Linux Foundation
CKA

Certified Kubernetes Administrator (CKA)

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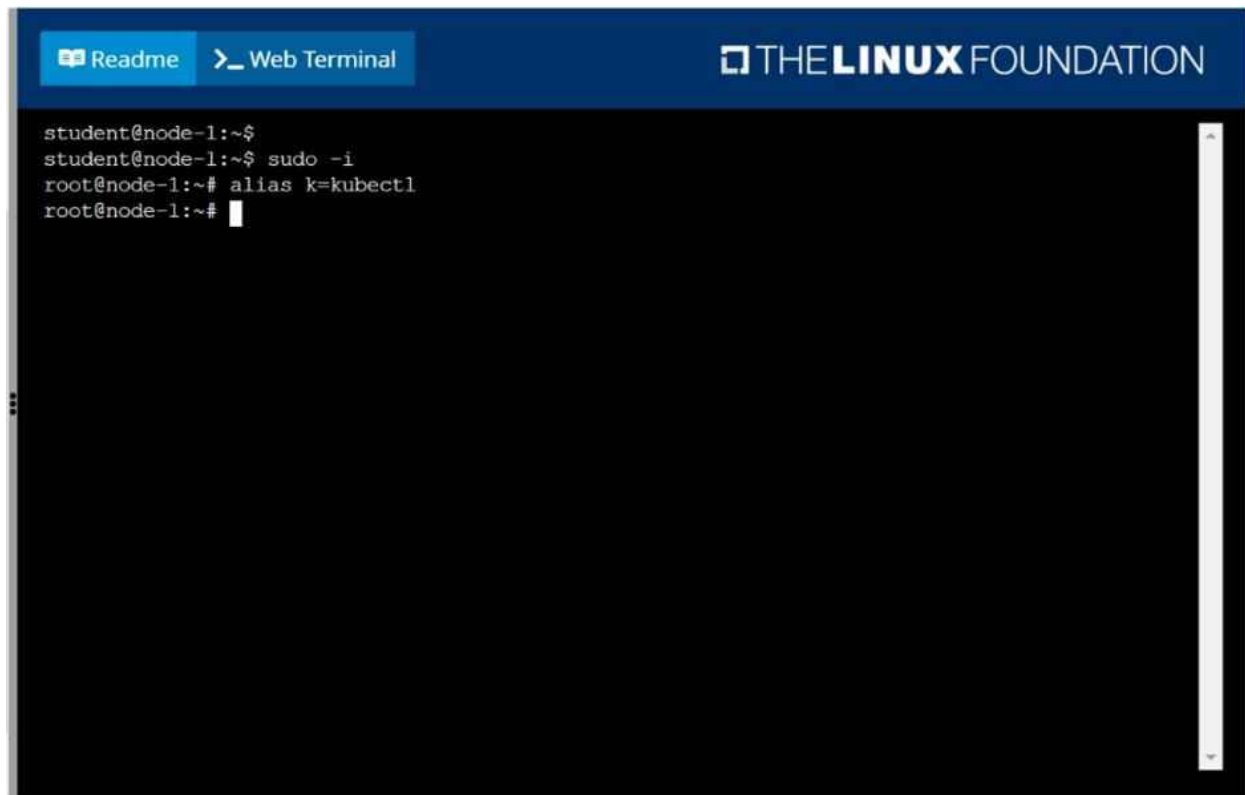
Latest Version: 13.0

Question: 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

Set configuration context: ⚠️

```
[student@node-1] $ | kube
ctl config use-context
k8s
```
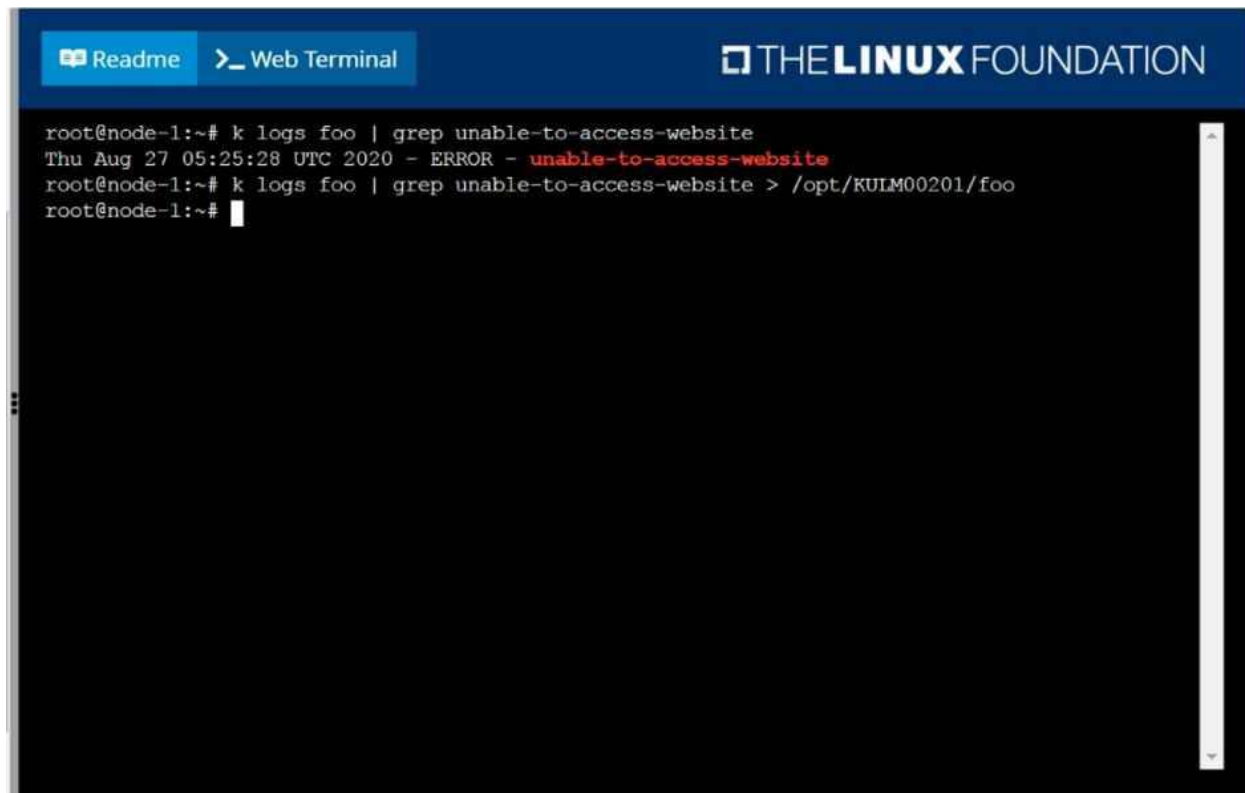
