

## Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

<https://www.2passeasy.com/dumps/CKA/>



NEW QUESTION 1

CORRECT TEXT

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

Answer: A

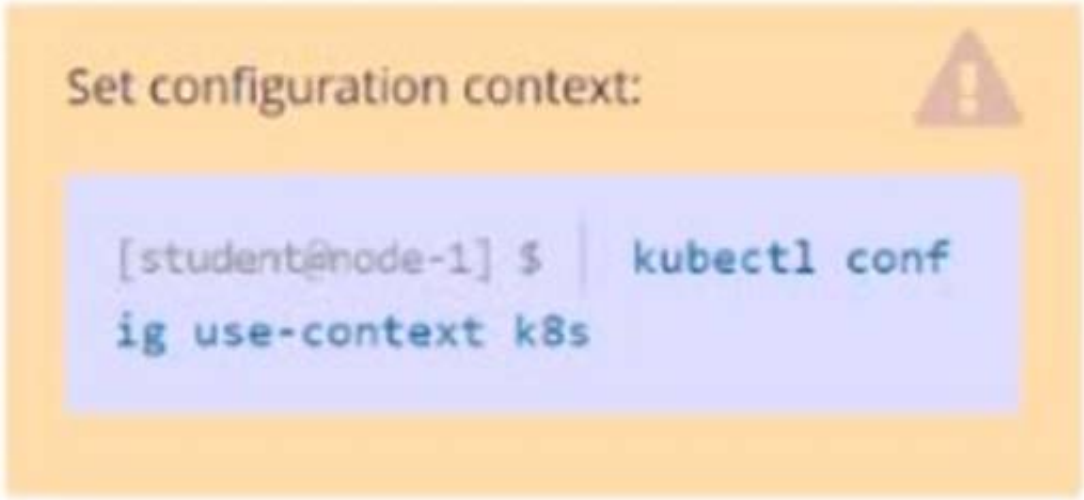
Explanation:

kubect1 get pods --sort-by=.metadata.name

NEW QUESTION 2

CORRECT TEXT

Task Weight: 4%



Task

Schedule a Pod as follows:

- Name: kucc1
- App Containers: 2
- Container Name/Images: o nginx  
o consul

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
student@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
student@node-1:~$ kubectl run kucc1 --image=nginx --dry-run=client -o yaml > aa.y
```



Graphical user interface, text, application  
Description automatically generated

```
student@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
student@node-1:~$ kubectl run kucc1 --image=nginx --dry-run=client -o yaml > aa.yaml
student@node-1:~$ vim aa.yaml
student@node-1:~$ kubectl create -f aa.yaml
pod/kucc1 created
student@node-1:~$ kubectl get pods
NAME                                READY   STATUS              RESTARTS   AGE
ll-factor-app                       1/1     Running             0           6h34m
cpu-loader-98b9se                   1/1     Running             0           6h33m
cpu-loader-ab2d3s                   1/1     Running             0           6h33m
cpu-loader-kipb9a                   1/1     Running             0           6h33m
foobar                              1/1     Running             0           6h34m
front-end-6bc87b9748-24rcm          1/1     Running             0           5m4s
front-end-6bc87b9748-hd5wp          1/1     Running             0           5m2s
kucc1                               0/2     ContainerCreating   0           3s
nginx-kusc00401                     1/1     Running             0           2m28s
webserver-84c89dfd75-2d1jn          1/1     Running             0           6h38m
webserver-84c89dfd75-8d8x2          1/1     Running             0           6h38m
webserver-84c89dfd75-z5zz4          1/1     Running             0           3m51s
student@node-1:~$
```

Text Description automatically generated

### NEW QUESTION 3

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 4

CORRECT TEXT

Score:7%



#### Task

Create a new PersistentVolumeClaim

- Name: pv-volume
- Class: csi-hostpath-sc
- Capacity: 10Mi

Create a new Pod which mounts the PersistentVolumeClaim as a volume:

- Name: web-server
- Image: nginx
- Mount path: /usr/share/nginx/html

Configure the new Pod to have ReadWriteOnce access on the volume.

Finally, using kubectl edit or kubectl patch expand the PersistentVolumeClaim to a capacity of 70Mi and record that change.

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

Solution:

vi pvc.yaml

storageclass pvc

apiVersion: v1

kind: PersistentVolumeClaim

metadata:

```
name: pv-volume
spec:
accessModes:
- ReadWriteOnce
volumeMode: Filesystem
resources:
requests:
storage: 10Mi
storageClassName: csi-hostpath-sc
# vi pod-pvc.yaml
apiVersion: v1
kind: Pod
metadata:
name: web-server
spec:
containers:
- name: web-server
image: nginx
volumeMounts:
- mountPath: "/usr/share/nginx/html"
name: my-volume
volumes:
- name: my-volume
persistentVolumeClaim:
claimName: pv-volume
# craete
kubectl create -f pod-pvc.yaml
#edit
kubectl edit pvc pv-volume --record
```

#### NEW QUESTION 5

CORRECT TEXT

Score: 7%



#### Task

Given an existing Kubernetes cluster running version 1.20.0, upgrade all of the Kubernetes control plane and node components on the master node only to version 1.20.1.

Be sure to drain the master node before upgrading it and uncordon it after the upgrade.

You can ssh to the master node using:

```
[student@node-1] $ | ssh
mk8s-master-0
```

You can assume elevated privileges on the master node with the following command:

```
[student@mk8s-master-0] |
$
sudo -i
```

You are also expected to upgrade kubelet and kubectl on the master node.

Do not upgrade the worker nodes, etcd, the container manager, the CNI plugin, the DNS service or any other addons.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

SOLUTION:

