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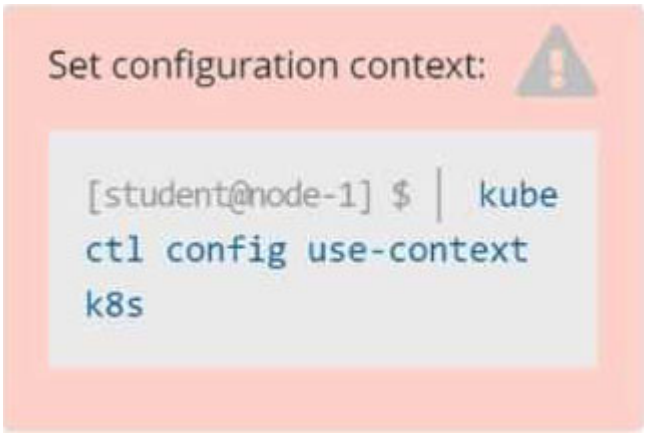
Exam : **CKA**

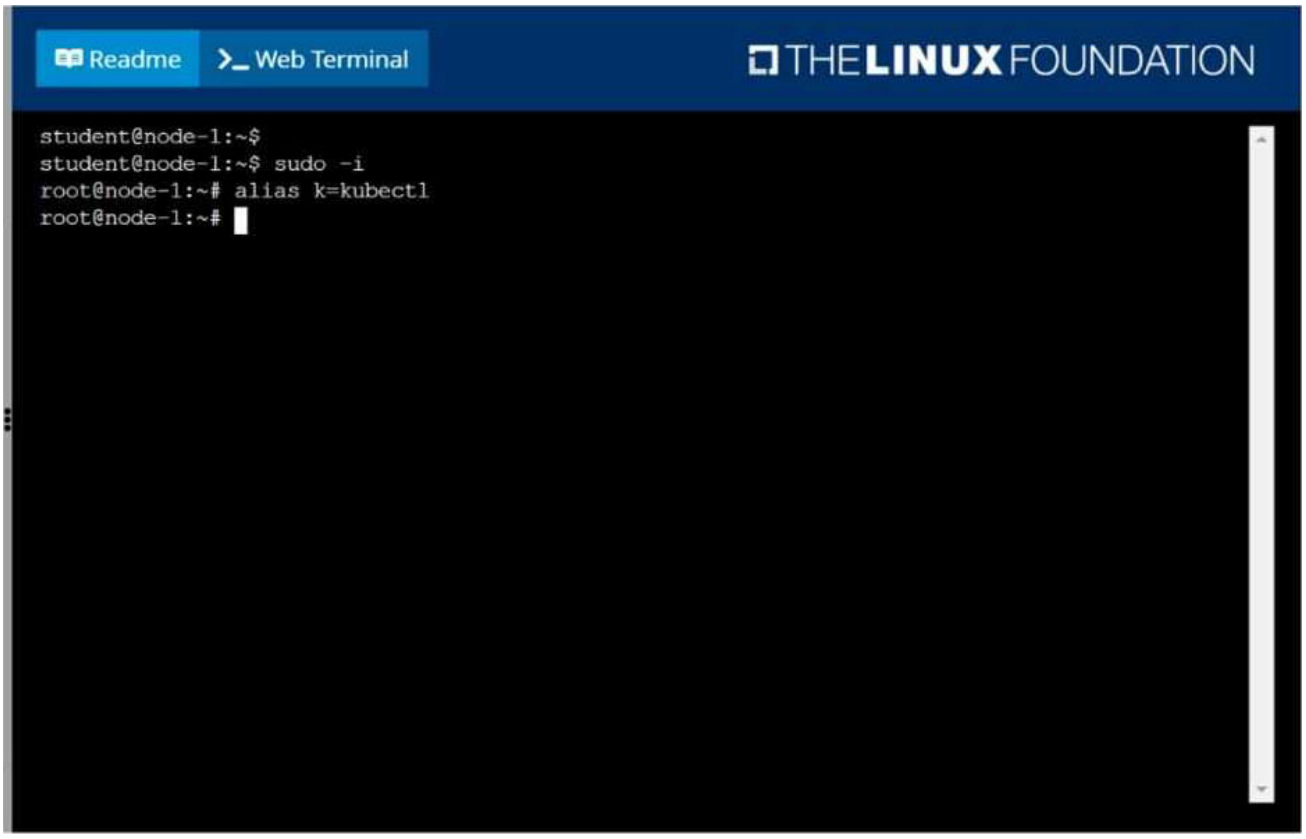
Title : Certified Kubernetes Administrator

