



Linux-Foundation

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

NEW QUESTION 1

CORRECT TEXT

Create a namespace called 'development' and a pod with image nginx called nginx on this namespace.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubectl create namespace development
kubectl run nginx --image=nginx --restart=Never -n development

NEW QUESTION 2

CORRECT TEXT

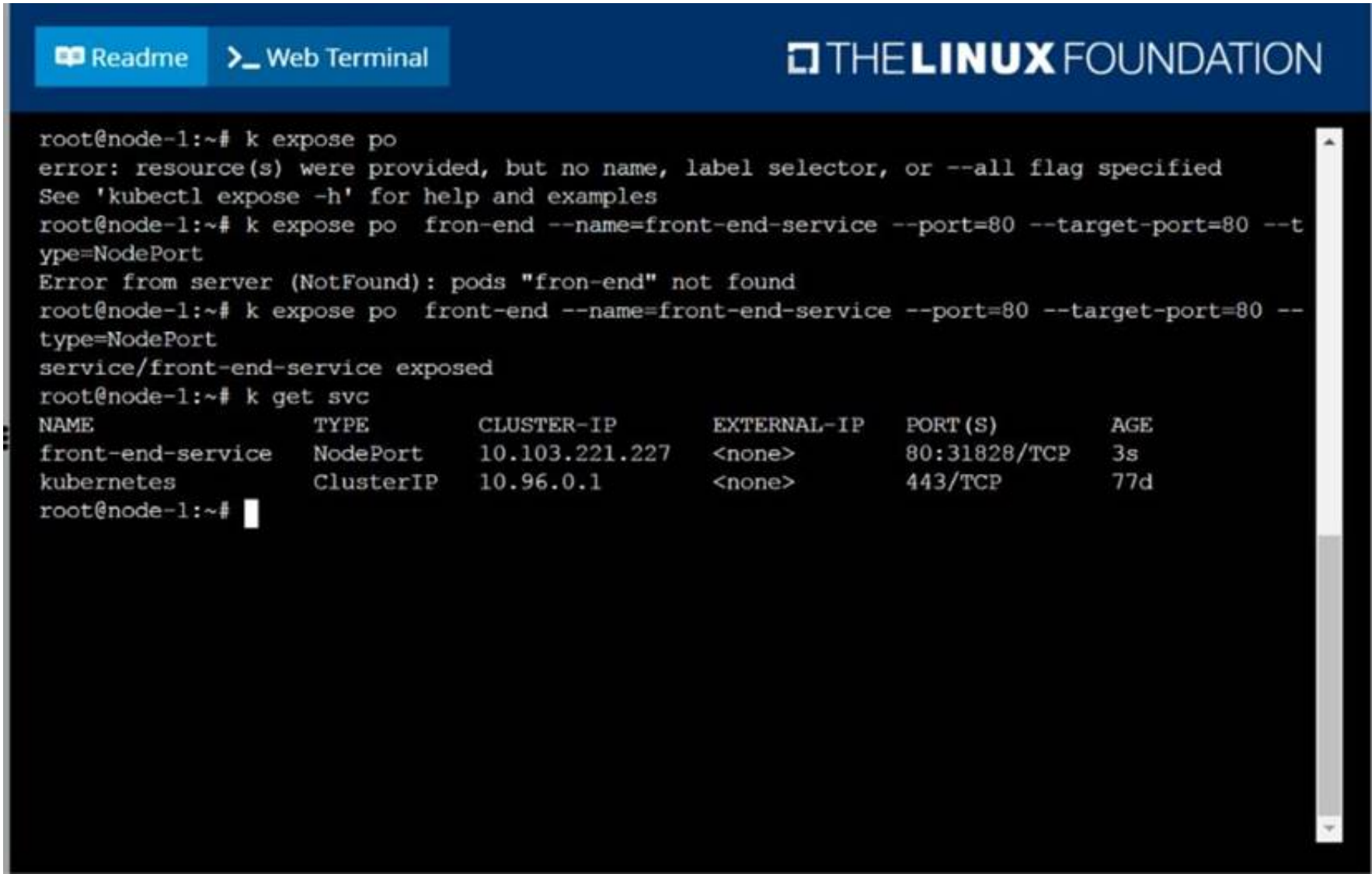
Create and configure the service front-end-service so it's accessible through NodePort and routes to the existing pod named front-end.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution



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NEW QUESTION 3

CORRECT TEXT

Get IP address of the pod – “nginx-dev”

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Kubect1 get po -o wide
Using JsonPath
kubect1 get pods -o=jsonpath='{range items[*]}{.metadata.name}{\t}{.status.podIP}{\n}{end}'

NEW QUESTION 4

CORRECT TEXT

Print pod name and start time to “/opt/pod-status” file

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
kubect1 get pods -o=jsonpath='{range items[*]}{.metadata.name}{"\t"}{.status.podIP}{"\n"}{end}'
```

NEW QUESTION 5

CORRECT TEXT

Score: 4%



Task

Schedule a pod as follows:

- Name: nginx-kusc00401
- Image: nginx
- Node selector: disk=ssd

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
#yaml
apiVersion: v1
kind: Pod
metadata:
  name: nginx-kusc00401
spec:
  containers:
  - name: nginx
    image: nginx
    imagePullPolicy: IfNotPresent
  nodeSelector:
    disk: spinning
#
kubectl create -f node-select.yaml
```

NEW QUESTION 6

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).

