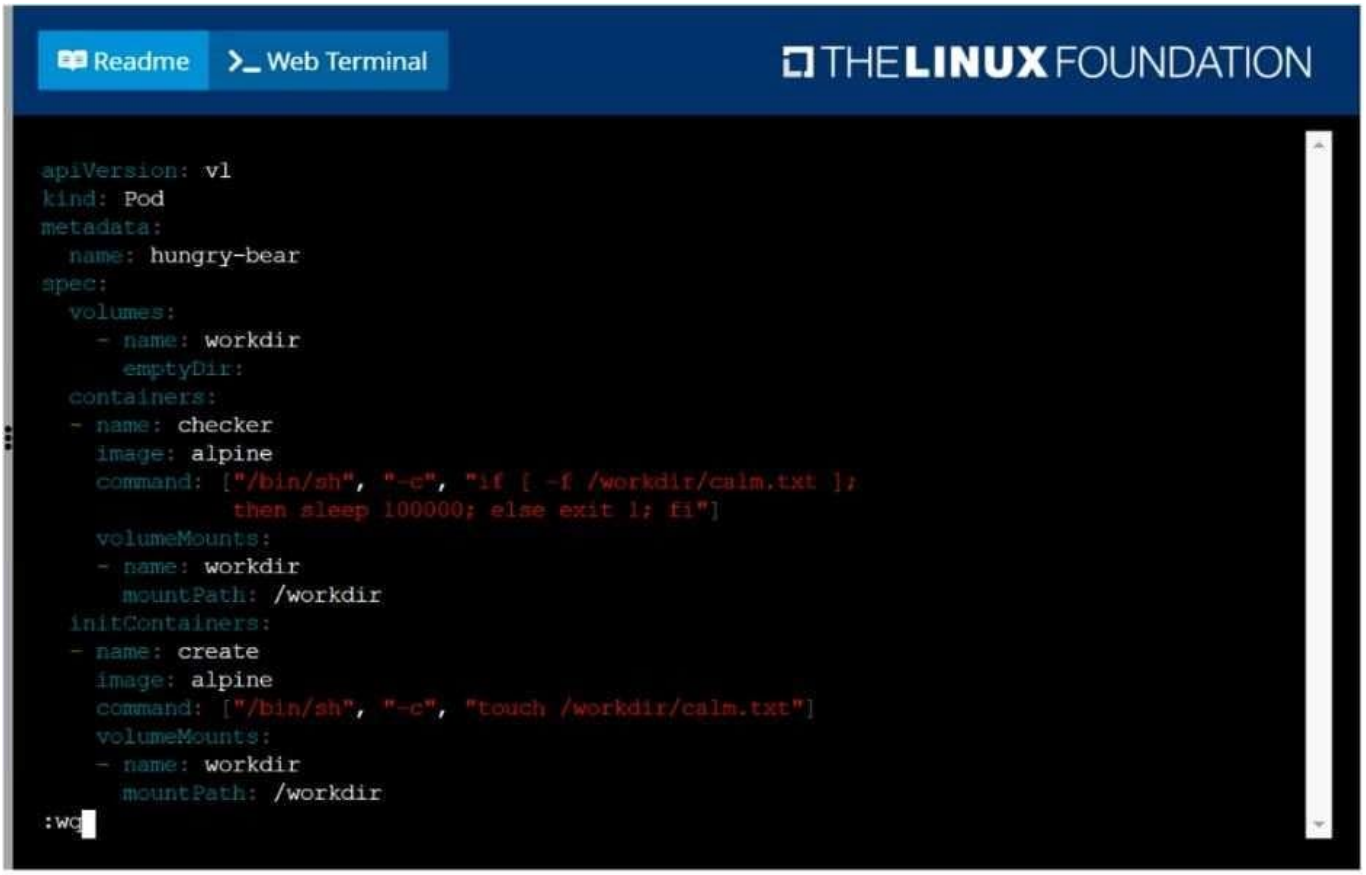
QUESTION 4

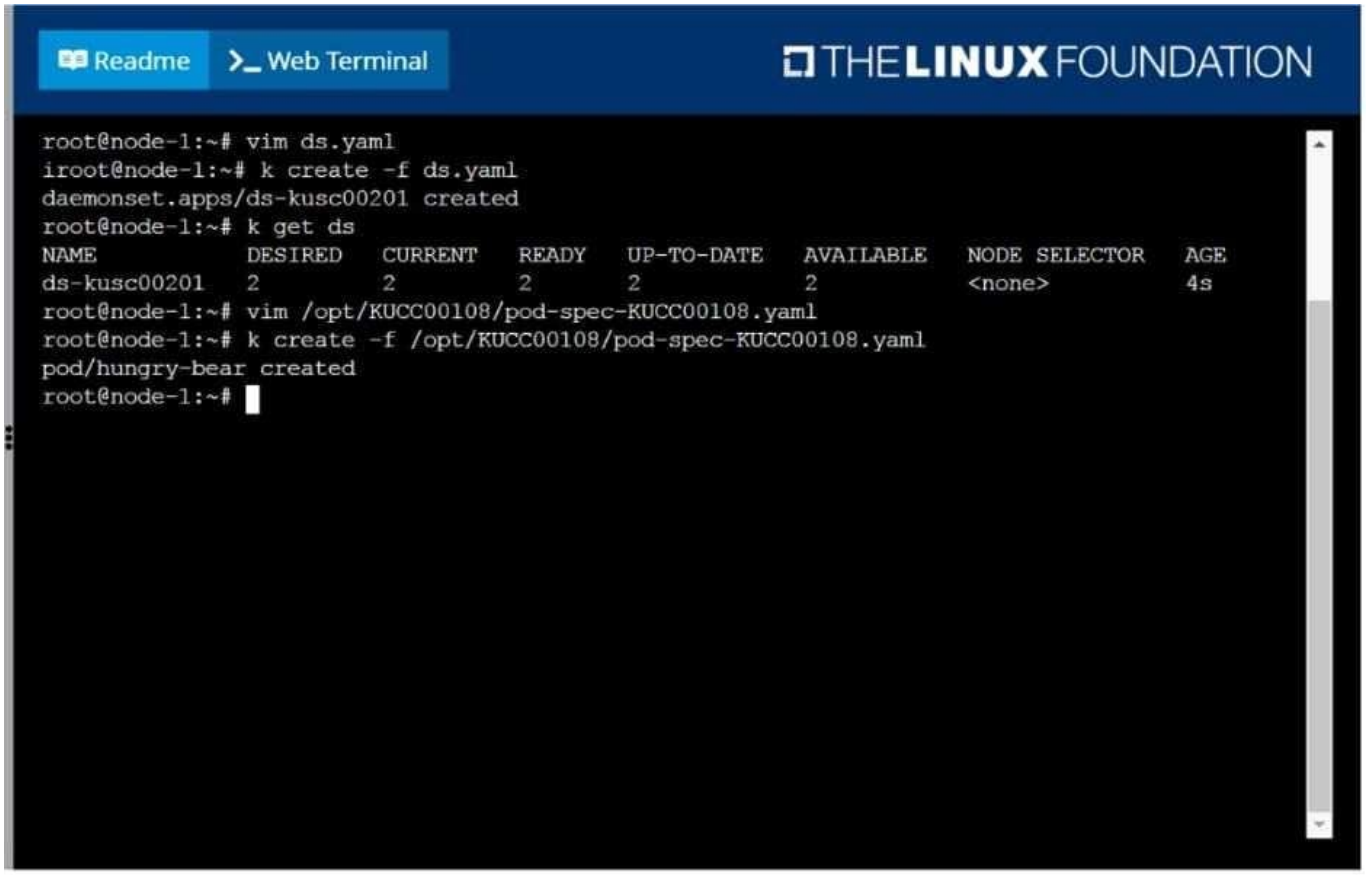
SIMULATION

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

Correct Answer: Check the answer in explanation.


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


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
:wq



QUESTION 5

Create a busybox pod and add "sleep 3600" command

Correct Answer: Check the answer in explanation.

Solution

kubectl run busybox --image=busybox --restart=Never -- /bin/sh -c "sleep 3600"

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