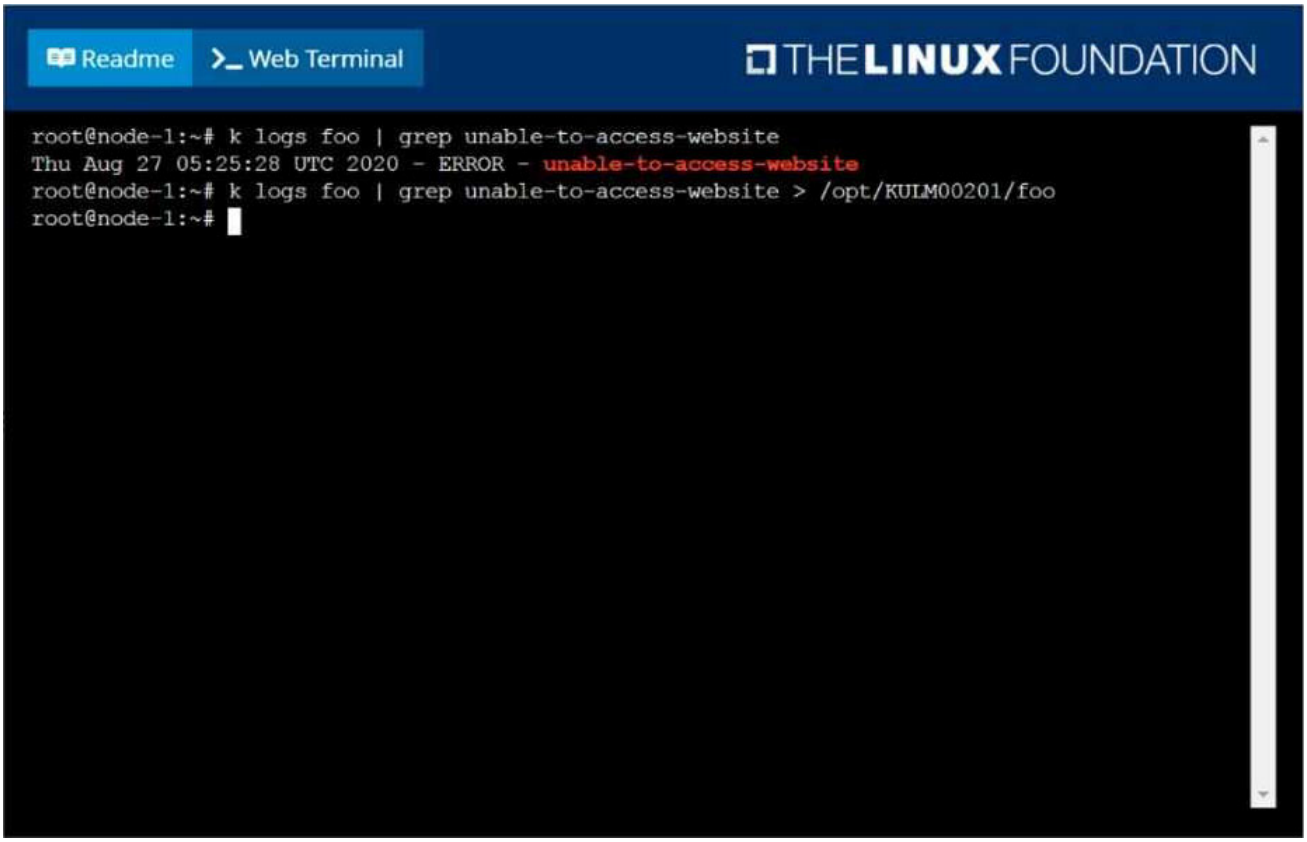
Version : DEMO

1.SIMULATION
Monitor the logs of pod foo and:
Extract log lines corresponding to error
unable-to-access-website
Write them to/opt/KULM00201/foo