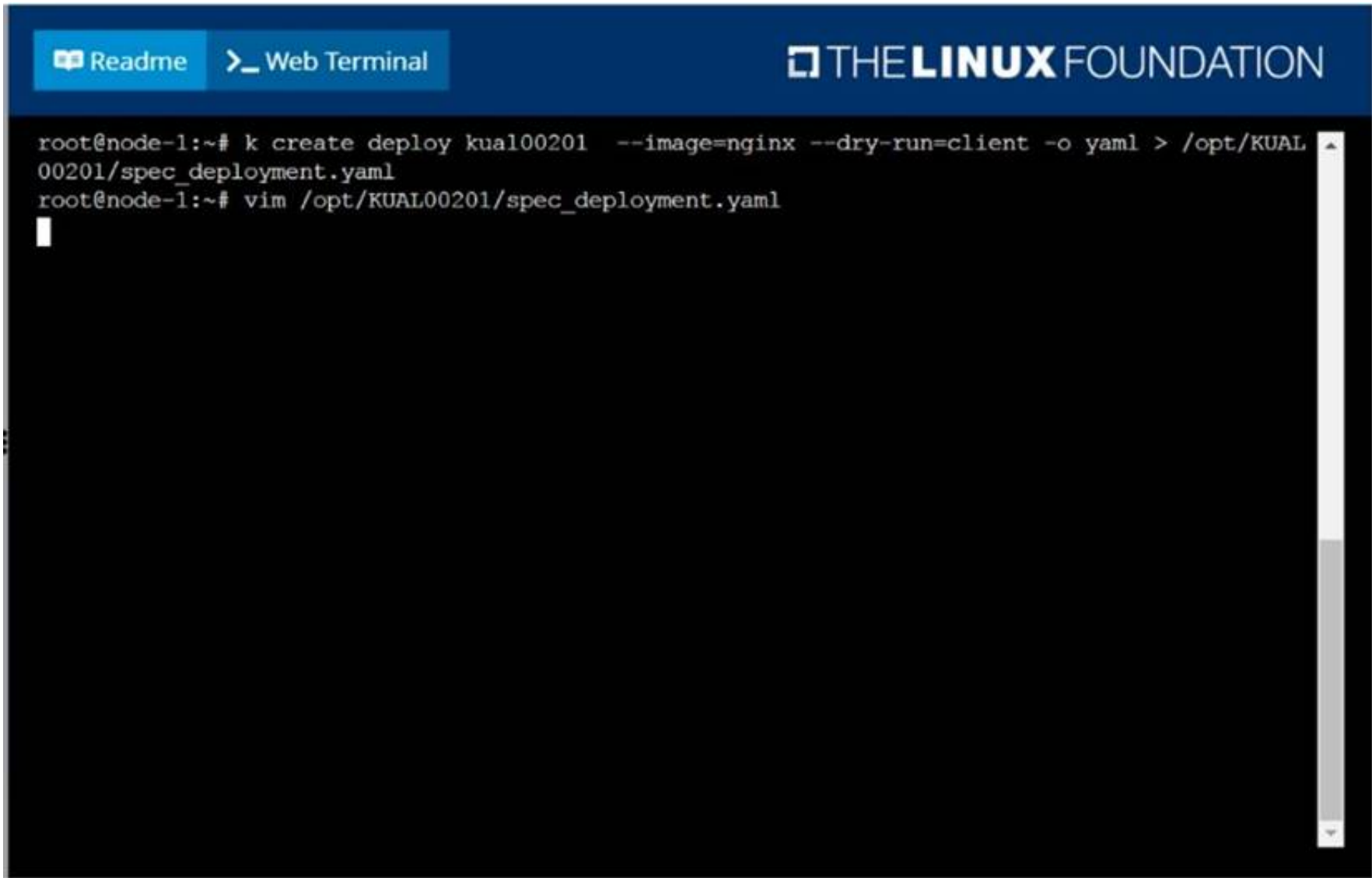
When you are done, clean up (delete) any new Kubernetes API object that you produced during this task.

- A. Mastered
- B. Not Mastered

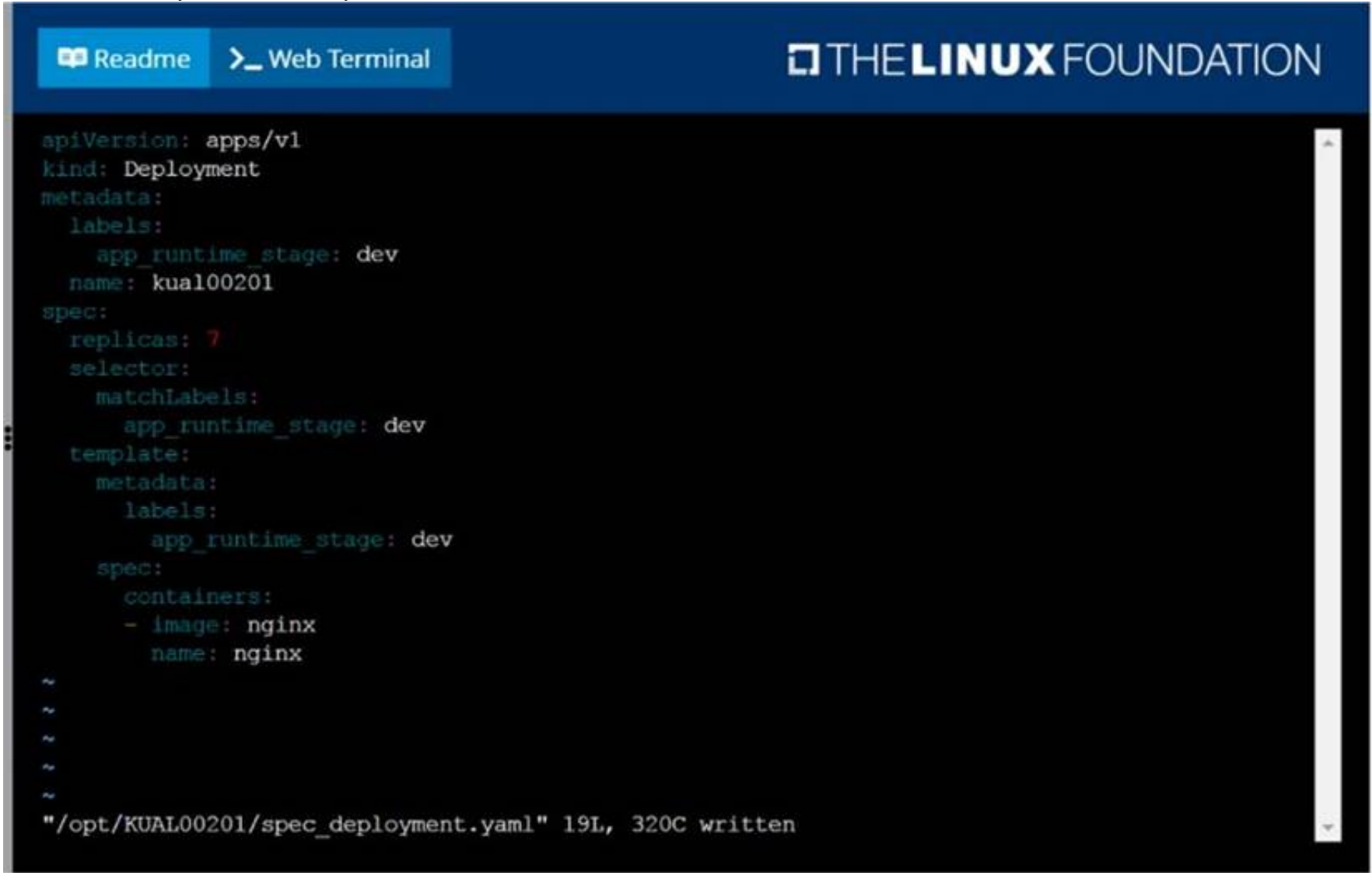
Answer: A

Explanation:

solution



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NEW QUESTION 7

CORRECT TEXT

Score: 7%

**Task**

Create a new NetworkPolicy named allow-port-from-namespace in the existing namespace echo. Ensure that the new NetworkPolicy allows Pods in namespace my-app to connect to port 9000 of Pods in namespace echo.