```
[student@node-1] > ssh ek8s
kubectl cordon k8s-master
kubectl drain k8s-master --delete-local-data --ignore-daemonsets --force
apt-get install kubeadm=1.20.1-00 kubelet=1.20.1-00 kubectl=1.20.1-00 --
disableexcludes=kubernetes
kubeadm upgrade apply 1.20.1 --etcd-upgrade=false
systemctl daemon-reload
systemctl restart kubelet kubectl
uncordon k8s-master
```

**NEW QUESTION 6**

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 7**

CORRECT TEXT

Score: 4%



Context

You have been asked to create a new ClusterRole for a deployment pipeline and bind it to a specific ServiceAccount scoped to a specific namespace.

Task

Create a new ClusterRole named deployment-clusterrole, which only allows to create the following resource types:

- Deployment
- StatefulSet
- DaemonSet

Create a new ServiceAccount named cicd-token in the existing namespace app-team1. Bind the new ClusterRole deployment-clusterrole to the new ServiceAccount cicd-token , limited to the namespace app-team1.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:

Task should be complete on node k8s -1 master, 2 worker for this connect use command [student@node-1] > ssh k8s

kubectl create clusterrole deployment-clusterrole --verb=create -- resource=deployments,statefulsets,daemonsets

kubectl create serviceaccount cicd-token --namespace=app-team1

kubectl create rolebinding deployment-clusterrole --clusterrole=deployment-clusterrole -- serviceaccount=default:cicd-token --namespace=app-team1