Answer:
solution

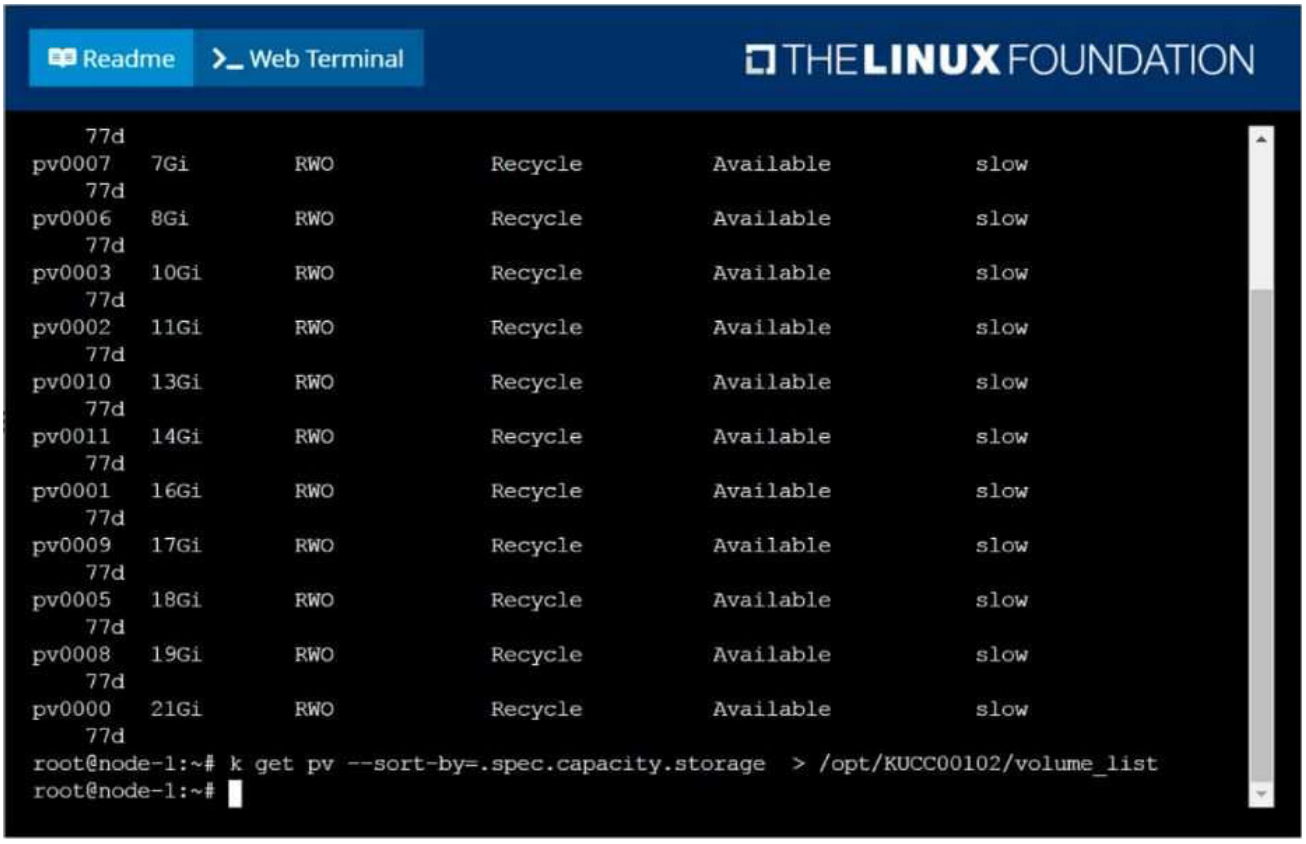




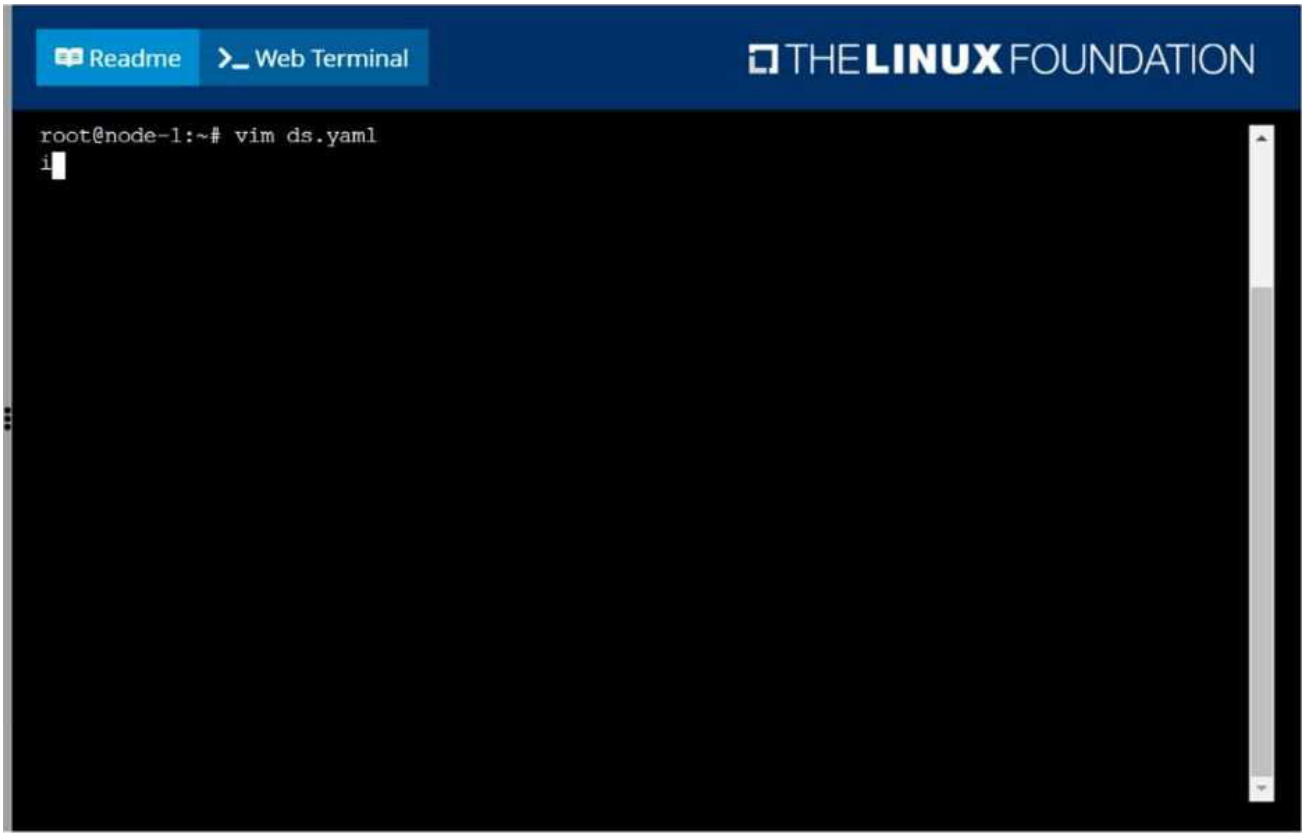
Step 0: Set the correct Kubernetes context
If you're given a specific context (k8s in this case), you must switch to it:
kubectl config use-context k8s
⚠️ Skipping this can cause you to work in the wrong cluster/namespace and cost you marks.
Step 1: Identify the namespace of the pod foo
First, check if foo is running in a specific namespace or in the default namespace.
kubectl get pods --all-namespaces | grep foo
Assume the pod is in the default namespace if no namespace is mentioned.
Step 2: Confirm pod foo exists and is running
kubectl get pod foo
You should get output similar to:
NAME READY STATUS RESTARTS AGE
foo 1/1 Running 0 1h
If the pod is not running, logs may not be available.
Step 3: View logs and filter specific error lines
We're looking for log lines that contain:
unable-to-access-website
Command:
kubectl logs foo | grep "unable-to-access-website"
Step 4: Write the filtered log lines to a file
Redirect the output to the required path:
kubectl logs foo | grep "unable-to-access-website" > /opt/KULM00201/foo
✅ This creates or overwrites the file /opt/KULM00201/foo with the filtered logs.