Further ensure that the new NetworkPolicy:

- does not allow access to Pods, which don't listen on port 9000
- does not allow access from Pods, which are not in namespace my-app

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Solution:

```
#network.yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: allow-port-from-namespace
  namespace: internal
spec:
  podSelector:
    matchLabels: {
    }
  policyTypes:
  - Ingress
  ingress:
  - from:
  - podSelector: {
  }
  ports:
  - protocol: TCP
    port: 8080
#spec.podSelector namespace pod
kubectl create -f network.yaml
```

NEW QUESTION 8

CORRECT TEXT

Score: 7%

No configuration context change required for this task.

Ensure, however, that you have returned to the base node before starting to work on this task:

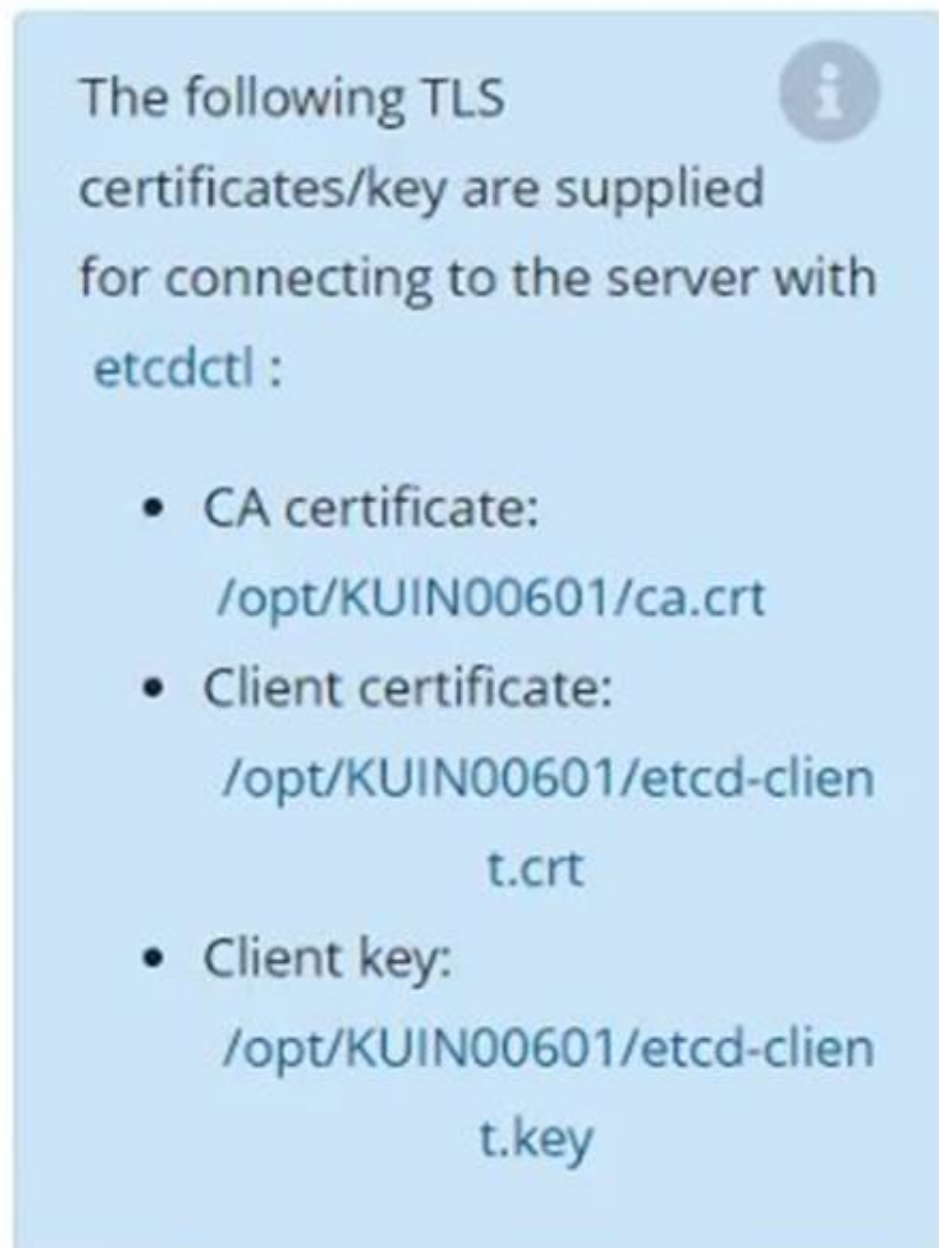
```
[student@mk8s-master-0] |
$
exit
```

Task
 First, create a snapshot of the existing etcd instance running at <https://127.0.0.1:2379>, saving the snapshot to `/srv/data/etcd-snapshot.db`.

Creating a snapshot of the given instance is expected to complete in seconds.

If the operation seems to hang, something's likely wrong with your command. Use **CTRL + C** to cancel the operation and try again.

Next, restore an existing, previous snapshot located at `/var/lib/backup/etcd-snapshot-previous.db`



- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Solution:

#backup

```
ETCDCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" --cacert=/opt/KUIN000601/ca.crt --cert=/opt/KUIN000601/etcd-client.crt --key=/opt/KUIN000601/etcd-client.key snapshot save /etc/data/etcd-snapshot.db
```

#restore

```
ETCDCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" --cacert=/opt/KUIN000601/ca.crt --cert=/opt/KUIN000601/etcd-client.crt --key=/opt/KUIN000601/etcd-client.key snapshot restore /var/lib/backup/etcd-snapshot-previoys.db
```

NEW QUESTION 9

CORRECT TEXT

Check the Image version of nginx-dev pod using jsonpath

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

kubect1 get po nginx-dev -o

jsonpath='{.spec.containers[].image}'{"\n"}

NEW QUESTION 10

CORRECT TEXT

Create a snapshot of the etcd instance running at https://127.0.0.1:2379, saving the snapshot to the file path /srv/data/etcd-snapshot.db.