Answer: See the solution below.

```
student@node-1:~$
student@node-1:~$ sudo -i
root@node-1:~# alias k=kubectl
root@node-1:~#
```

Explanation:
solution
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```
root@node-1:~# k logs foo | grep unable-to-access-website
Thu Aug 27 05:25:28 UTC 2020 - ERROR - unable-to-access-website
root@node-1:~# k logs foo | grep unable-to-access-website > /opt/KULM00201/foo
root@node-1:~#
```

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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
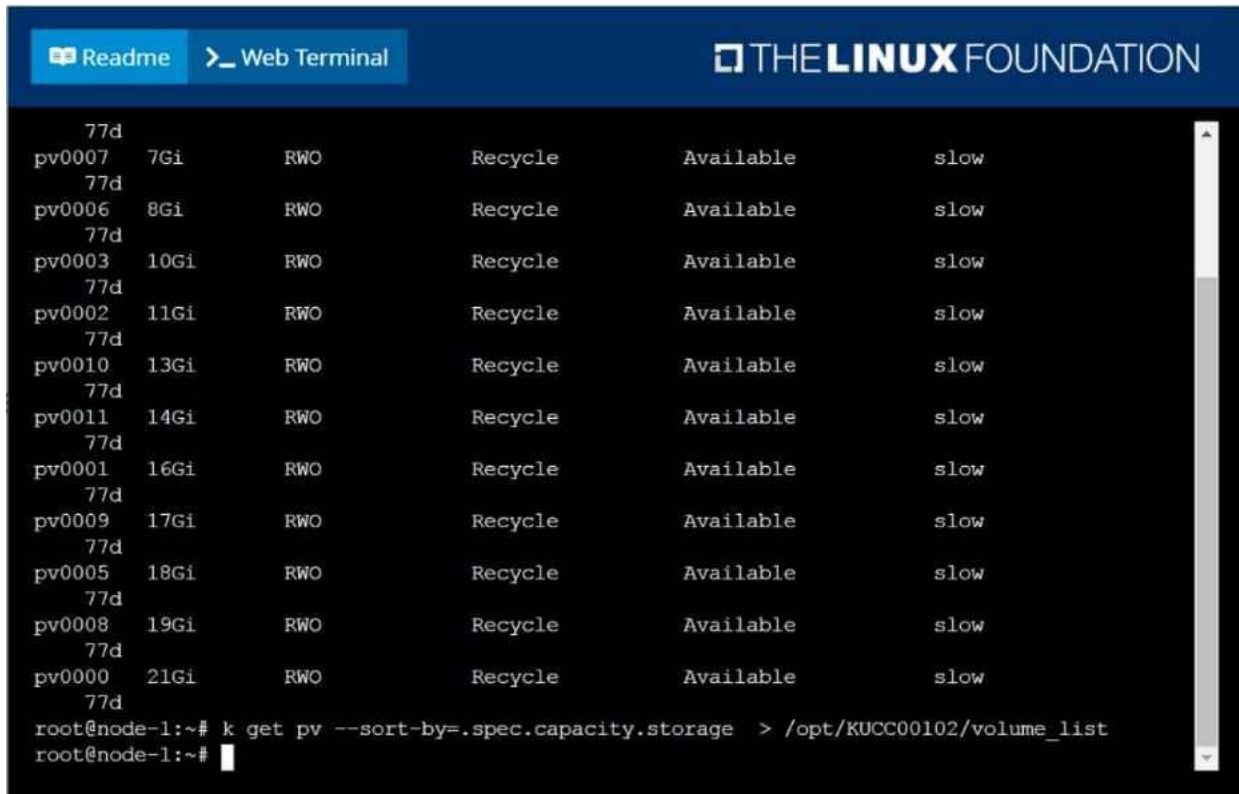⬚ Final Answer Summary:
kubectl config use-context k8s
kubectl logs foo | grep "unable-to-access-website" > /opt/KULM00201/foo