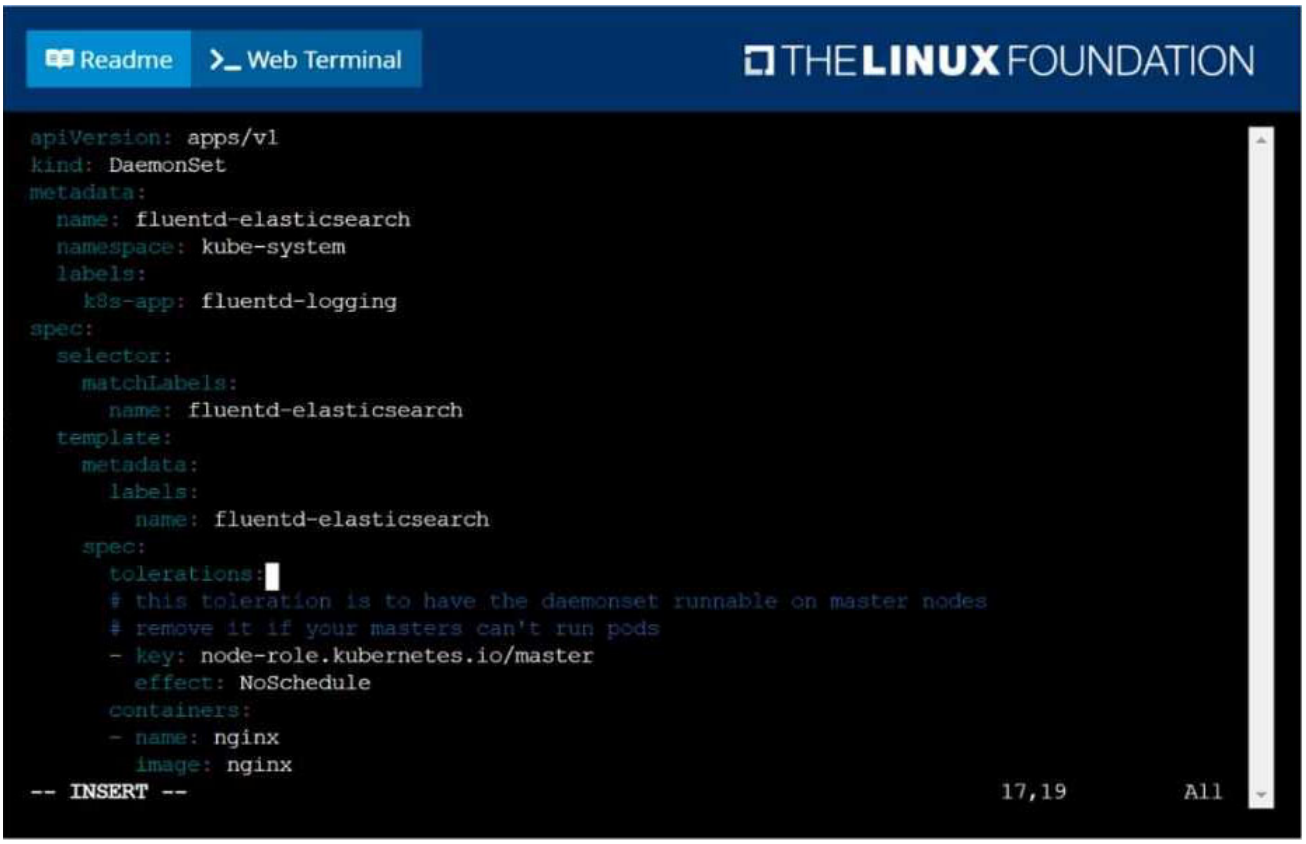
You may need sudo if /opt requires elevated permissions. But in most exam environments, you're already the root or privileged user.
Step 5: Verify the output file (optional but smart)
Check that the file was created and has the correct content:
cat /opt/KULM00201/foo
✅ Final Answer Summary:
kubectl config use-context k8s
kubectl logs foo | grep "unable-to-access-website" > /opt/KULM00201/foo

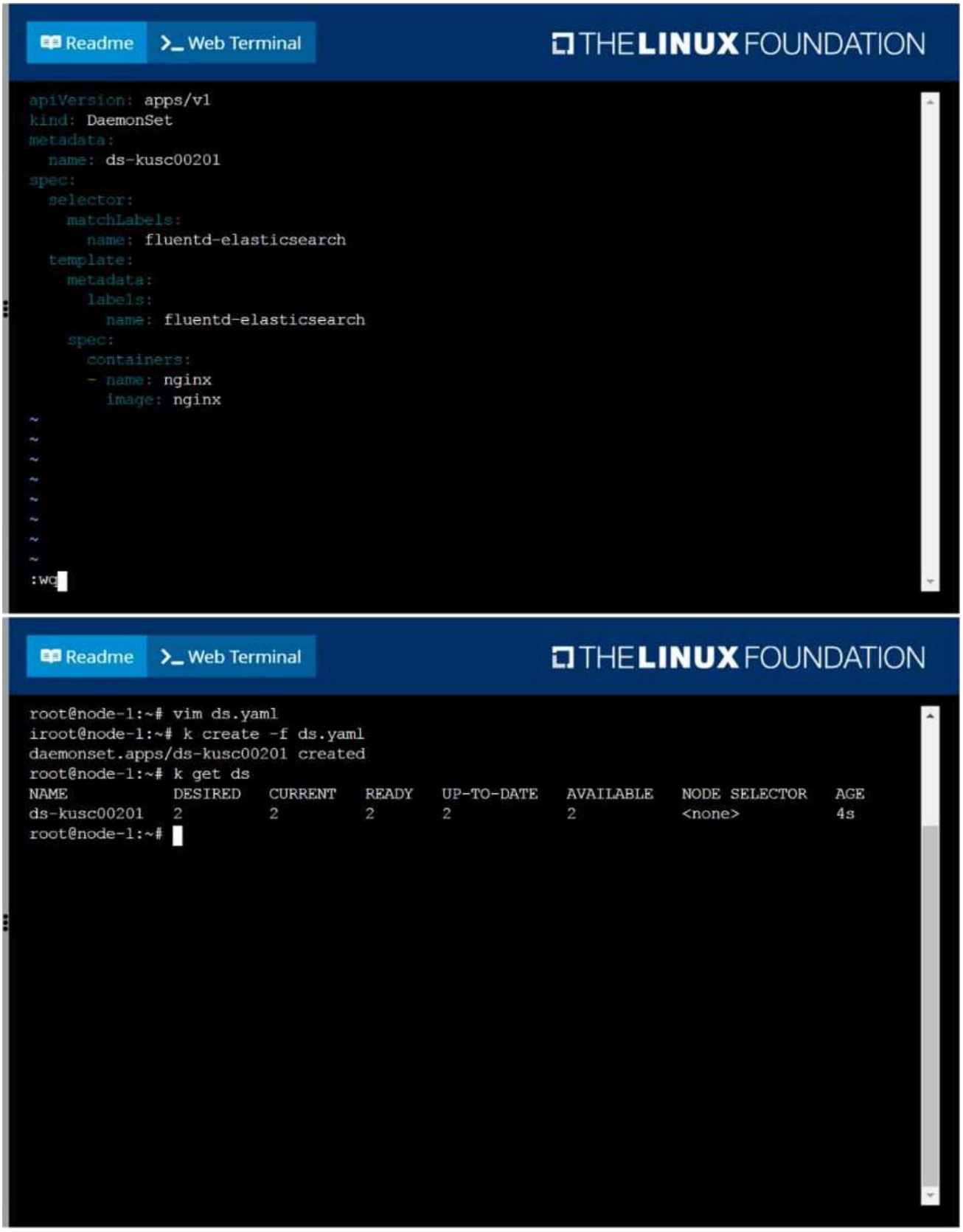
2.SIMULATION
List all persistent volumes sorted by capacity, saving the full kubectl output to /opt/KUCC00102/volume_list. Use kubectl 's own functionality for sorting the output, and do not manipulate it any further.
Answer:
solution