The following TLS certificates/key are supplied for connecting to the server with etcdctl:

? CA certificate: /opt/KUCM00302/ca.crt

? Client certificate: /opt/KUCM00302/etcd-client.crt

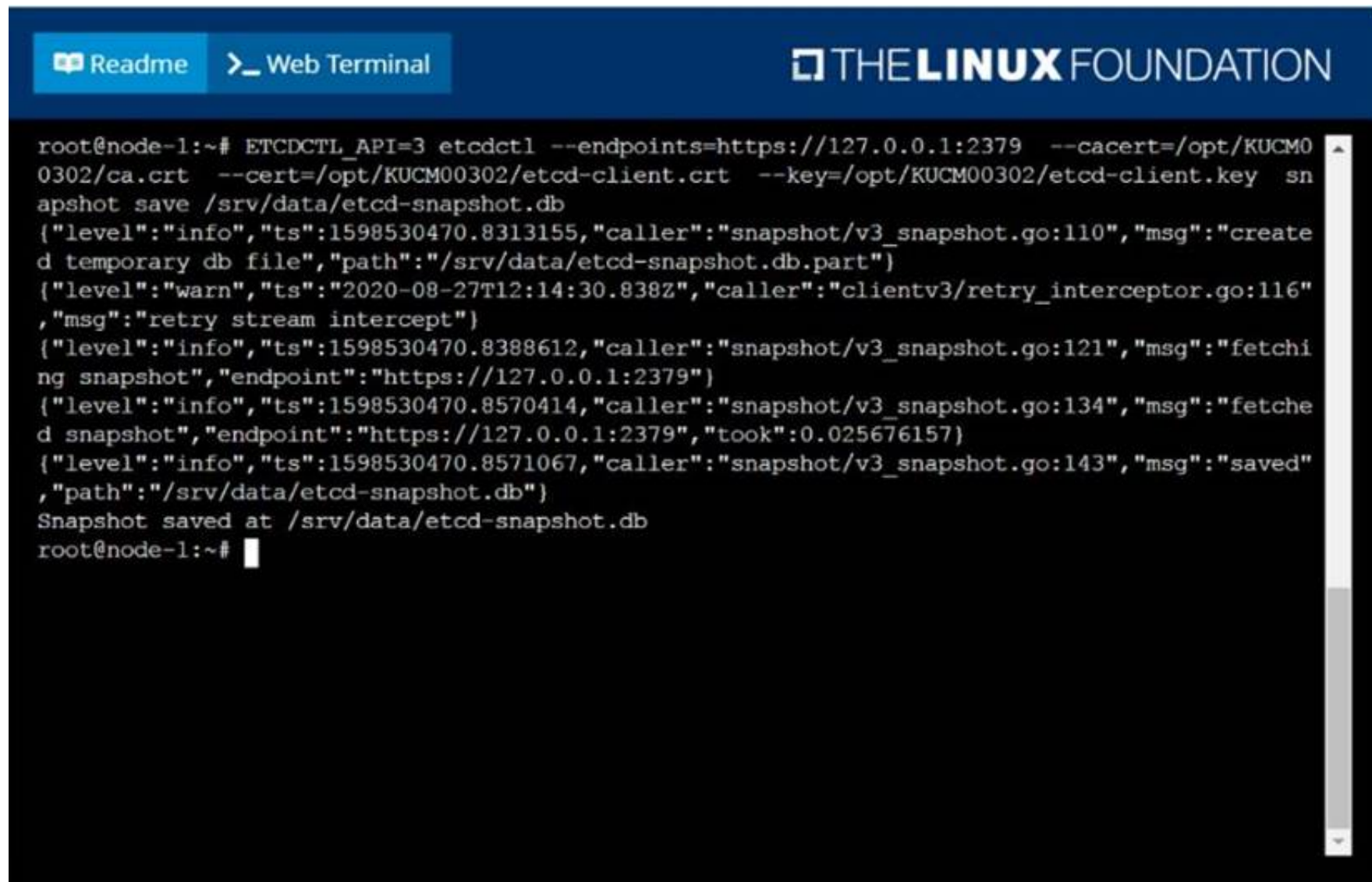
? Client key: Topt/KUCM00302/etcd-client.key

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

solution



```

root@node-1:~# ETCDCTL_API=3 etcdctl --endpoints=https://127.0.0.1:2379 --cacert=/opt/KUCM00302/ca.crt --cert=/opt/KUCM00302/etcd-client.crt --key=/opt/KUCM00302/etcd-client.key snapshot save /srv/data/etcd-snapshot.db
{"level":"info","ts":1598530470.8313155,"caller":"snapshot/v3_snapshot.go:110","msg":"create d temporary db file","path":"/srv/data/etcd-snapshot.db.part"}
{"level":"warn","ts":"2020-08-27T12:14:30.838Z","caller":"clientv3/retry_interceptor.go:116","msg":"retry stream intercept"}
{"level":"info","ts":1598530470.8388612,"caller":"snapshot/v3_snapshot.go:121","msg":"fetching snapshot","endpoint":"https://127.0.0.1:2379"}
{"level":"info","ts":1598530470.8570414,"caller":"snapshot/v3_snapshot.go:134","msg":"fetched snapshot","endpoint":"https://127.0.0.1:2379","took":0.025676157}
{"level":"info","ts":1598530470.8571067,"caller":"snapshot/v3_snapshot.go:143","msg":"saved","path":"/srv/data/etcd-snapshot.db"}
Snapshot saved at /srv/data/etcd-snapshot.db
root@node-1:~#

```

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NEW QUESTION 10

CORRECT TEXT

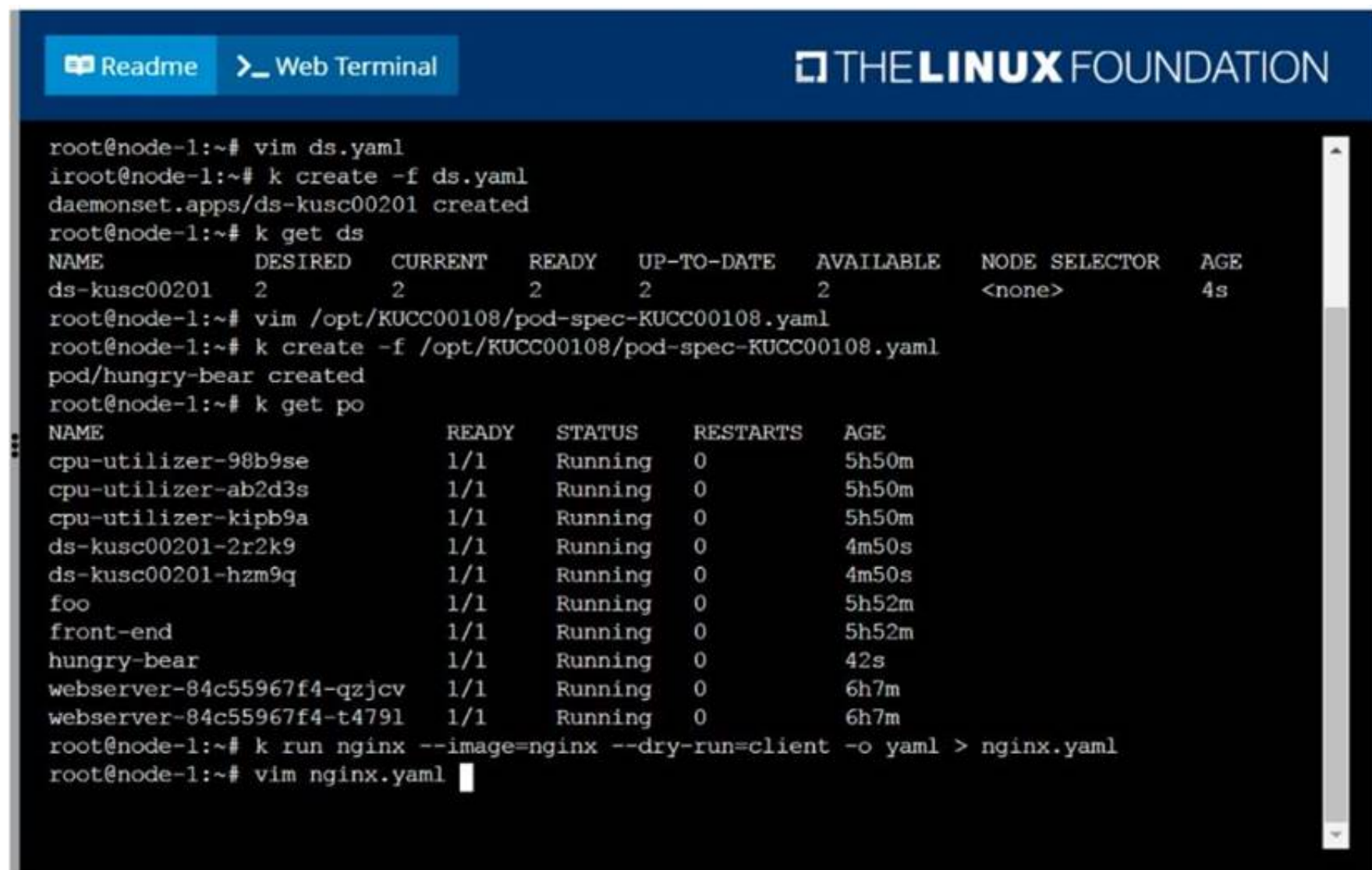
Create a pod named kucc8 with a single app container for each of the following images running inside (there may be between 1 and 4 images specified):
 nginx + redis + memcached.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