**NEW QUESTION 8**

CORRECT TEXT

Create a deployment as follows:

? Name: nginx-random

? Exposed via a service nginx-random

? Ensure that the service & pod are accessible via their respective DNS records

? The container(s) within any pod(s) running as a part of this deployment should use the nginx Image

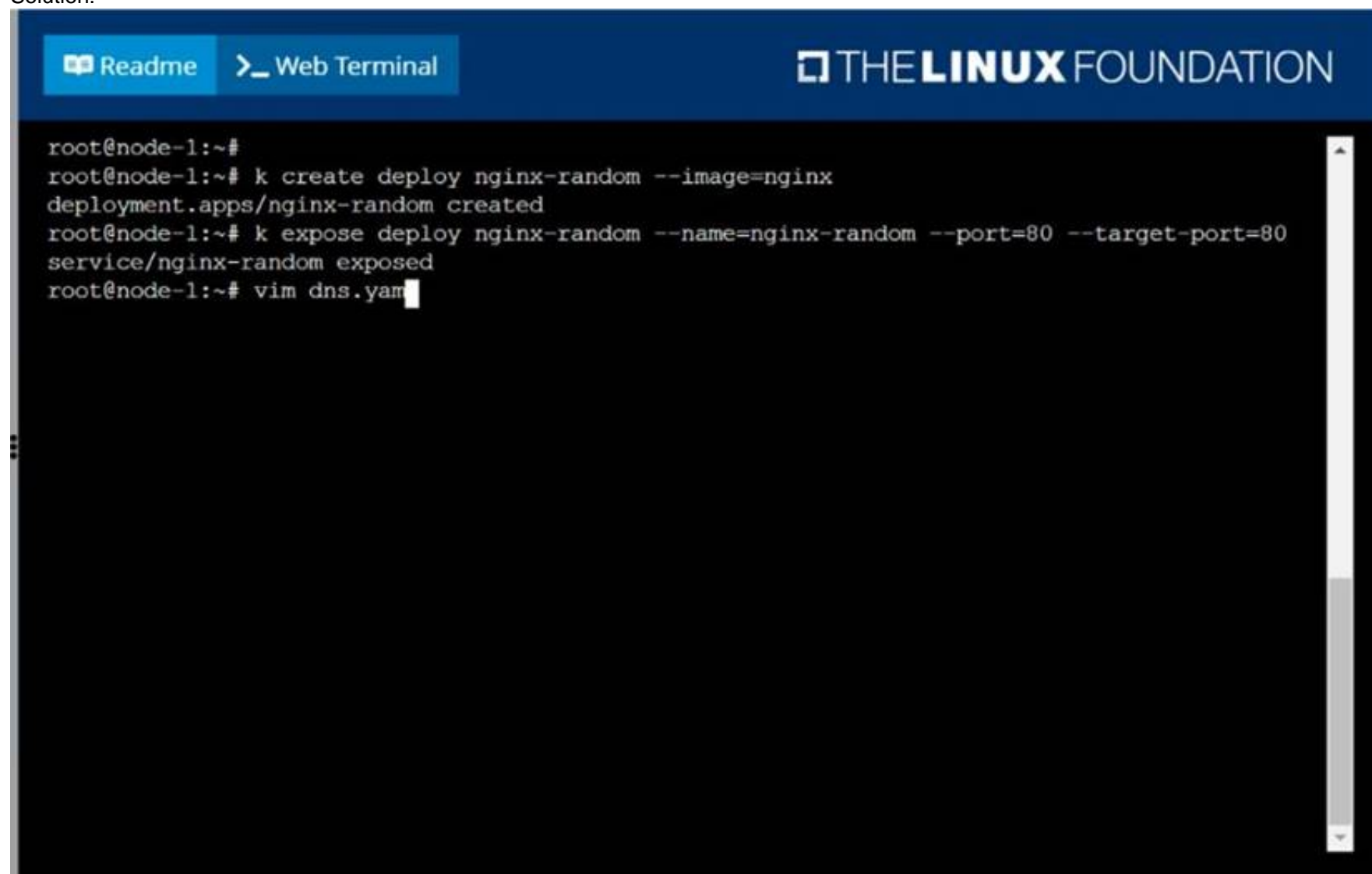
Next, use the utility nslookup to look up the DNS records of the service & pod and write the output to /opt/KUNW00601/service.dns and /opt/KUNW00601/pod.dns respectively.

- A. Mastered
- B. Not Mastered

**Answer:** A

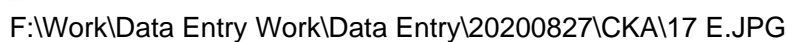
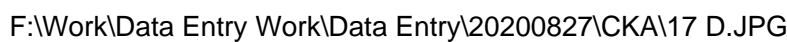
**Explanation:**

Solution:



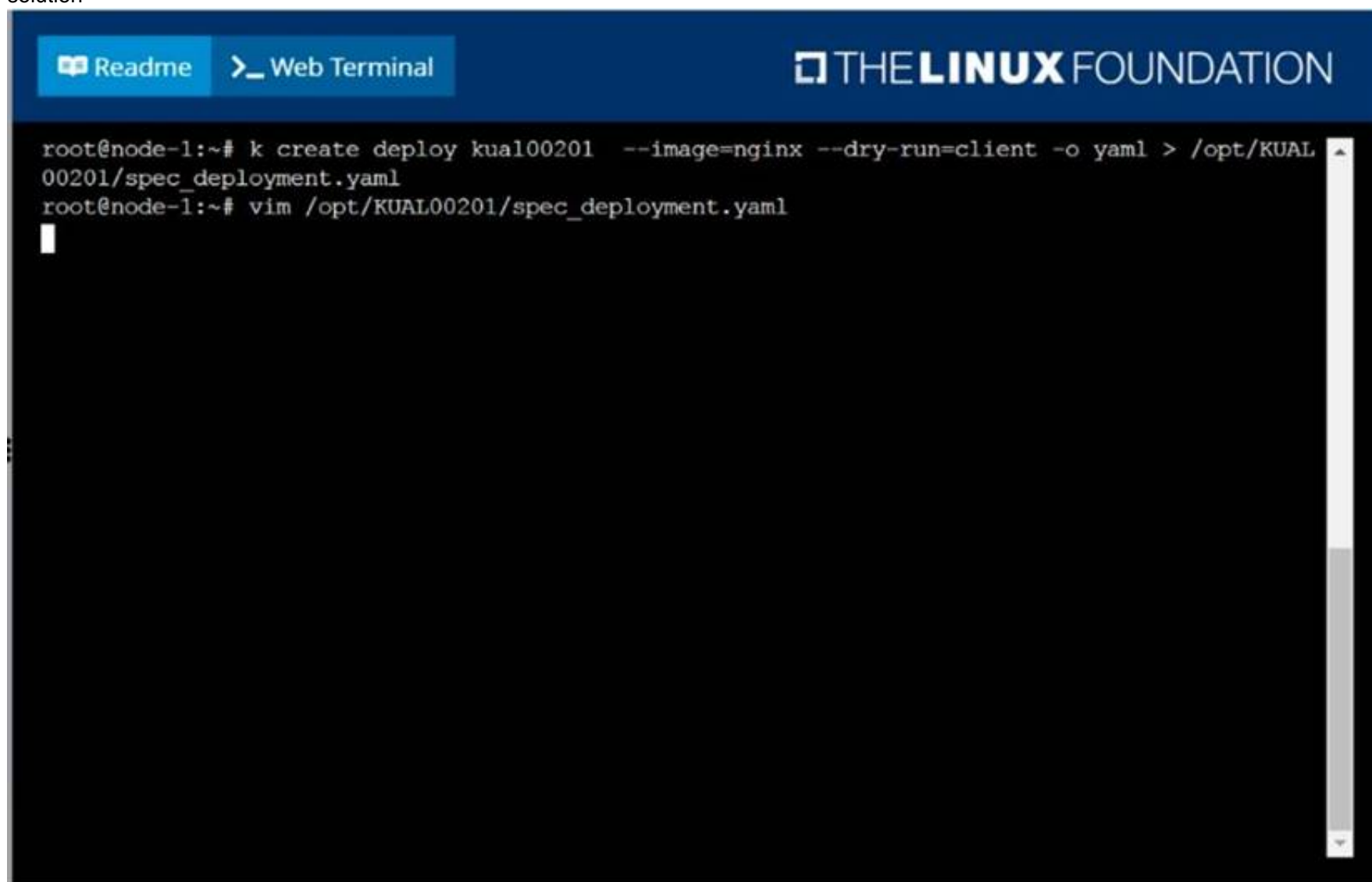
```
root@node-1:~#
root@node-1:~# k create deploy nginx-random --image=nginx
deployment.apps/nginx-random created
root@node-1:~# k expose deploy nginx-random --name=nginx-random --port=80 --target-port=80
service/nginx-random exposed
root@node-1:~# vim dns.yaml
```

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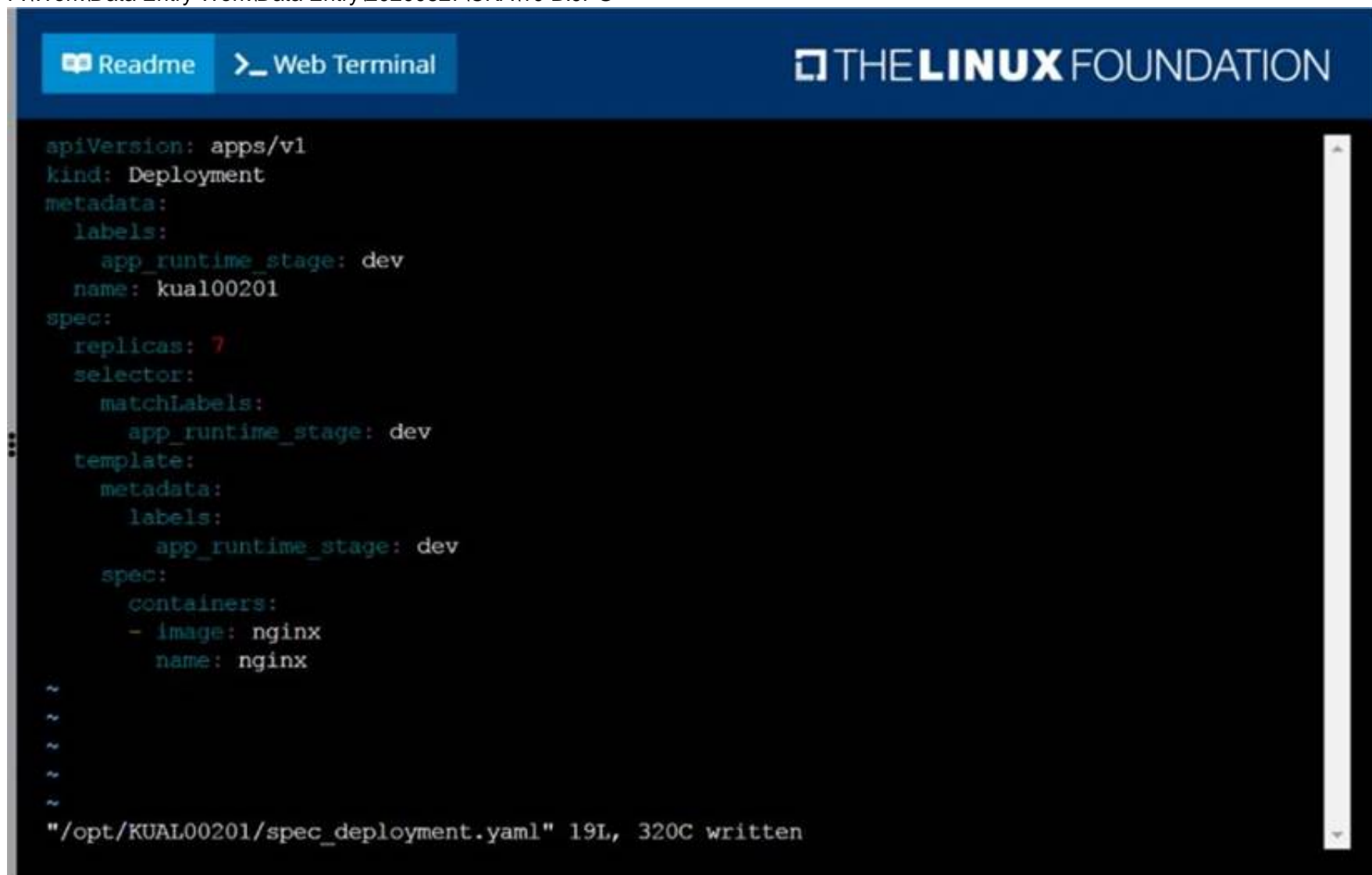
Explanation:  
solution



The screenshot shows a web terminal window with a dark background. At the top, there is a blue header bar with the text "THE LINUX FOUNDATION" on the right. Below the header, there are two tabs: "Readme" and "Web Terminal". The terminal content shows the following commands and output:

```
root@node-1:~# k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL
00201/spec_deployment.yaml
root@node-1:~# vim /opt/KUAL00201/spec_deployment.yaml
```

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The screenshot shows a web terminal window with a dark background. At the top, there is a blue header bar with the text "THE LINUX FOUNDATION" on the right. Below the header, there are two tabs: "Readme" and "Web Terminal". The terminal content shows the following YAML configuration:

```
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
```

At the bottom of the terminal, it says: `"/opt/KUAL00201/spec_deployment.yaml" 19L, 320C written`

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**NEW QUESTION 10**  
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 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

Readme
Web Terminal

```

root@node-1:~# ETCDCCTL_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":"fetchi ng snapshot","endpoint":"https://127.0.0.1:2379"}
{"level":"info","ts":1598530470.8570414,"caller":"snapshot/v3_snapshot.go:134","msg":"fetche d 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 11

CORRECT TEXT

Score: 7%



Task  
 Reconfigure the existing deployment front-end and add a port specification named http exposing port 80/tcp of the existing container nginx.  
 Create a new service named front-end-svc exposing the container port http.  
 Configure the new service to also expose the individual Pods via a NodePort on the nodes on which they are scheduled.

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

Solution:  
 kubectl get deploy front-end  
 kubectl edit deploy front-end -o yaml  
 #port specification named http  
 #service.yaml  
 apiVersion: v1  
 kind: Service  
 metadata:  
 name: front-end-svc  
 labels:  
 app: nginx  
 spec:  
 ports:  
 - port: 80  
 protocol: tcp

```
name: http
selector:
app: nginx
type: NodePort
# kubectl create -f service.yaml
# kubectl get svc
# port specification named http
kubectl expose deployment front-end --name=front-end-svc --port=80 --target-port=80 -- type=NodePort
```

## NEW QUESTION 12

### CORRECT TEXT

For this item, you will have to ssh to the nodes ik8s-master-0 and ik8s-node-0 and complete all tasks on these nodes. Ensure that you return to the base node (hostname: node-1) when you have completed this item.

### Context

As an administrator of a small development team, you have been asked to set up a Kubernetes cluster to test the viability of a new application.

### Task

You must use kubeadm to perform this task. Any kubeadm invocations will require the use of the --ignore-preflight-errors=all option.

? Configure the node ik8s-master-0 as a master node. .

? Join the node ik8s-node-0 to the cluster.

- A. Mastered
- B. Not Mastered

Answer: A

### Explanation:

#### solution

You must use the kubeadm configuration file located at /etc/kubeadm.conf when initializing your cluster.

You may use any CNI plugin to complete this task, but if you don't have your favourite CNI plugin's manifest URL at hand, Calico is one popular option:

<https://docs.projectcalico.org/v3.14/manifests/calico.yaml>

Docker is already installed on both nodes and apt has been configured so that you can install the required tools.

## NEW QUESTION 14

### CORRECT TEXT

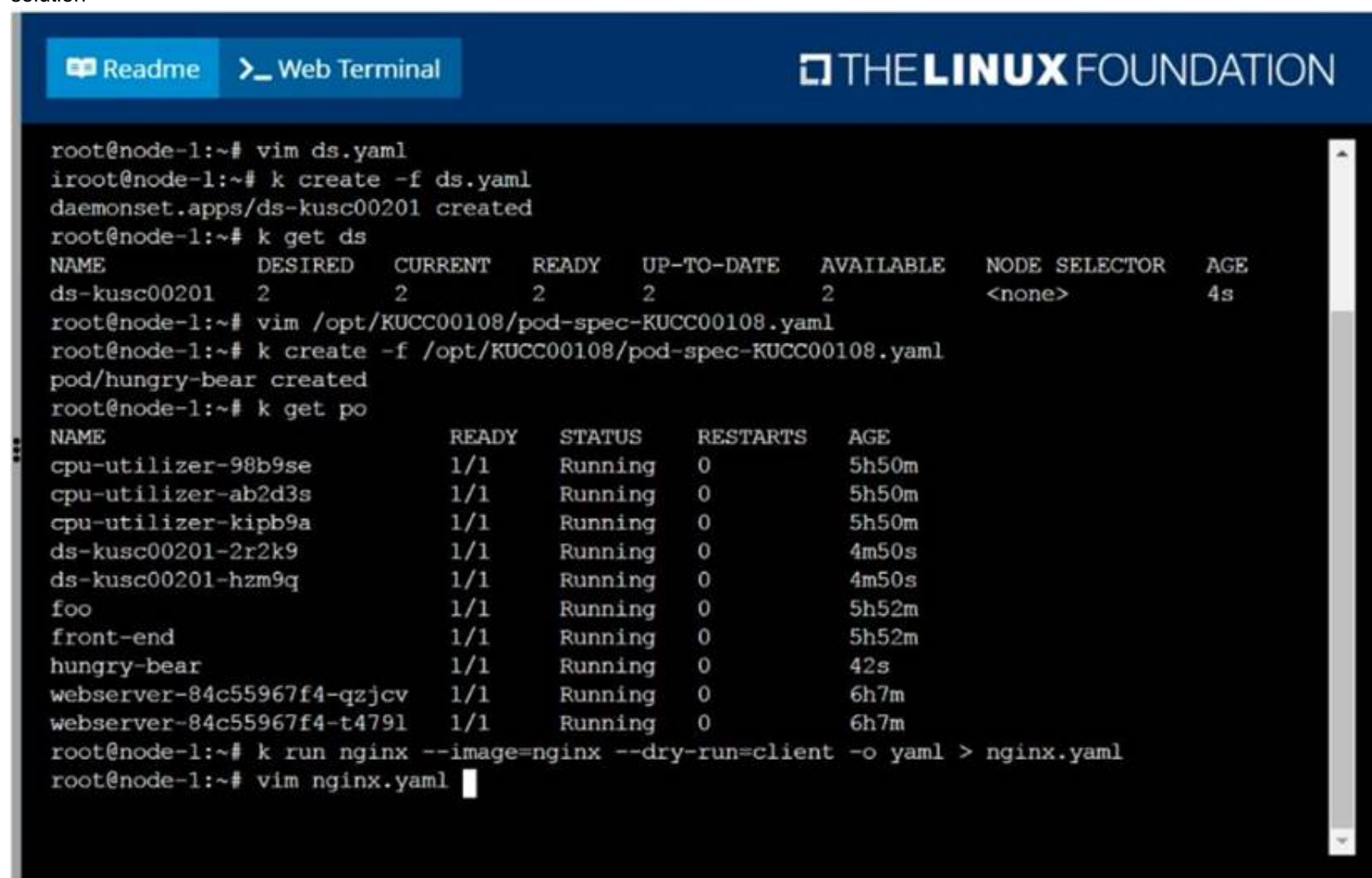
Create a pod named kucc8 with a single app container for each of the following images running inside (there may be between 1 and 4 images specified):  
 nginx + redis + memcached.