3.SIMULATION
Ensure a single instance of pod nginx is running on each node of the Kubernetes cluster where nginx also represents the Image name which has to be used. Do not override any taints currently in place. Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.
Answer:
solution


Readme
Web Terminal
THE LINUX FOUNDATION
root@node-1:~# vim ds.yaml
i


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: apps/v1
kind: DaemonSet
metadata:
name: fluentd-elasticsearch
namespace: kube-system
labels:
k8s-app: fluentd-logging
spec:
selector:
matchLabels:
name: fluentd-elasticsearch
template:
metadata:
labels:
name: fluentd-elasticsearch
spec:
tolerations:
this toleration is to have the daemonset runnable on master nodes
remove it if your masters can't run pods
- key: node-role.kubernetes.io/master
effect: NoSchedule
containers:
- name: nginx
image: nginx
-- INSERT --
17,19
All



4.SIMULATION

Perform the following tasks:

Add an init container to hungry-bear (which has been defined in spec file /opt/KUCC00108/pod-spec-

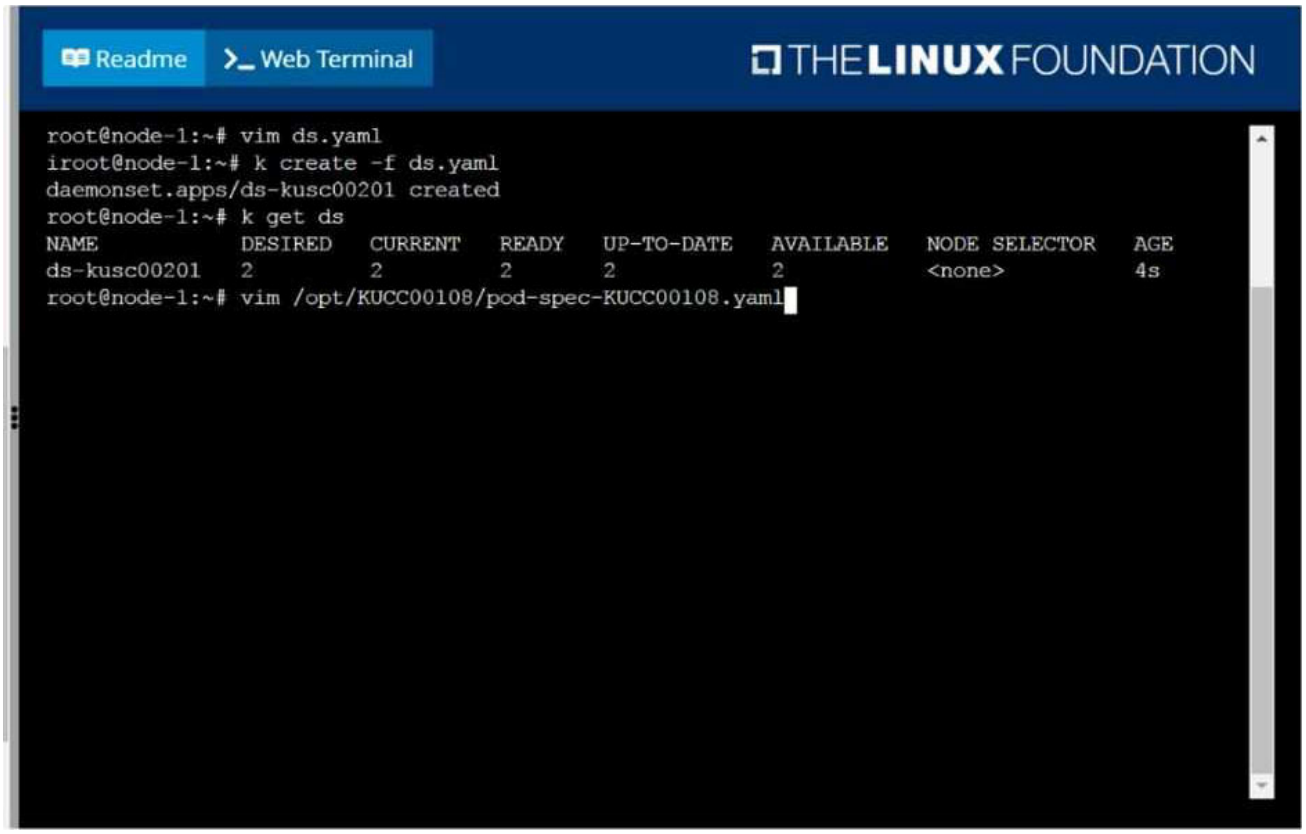
KUCC00108.yaml)