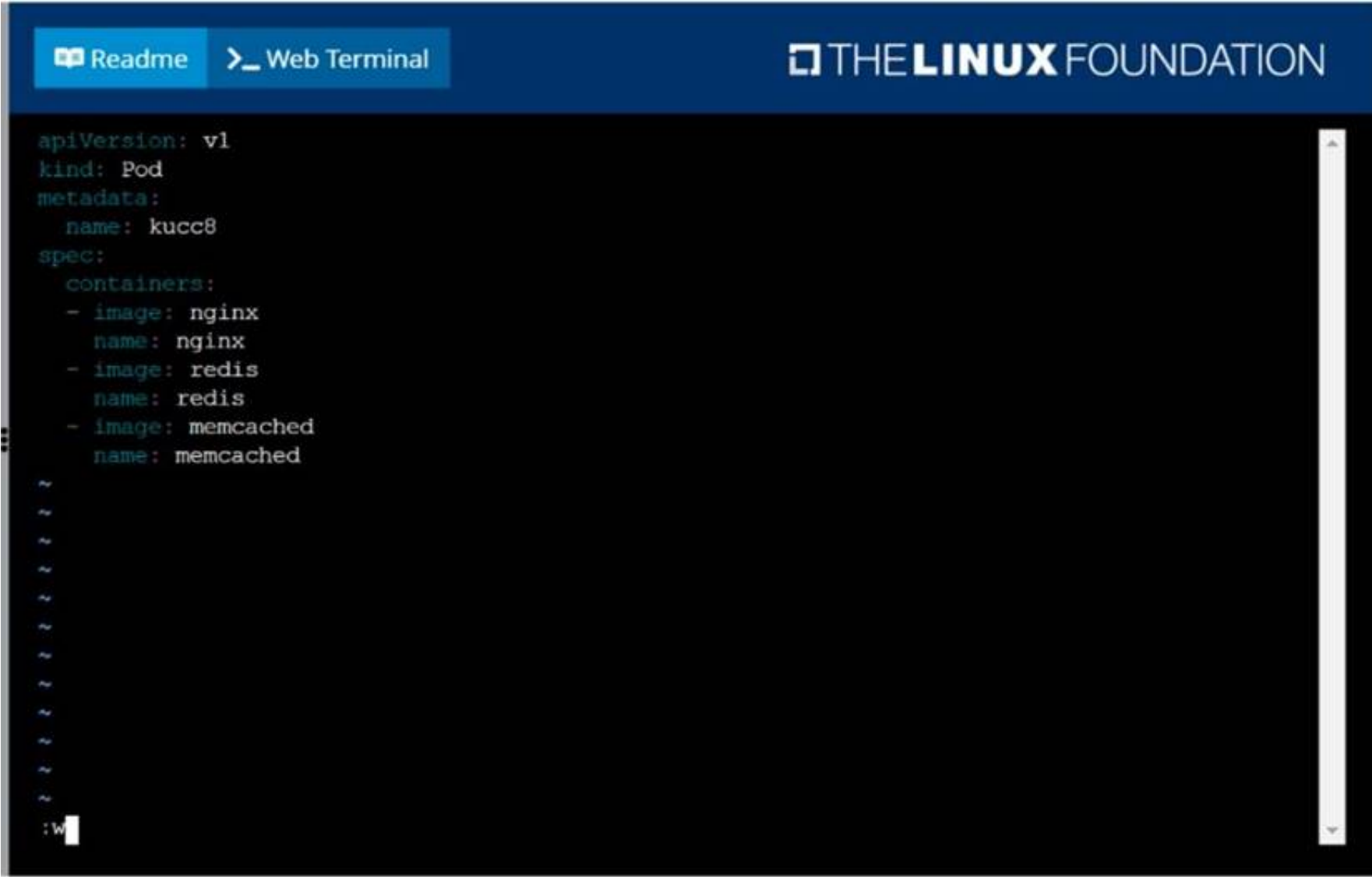


```

root@node-1:~# vim ds.yaml
root@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:~# k get po
NAME                                READY   STATUS    RESTARTS   AGE
cpu-utilizer-98b9se                 1/1     Running   0           5h50m
cpu-utilizer-ab2d3s                 1/1     Running   0           5h50m
cpu-utilizer-kipb9a                 1/1     Running   0           5h50m
ds-kusc00201-2r2k9                  1/1     Running   0           4m50s
ds-kusc00201-hzm9q                  1/1     Running   0           4m50s
foo                                  1/1     Running   0           5h52m
front-end                           1/1     Running   0           5h52m
hungry-bear                         1/1     Running   0           42s
webserver-84c55967f4-qzjcv          1/1     Running   0           6h7m
webserver-84c55967f4-t479l          1/1     Running   0           6h7m
root@node-1:~# k run nginx --image=nginx --dry-run=client -o yaml > nginx.yaml
root@node-1:~# vim nginx.yaml