Question: 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: See the solution below.

Explanation:
solution
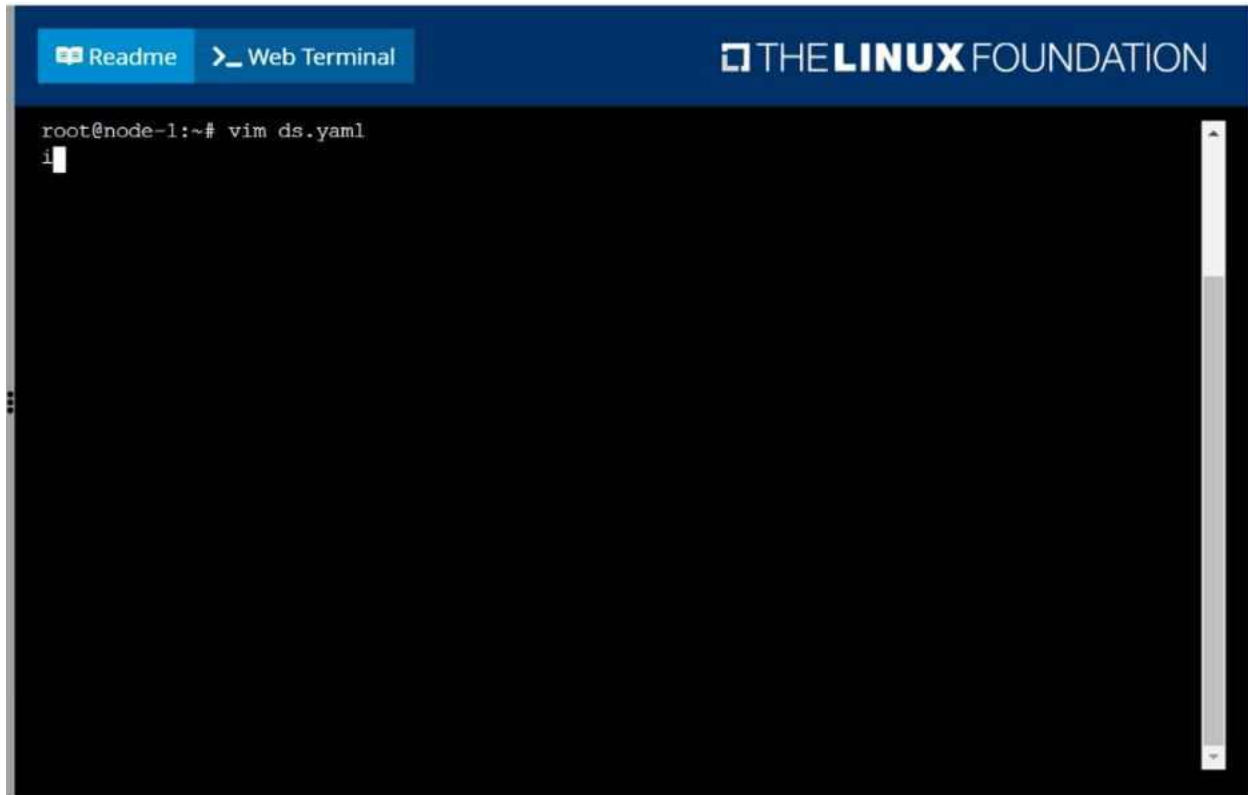F:\Work\Data Entry Work\Data Entry\20200827\CKA\2 C.JPG

Question: 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.
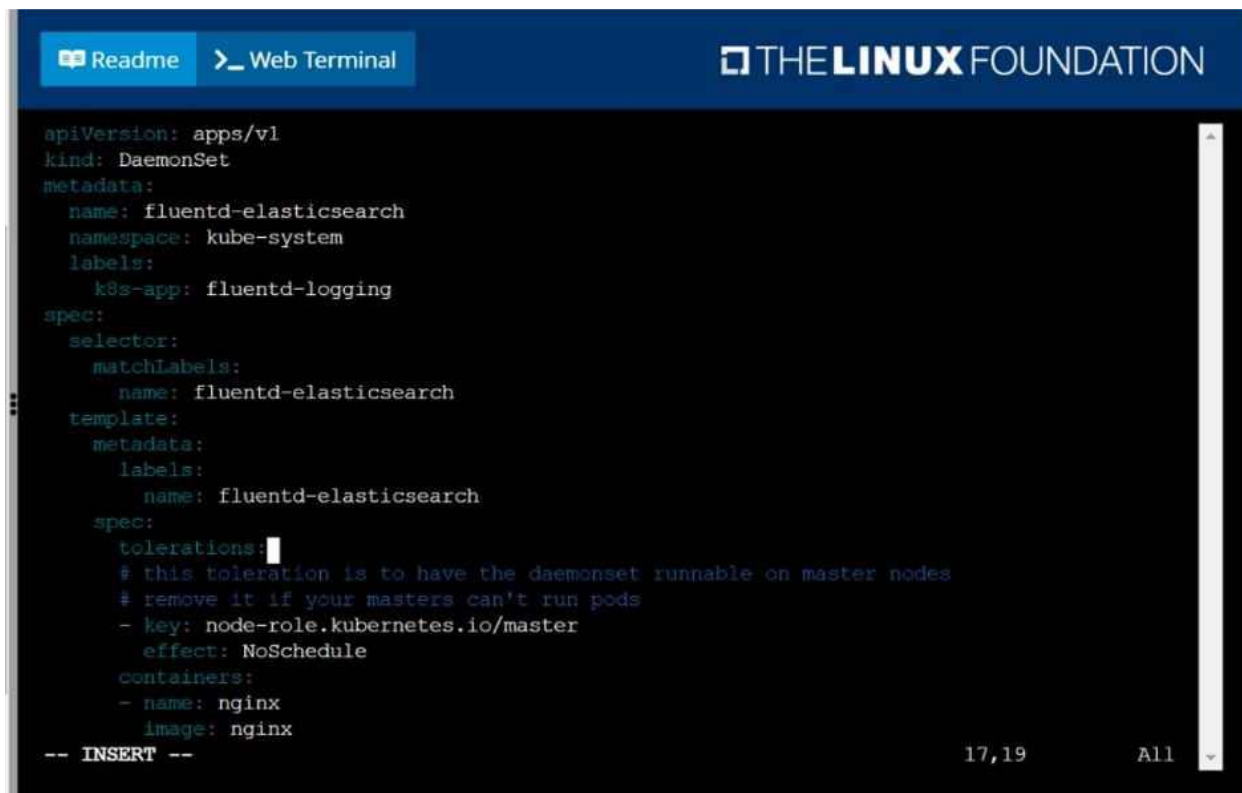
Answer: See the solution below.