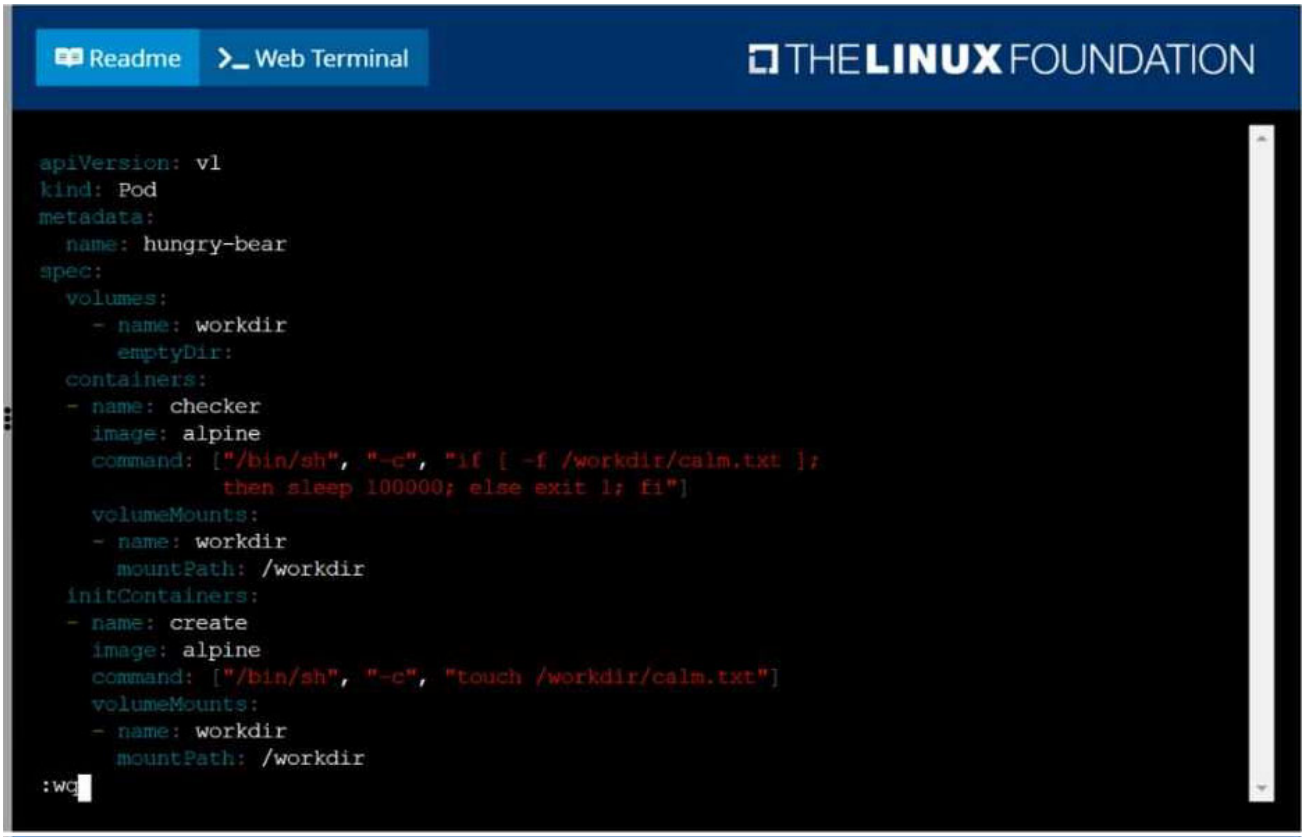
The init container should create an empty file named/workdir/calm.txt If /workdir/calm.txt is not detected, the pod should exit

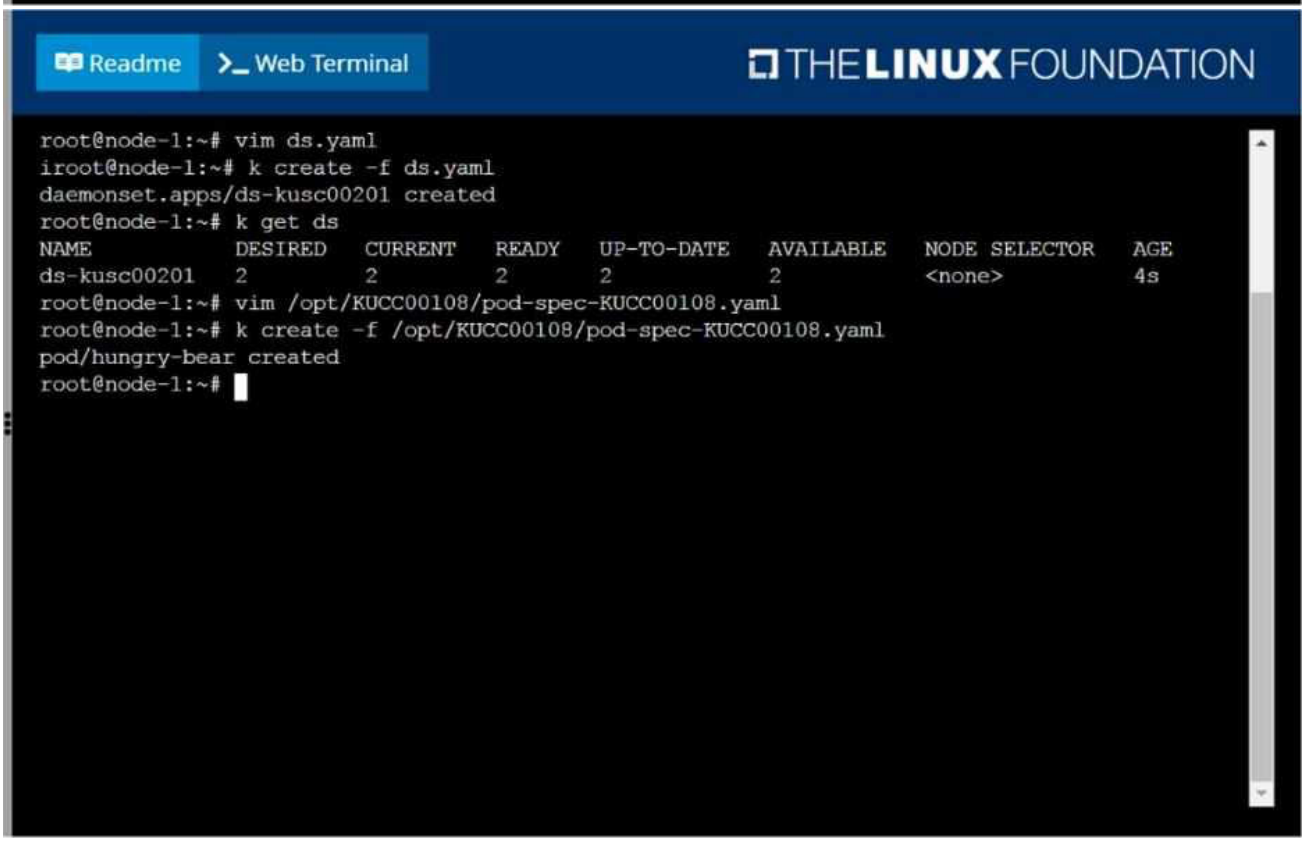
Once the spec file has been updated with the init container definition, the pod should be created