- A. Mastered
- B. Not Mastered

Answer: A

### Explanation:

#### solution

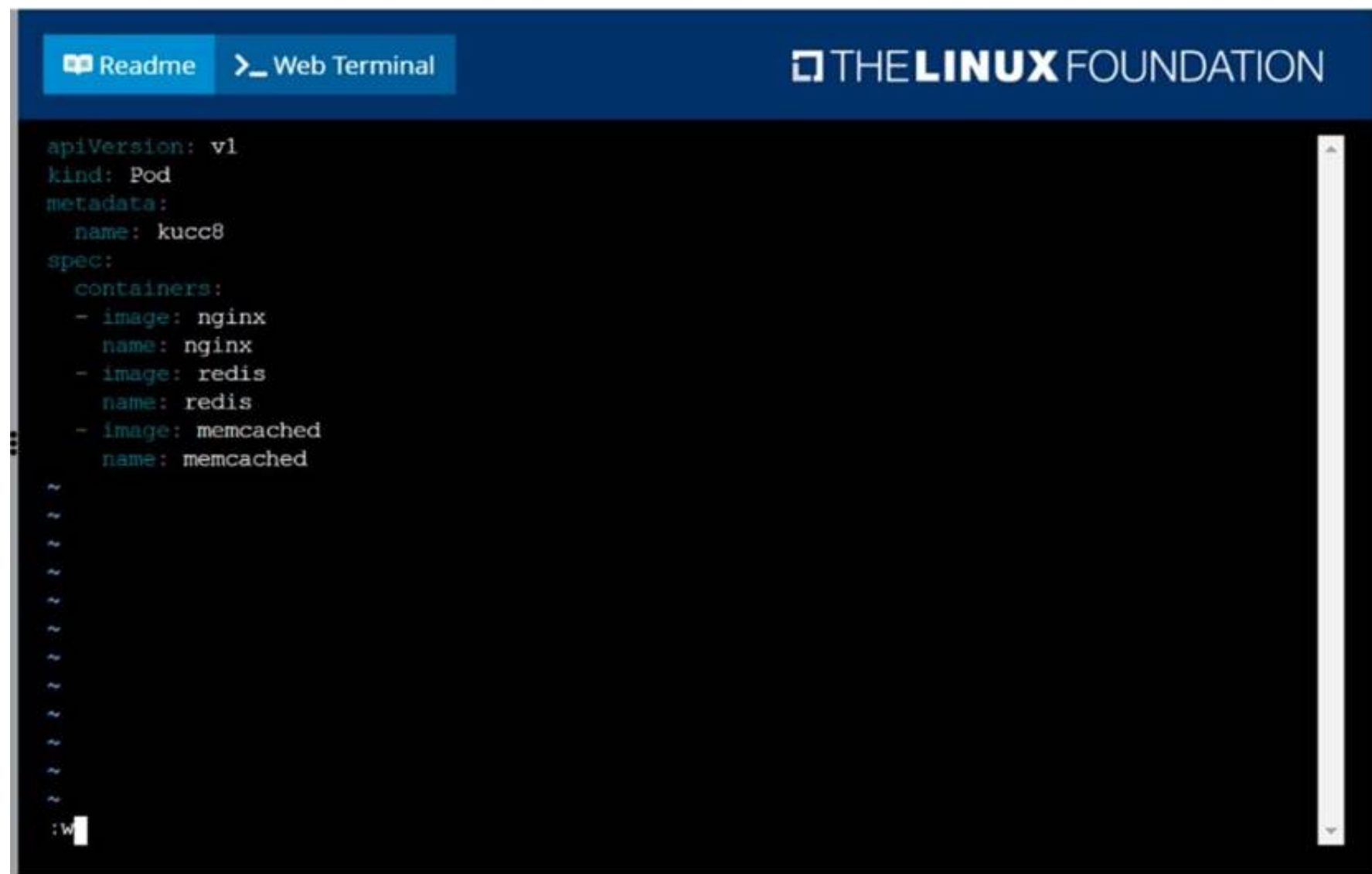


The screenshot shows a web terminal interface with a blue header containing 'Readme' and 'Web Terminal' tabs, and 'THE LINUX FOUNDATION' logo. The terminal output shows the following commands and results:

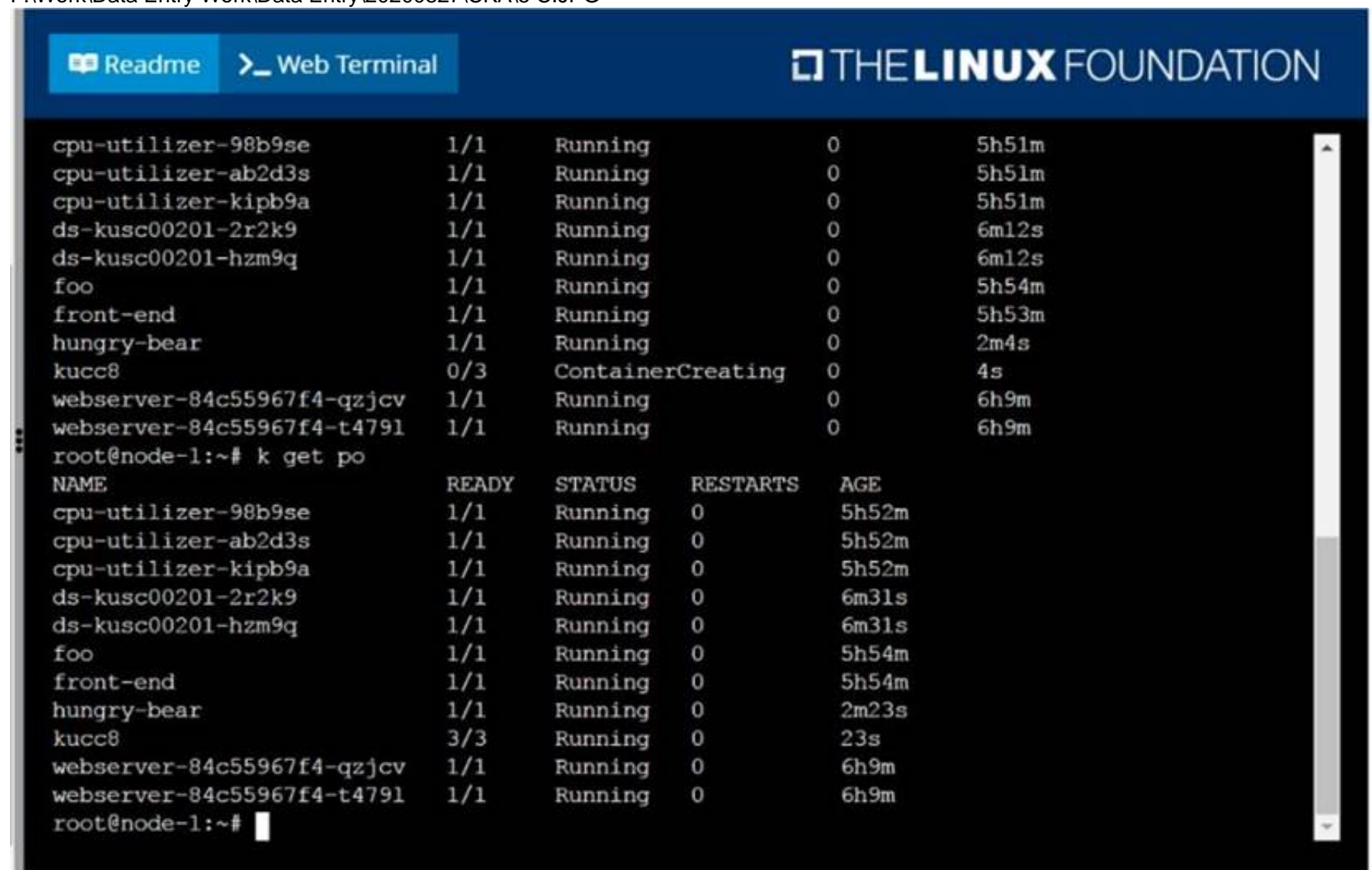
```
root@node-1:~# vim ds.yaml
root@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
NAME           DESIRED   CURRENT   READY   UP-TO-DATE   AVAILABLE   NODE SELECTOR   AGE
ds-kusc00201    2         2         2       2             2           <none>          4s
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 15

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

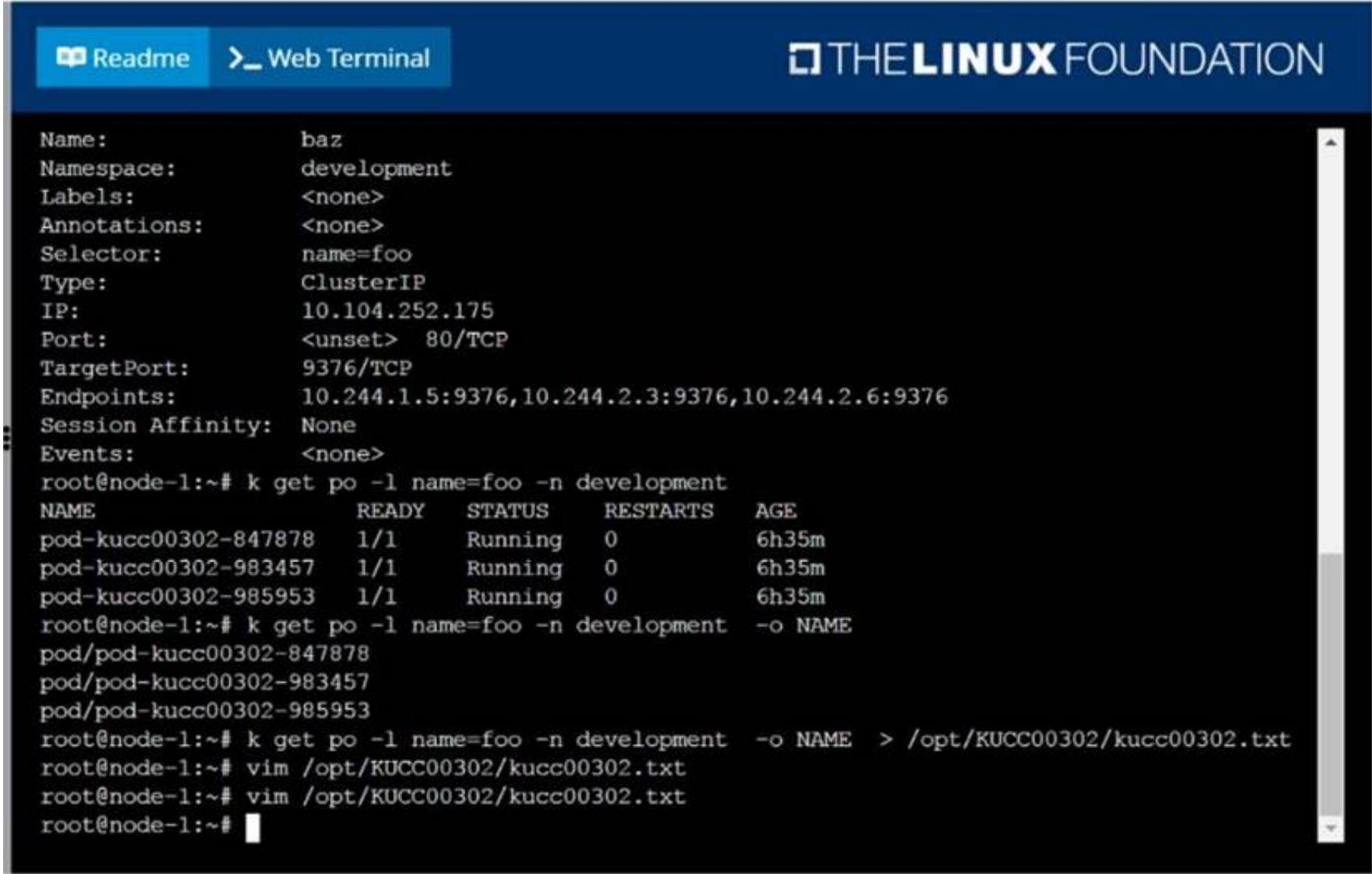


solution

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A screenshot of a web terminal interface. The top bar is dark blue with two buttons on the left: 'Readme' (with a document icon) and '>\_ Web Terminal'. On the right side of the top bar is the 'THE LINUX FOUNDATION' logo. The main area is a black terminal