```

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NEW QUESTION 13

CORRECT TEXT

Create an nginx pod and list the pod with different levels of verbosity

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

// create a pod
kubectl run nginx --image=nginx --restart=Never --port=80
// List the pod with different verbosity
kubectl get po nginx --v=7

```
kubect! get po nginx --v=8
kubect! get po nginx --v=9
```

NEW QUESTION 17

CORRECT TEXT

Create a pod that echo "hello world" and then exists. Have the pod deleted automatically when it's completed

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
kubect! run busybox --image=busybox -it --rm --restart=Never --
/bin/sh -c 'echo hello world'
kubect! get po # You shouldn't see pod with the name "busybox"
```

NEW QUESTION 18

CORRECT TEXT

Create a pod as follows:

- ? Name: non-persistent-redis
- ? container Image: redis
- ? Volume with name: cache-control
- ? Mount path: /data/redis

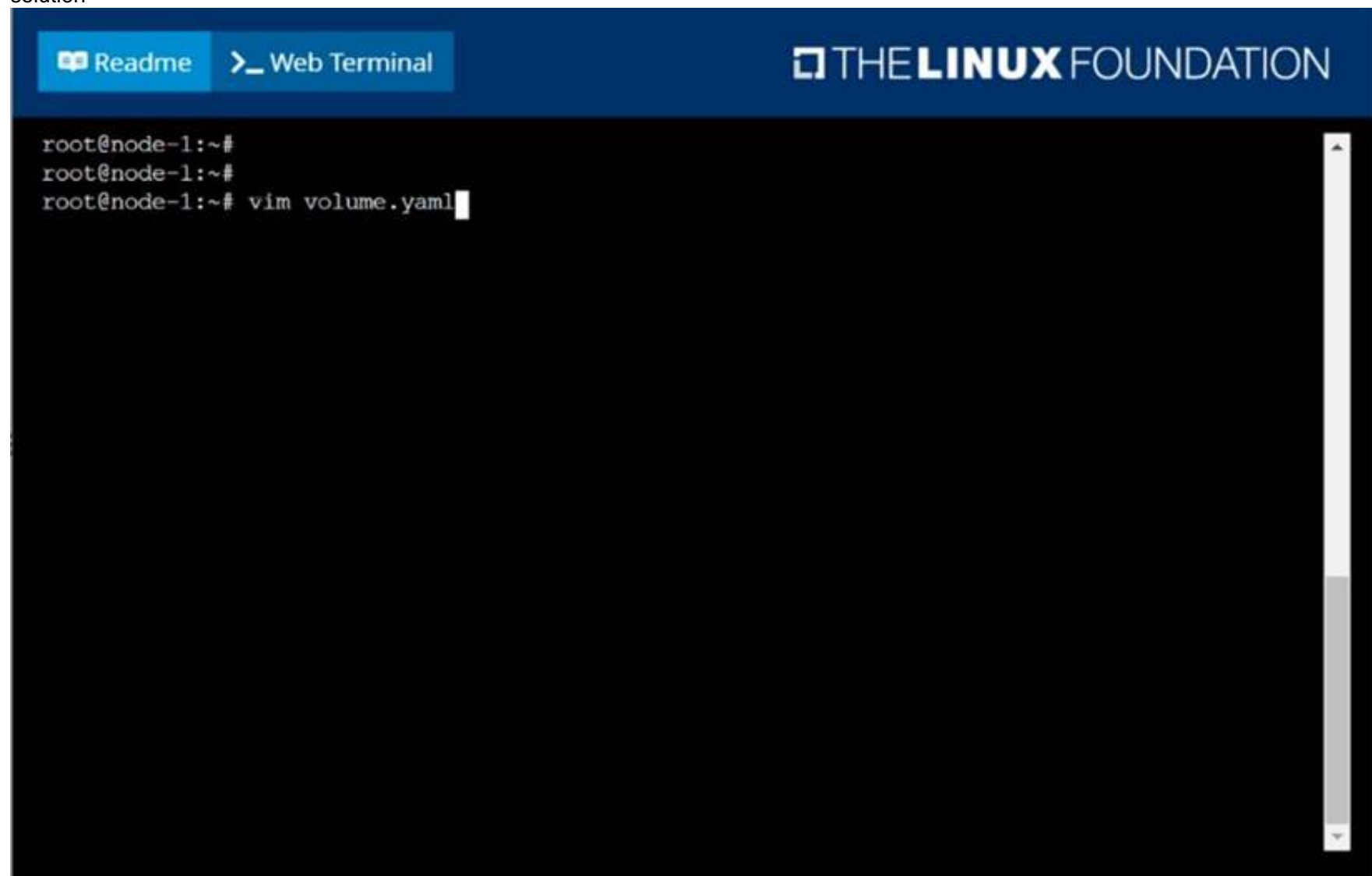
The pod should launch in the staging namespace and the volume must not be persistent.

- A. Mastered
- B. Not Mastered

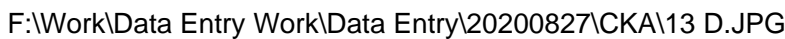
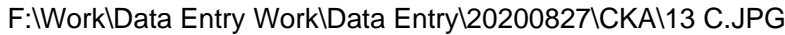
Answer: A

Explanation:

solution



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NEW QUESTION 23
CORRECT TEXT
Score: 4%

**Task**

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 .

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
kubectl run kucc8 --image=nginx --dry-run -o yaml > kucc8.yaml
# vi kucc8.yaml
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  name: kucc8
spec:
  containers:
  - image: nginx
    name: nginx
  - image: redis
    name: redis
  - image: memcached
    name: memcached
  - image: consul
    name: consul
#
kubectl create -f kucc8.yaml
#12.07
```

NEW QUESTION 28**CORRECT TEXT**

Perform the following tasks:

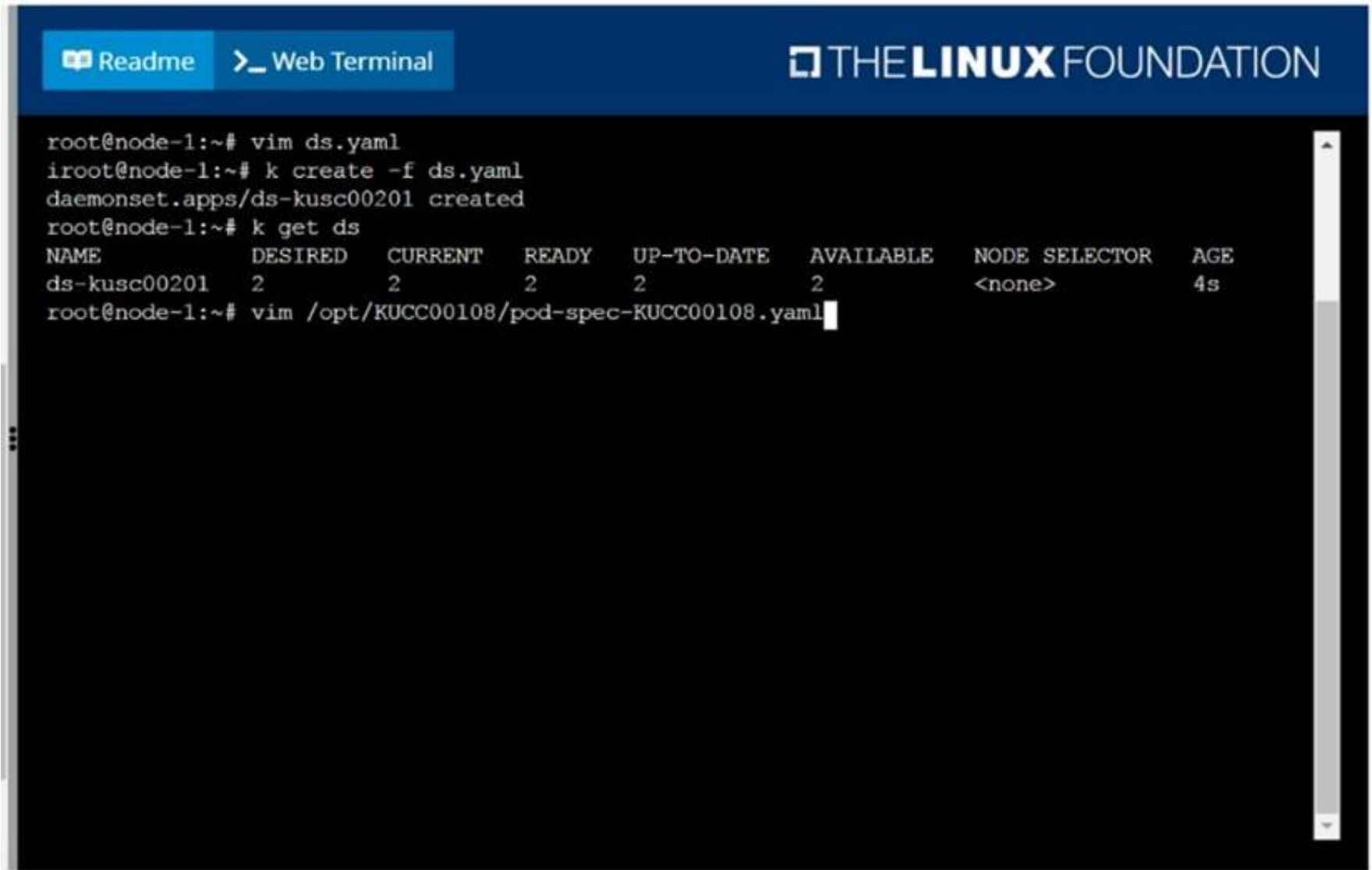
- ? Add an init container to hungry-bear (which has been defined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)
- ? The init container should create an empty file named/workdir/calm.txt
- ? If /workdir/calm.txt is not detected, the pod should exit
- ? Once the spec file has been updated with the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

A.

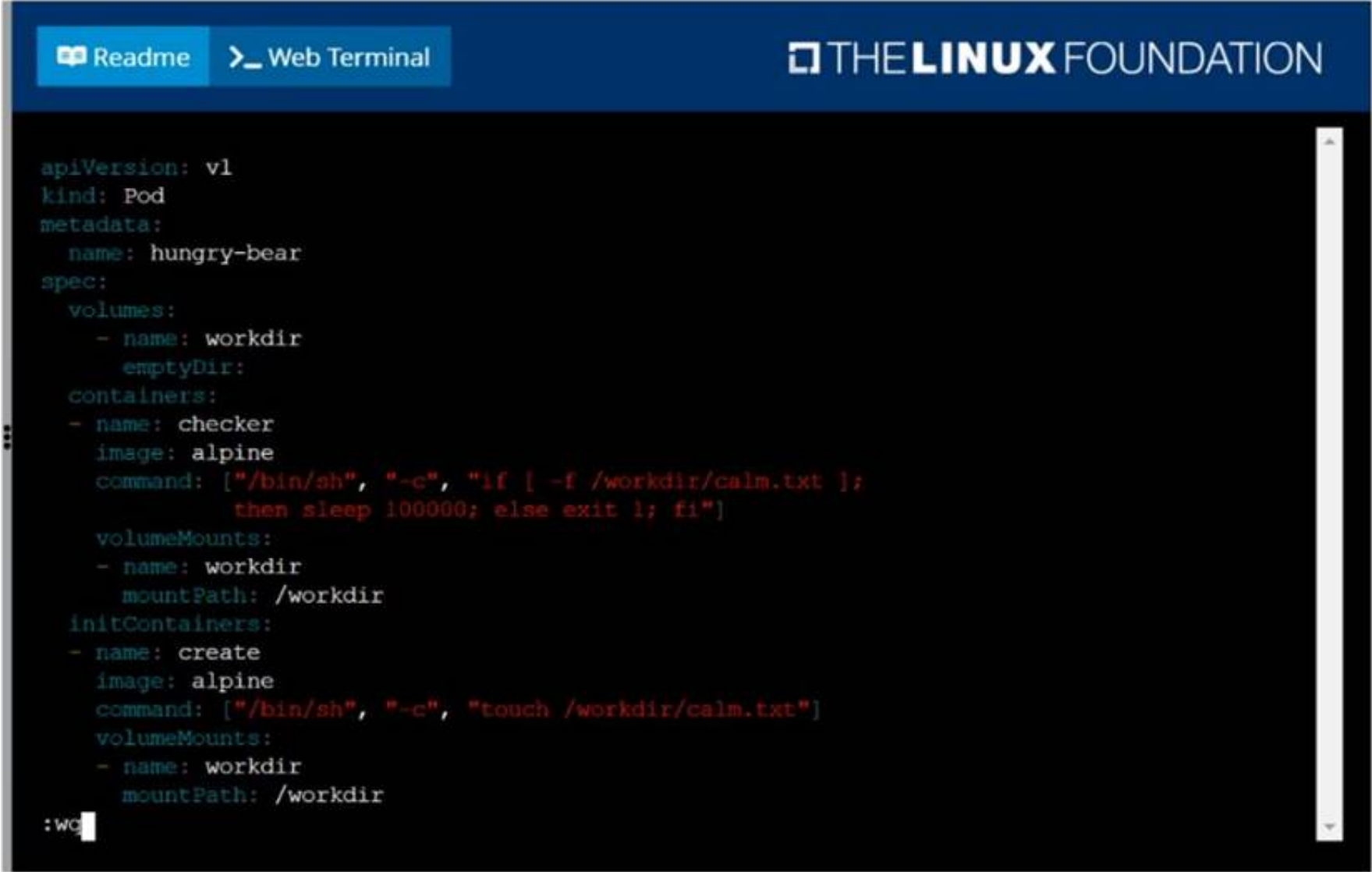
Answer: Seethesolutionbelow.