Answer:

solution







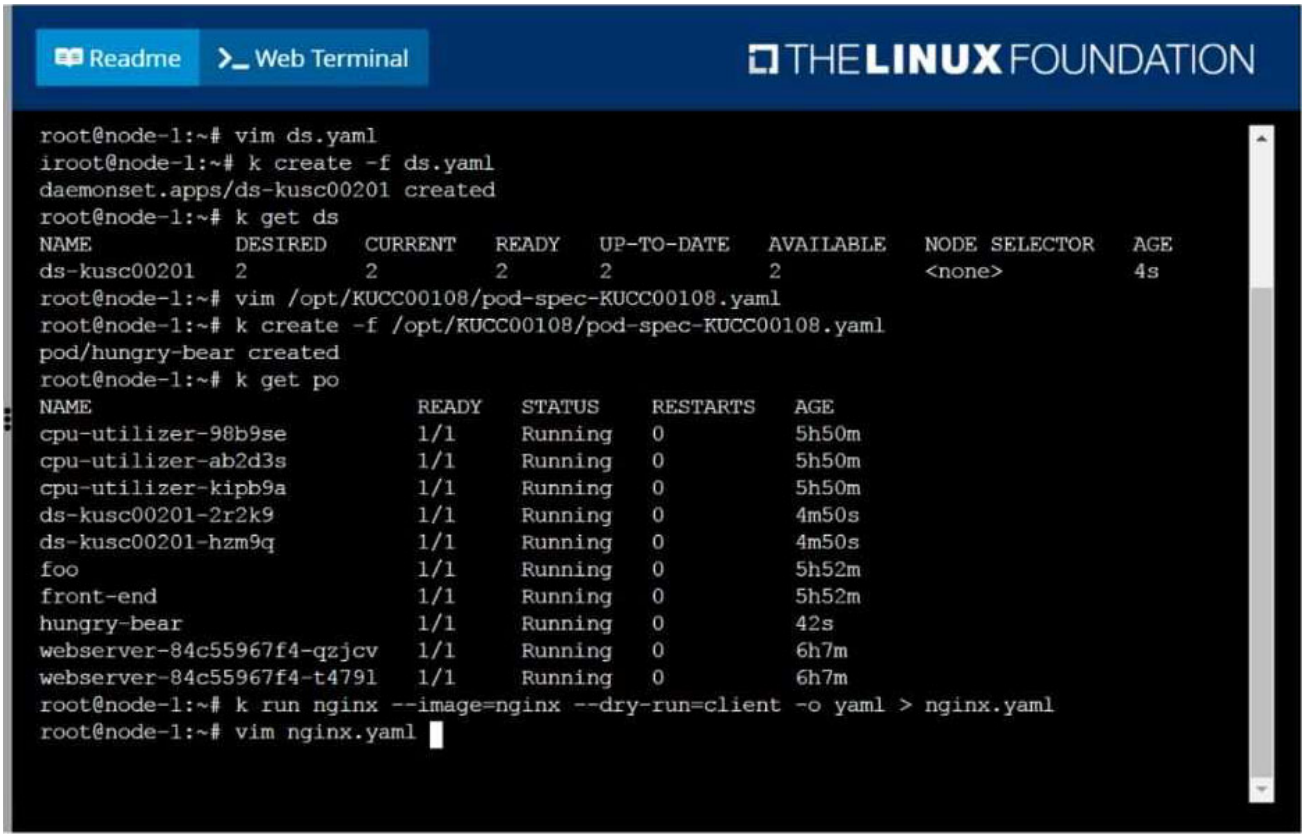
5.SIMULATION

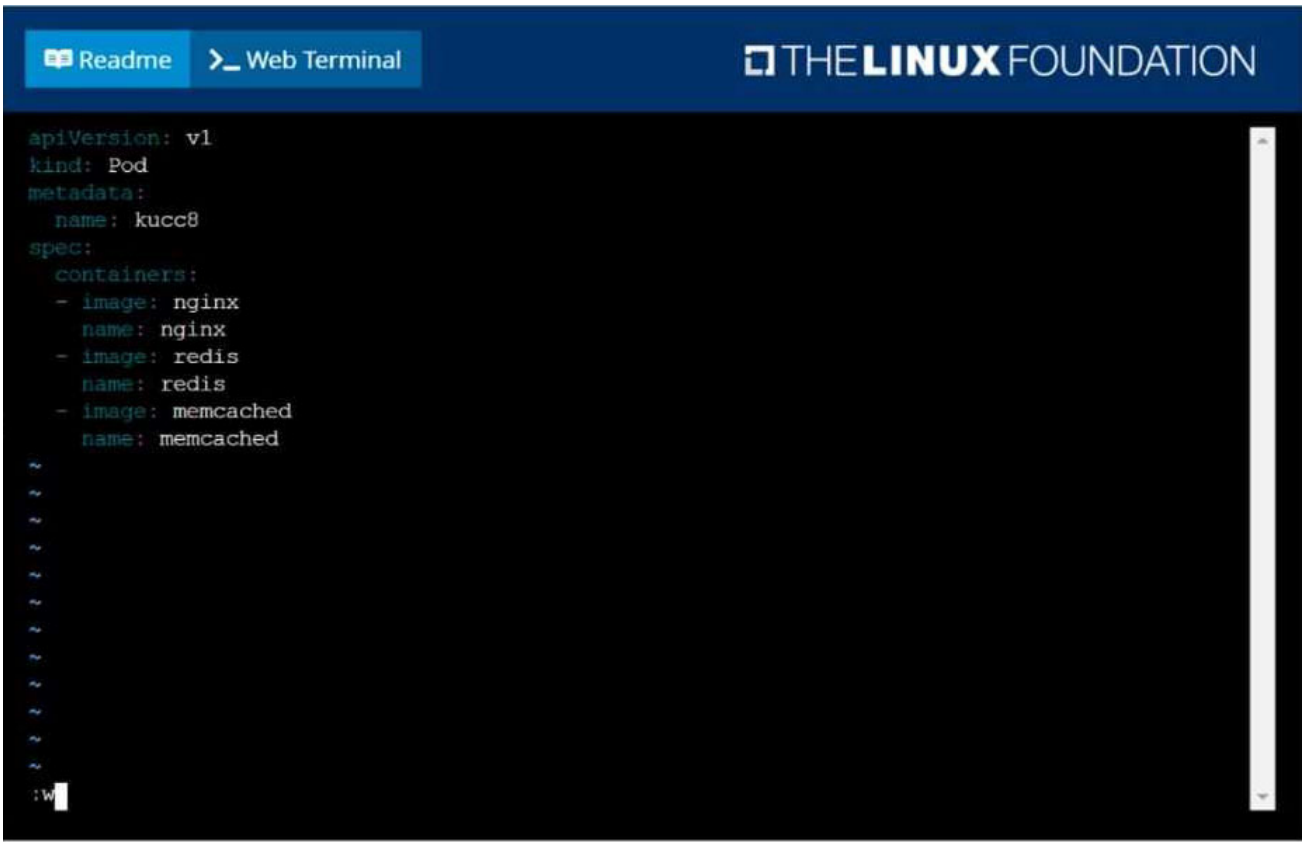
Create a pod named kucc8 with a single app container for each of the following images running inside (there may be between 1 and 4 images specified):