window. It displays a list of pod names: 'pod-kucc00302-847878', 'pod-kucc00302-983457', and 'pod-kucc00302-985953'. Below these are several tilde characters '~'. At the bottom left of the terminal, the text ': WG' is visible. A vertical scrollbar is located on the right side of the terminal window.

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#### NEW QUESTION 25

##### CORRECT TEXT

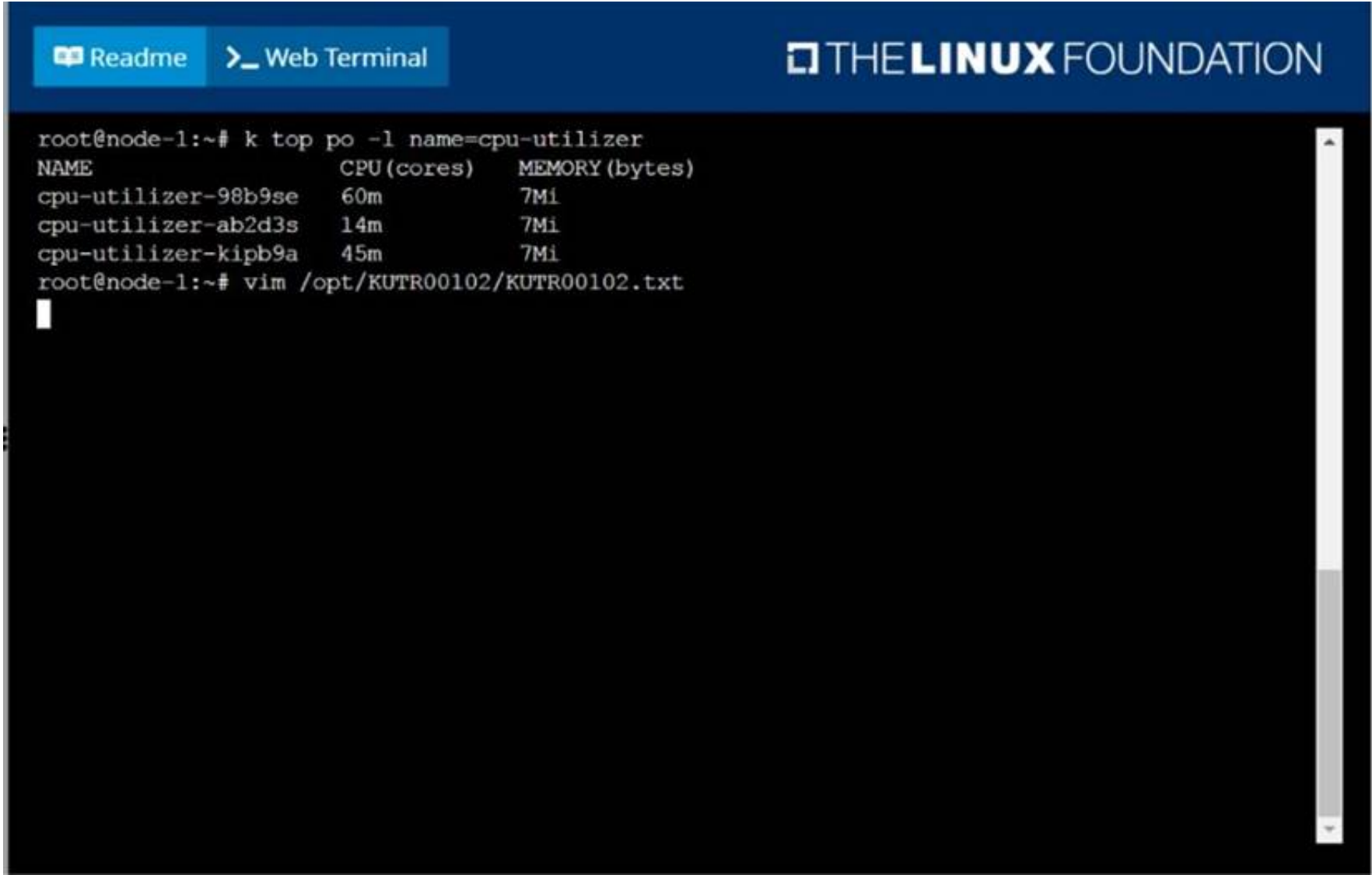
From the pod label name=cpu-utilizer, find pods running high CPU workloads and write the name of the pod consuming most CPU to the file /opt/KUTR00102/KUTR00102.txt (which already exists).

A.

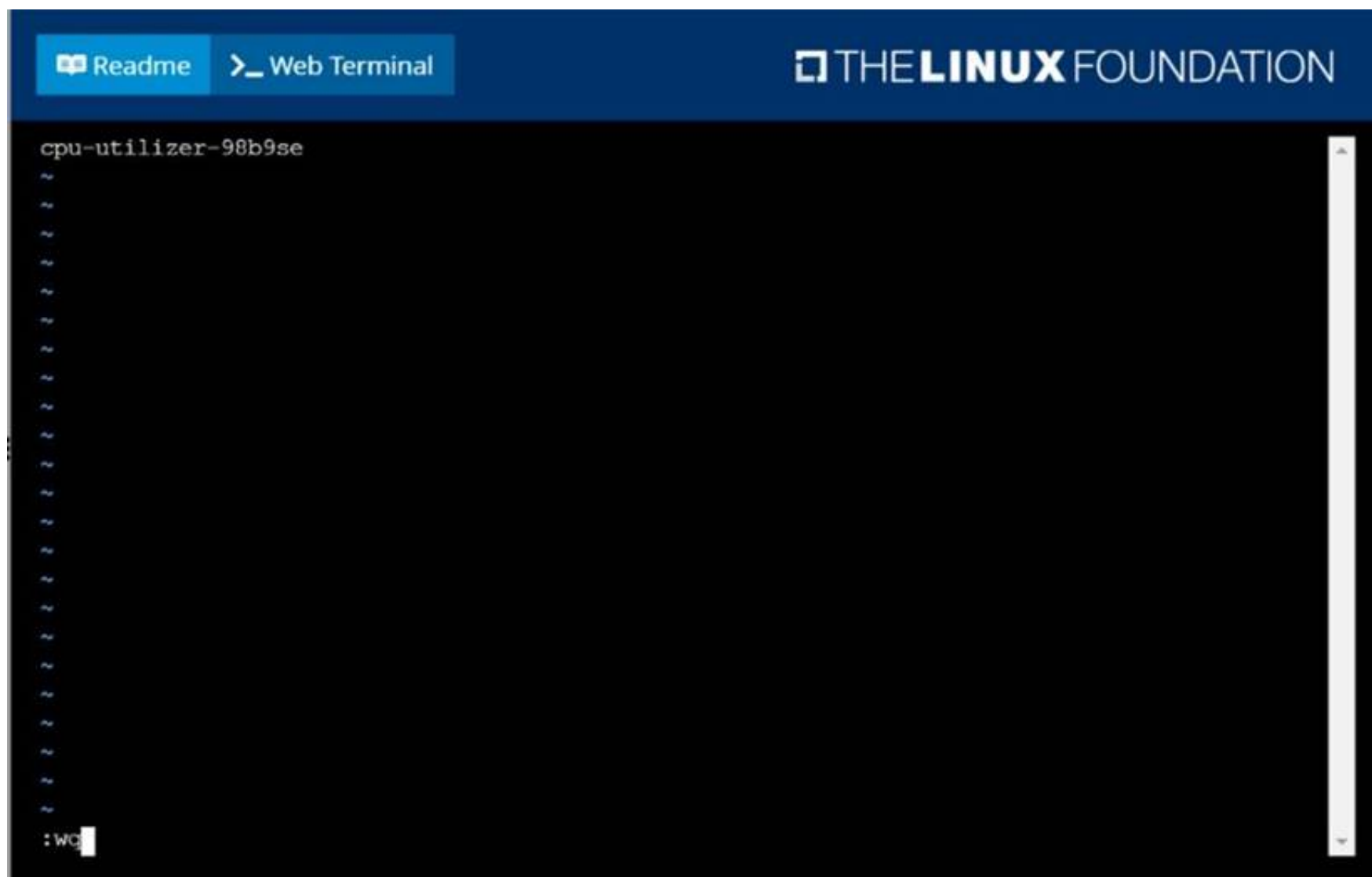
**Answer:** Seethesolutionbelow.

##### Explanation:

solution



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#### NEW QUESTION 30