Explanation:

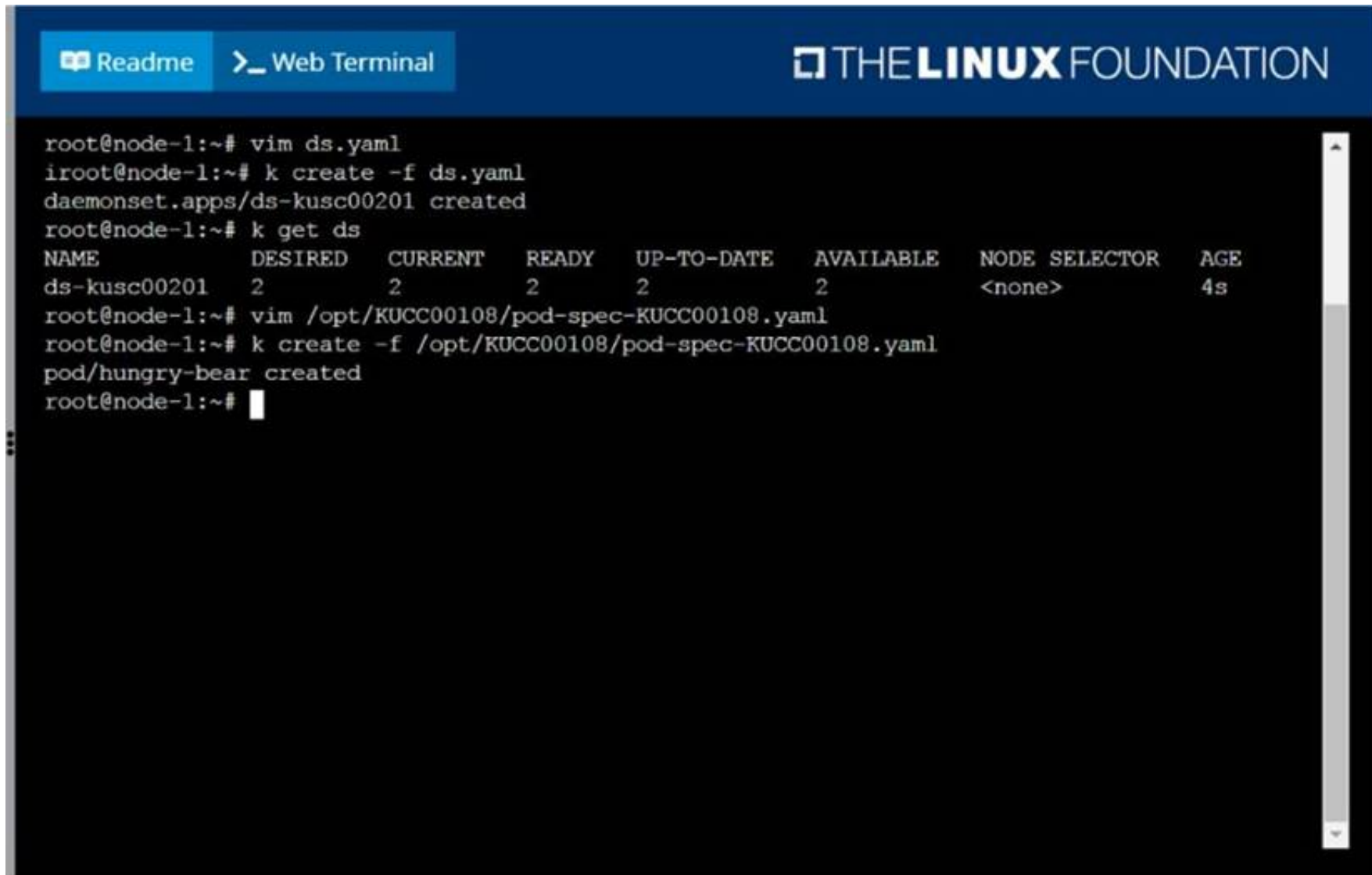
solution



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The screenshot shows a web terminal interface with a dark background. At the top, there is a navigation bar with 'Readme' and 'Web Terminal' tabs, and the 'THE LINUX FOUNDATION' logo on the right. The terminal content shows a series of commands and their outputs:

```
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:~#
```

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NEW QUESTION 31

CORRECT TEXT

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubecttl get pods --sort-by=.metadata.name

NEW QUESTION 33

CORRECT TEXT

Create a persistent volume with name app-data, of capacity 2Gi and access mode ReadWriteMany. The type of volume is hostPath and its location is /srv/app-data.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

Persistent Volume

A persistent volume is a piece of storage in a Kubernetes cluster. PersistentVolumes are a cluster-level resource like nodes, which don't belong to any namespace. It is provisioned by the administrator and has a particular file size. This way, a developer deploying their app on Kubernetes need not know the underlying infrastructure. When the developer needs a certain amount of persistent storage for their application, the system administrator configures the cluster so that they consume the PersistentVolume provisioned in an easy way.

Creating Persistent Volume

kind: PersistentVolumeapiVersion: v1metadata: name:app-dataspec: capacity: # defines the capacity of PV we are creating storage: 2Gi #the amount of storage we are tying to claim accessModes: # defines the rights of the volume we are creating - ReadWriteMany hostPath: path: "/srv/app-data" # path to which we are creating the volume

Challenge

? Create a Persistent Volume named app-data, with access mode ReadWriteMany, storage classname shared, 2Gi of storage capacity and the host path /srv/app-data.

NEW QUESTION 40

CORRECT TEXT

Create a nginx pod with label env=test in engineering namespace

- A. Mastered
- B. Not Mastered

Answer: A**Explanation:**

```
kubectl run nginx --image=nginx --restart=Never --labels=env=test
-- namespace=engineering --dry-run -o yaml > nginx-pod.yaml
kubectl run nginx --image=nginx --restart=Never --labels=env=test --
namespace=engineering --dry-run -o yaml | kubectl create -n engineering -f -
YAML File:
apiVersion: v1
kind: Pod
metadata:
  name: nginx
  namespace: engineering
labels:
  env: test
spec:
  containers:
  - name: nginx
    image: nginx
    imagePullPolicy: IfNotPresent
    restartPolicy: Never
kubectl create -f nginx-pod.yaml
```

NEW QUESTION 45

CORRECT TEXT

Score: 4%



Task

Set the node named ek8s-node-1 as unavailable and reschedule all the pods running on it.

- A. Mastered
- B. Not Mastered

Answer: A**Explanation:**

SOLUTION:

```
[student@node-1] > ssh ek8s
kubectl cordon ek8s-node-1
kubectl drain ek8s-node-1 --delete-local-data --ignore-daemonsets --force
```

NEW QUESTION 50

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