Explanation:
solution
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```
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
```

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```
apiVersion: apps/v1
kind: DaemonSet
metadata:
  name: ds-kusc00201
spec:
  selector:
    matchLabels:
      name: fluentd-elasticsearch
  template:
    metadata:
      labels:
        name: fluentd-elasticsearch
    spec:
      containers:
      - name: nginx
        image: nginx
~
~
~
~
~
~
~
~
~
:wq
```

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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

Answer: See the solution below.

Explanation:
solution
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```
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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:~# █
```
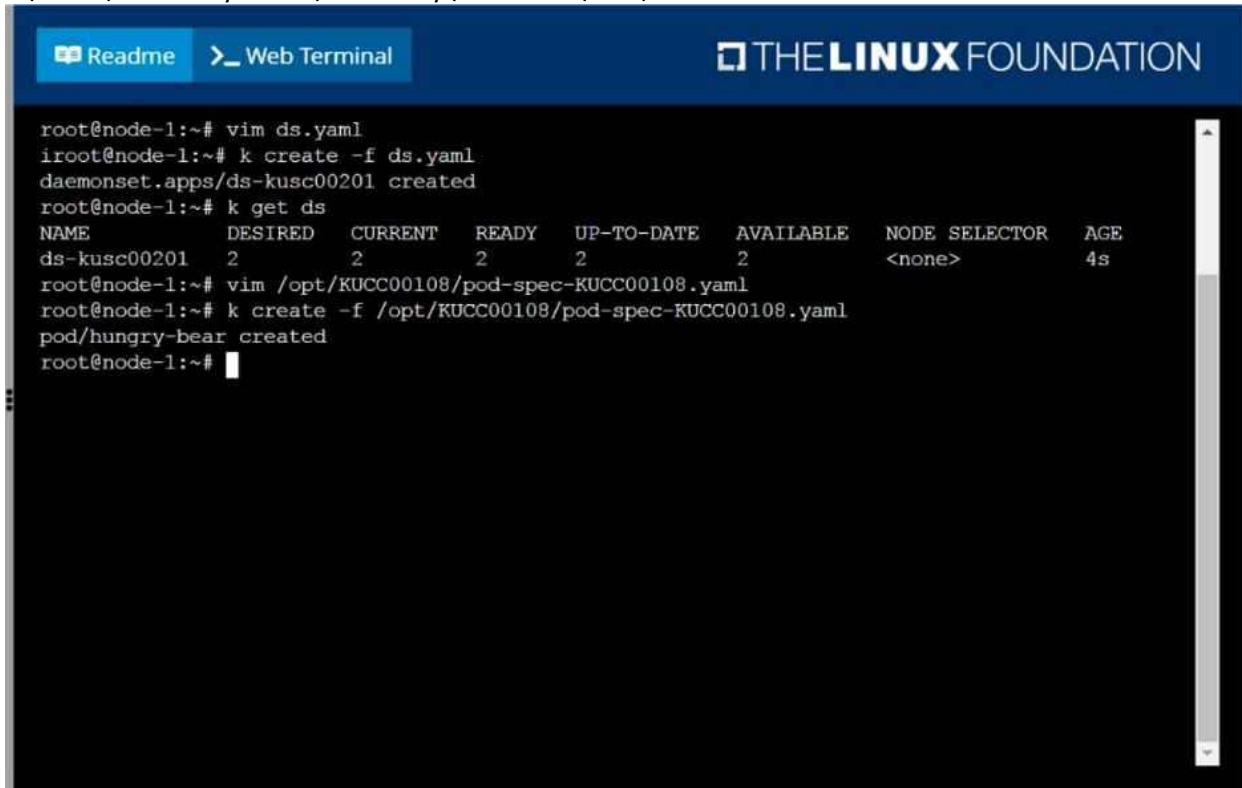
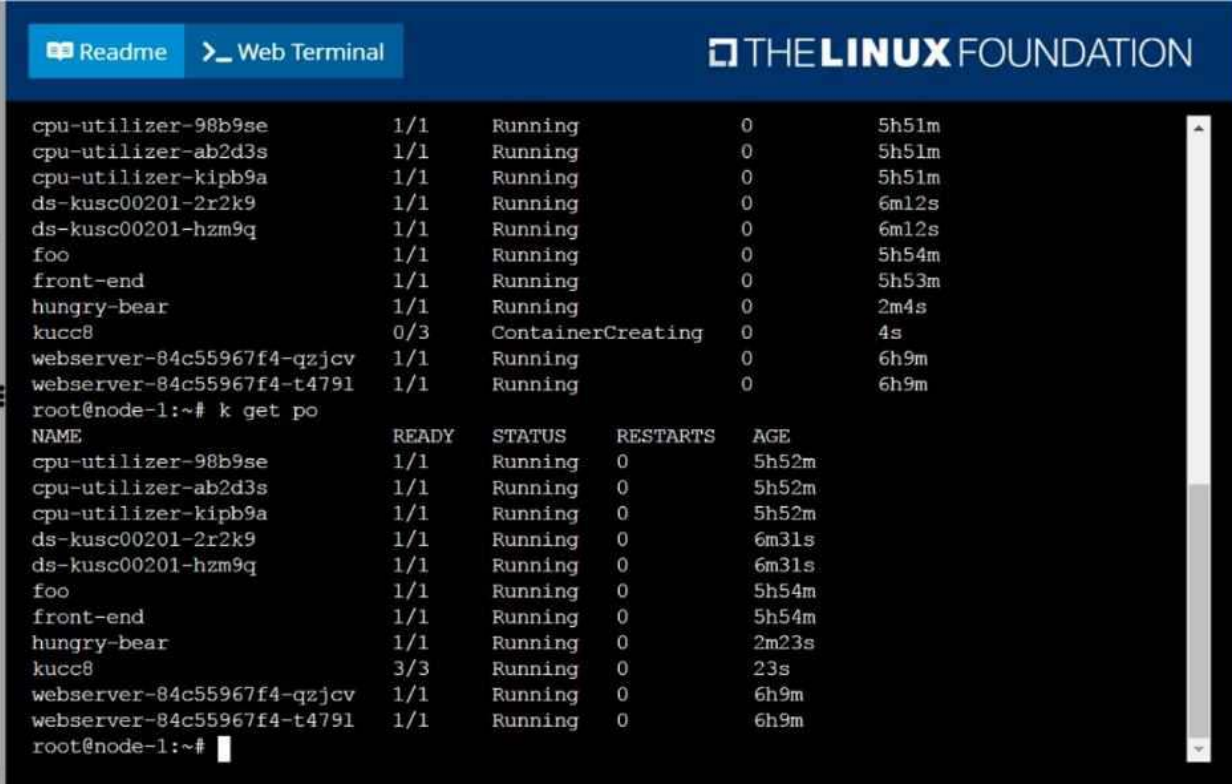F:\Work\Data Entry Work\Data Entry\20200827\CKA\4 D.JPG

Question: 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: See the solution below.

Explanation:
solution
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```
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:~#
```

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