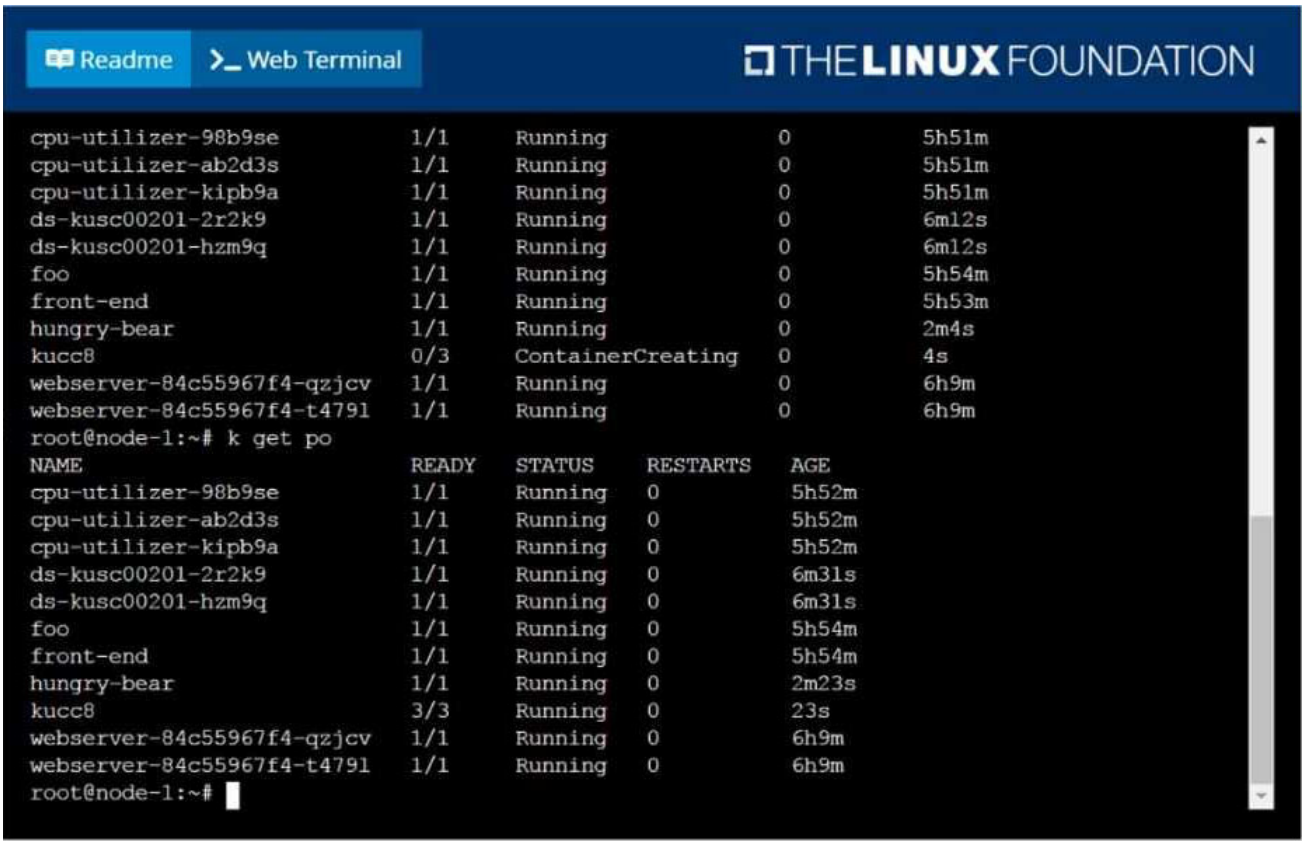
nginx + redis + memcached.

Answer:

solution






Readme
Web Terminal
THE LINUX FOUNDATION
cpu-utilizer-98b9se 1/1 Running 0 5h51m
cpu-utilizer-ab2d3s 1/1 Running 0 5h51m
cpu-utilizer-kipb9a 1/1 Running 0 5h51m
ds-kusc00201-2r2k9 1/1 Running 0 6m12s
ds-kusc00201-hzm9q 1/1 Running 0 6m12s
foo 1/1 Running 0 5h54m
front-end 1/1 Running 0 5h53m
hungry-bear 1/1 Running 0 2m4s
kucc8 0/3 ContainerCreating 0 4s
webserver-84c55967f4-qzjcv 1/1 Running 0 6h9m
webserver-84c55967f4-t4791 1/1 Running 0 6h9m
root@node-1:~# k get po
NAME READY STATUS RESTARTS AGE
cpu-utilizer-98b9se 1/1 Running 0 5h52m
cpu-utilizer-ab2d3s 1/1 Running 0 5h52m
cpu-utilizer-kipb9a 1/1 Running 0 5h52m
ds-kusc00201-2r2k9 1/1 Running 0 6m31s
ds-kusc00201-hzm9q 1/1 Running 0 6m31s
foo 1/1 Running 0 5h54m
front-end 1/1 Running 0 5h54m
hungry-bear 1/1 Running 0 2m23s
kucc8 3/3 Running 0 23s
webserver-84c55967f4-qzjcv 1/1 Running 0 6h9m
webserver-84c55967f4-t4791 1/1 Running 0 6h9m
root@node-1:~#