CORRECT TEXT

Create a pod as follows:

? Name: mongo

? Using Image: mongo

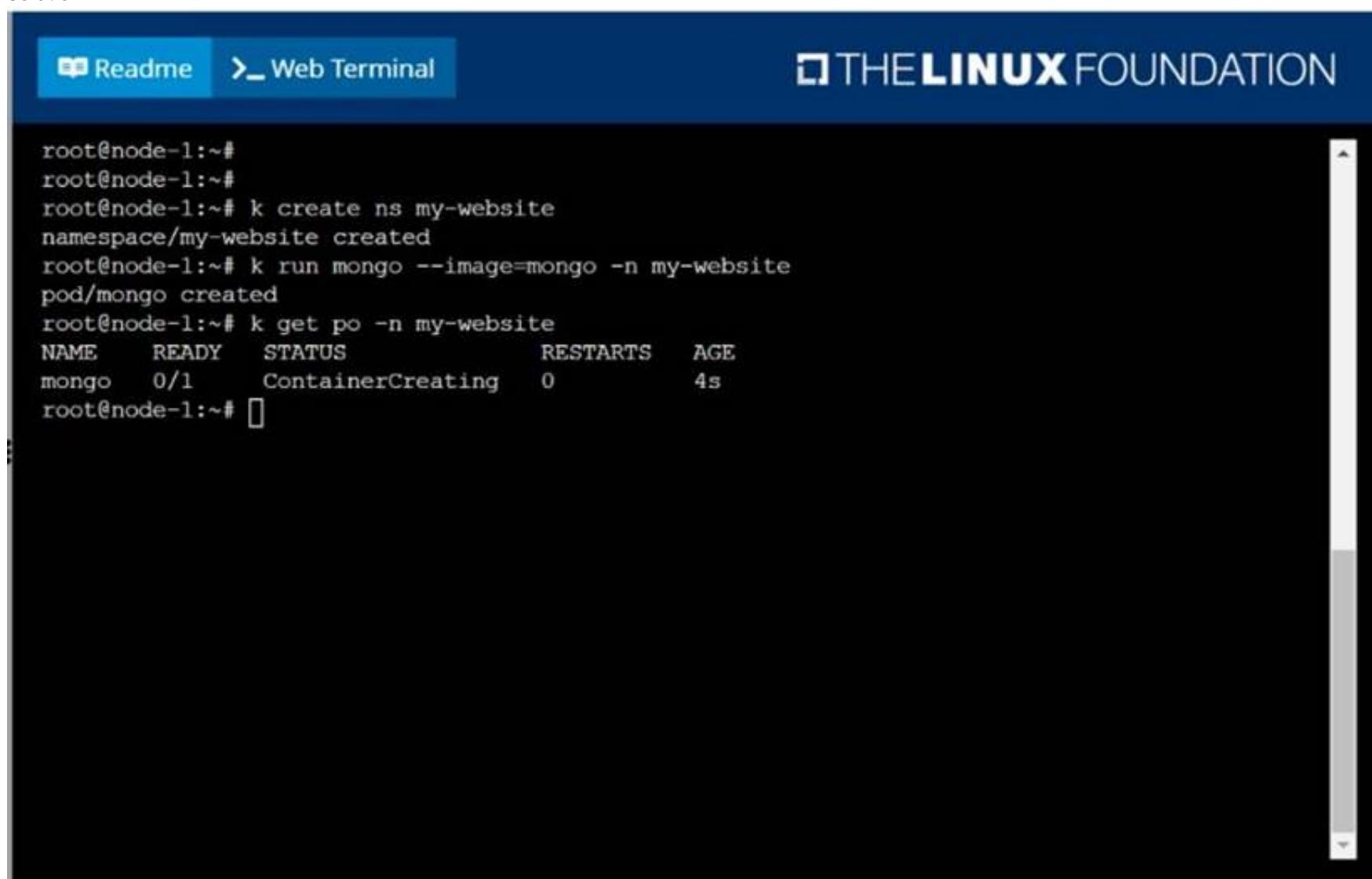
? In a new Kubernetes namespace named: my-website

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution



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#### NEW QUESTION 34

CORRECT TEXT

Score: 4%



Task

Scale the deployment presentation to 6 pods.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:

kubectl get deployment

kubectl scale deployment.apps/presentation --replicas=6

#### NEW QUESTION 36

CORRECT TEXT

Create a deployment as follows:

? Name: nginx-app

? Using container nginx with version 1.11.10-alpine

? 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.

- A. Mastered
- B. Not Mastered

**Answer:** A

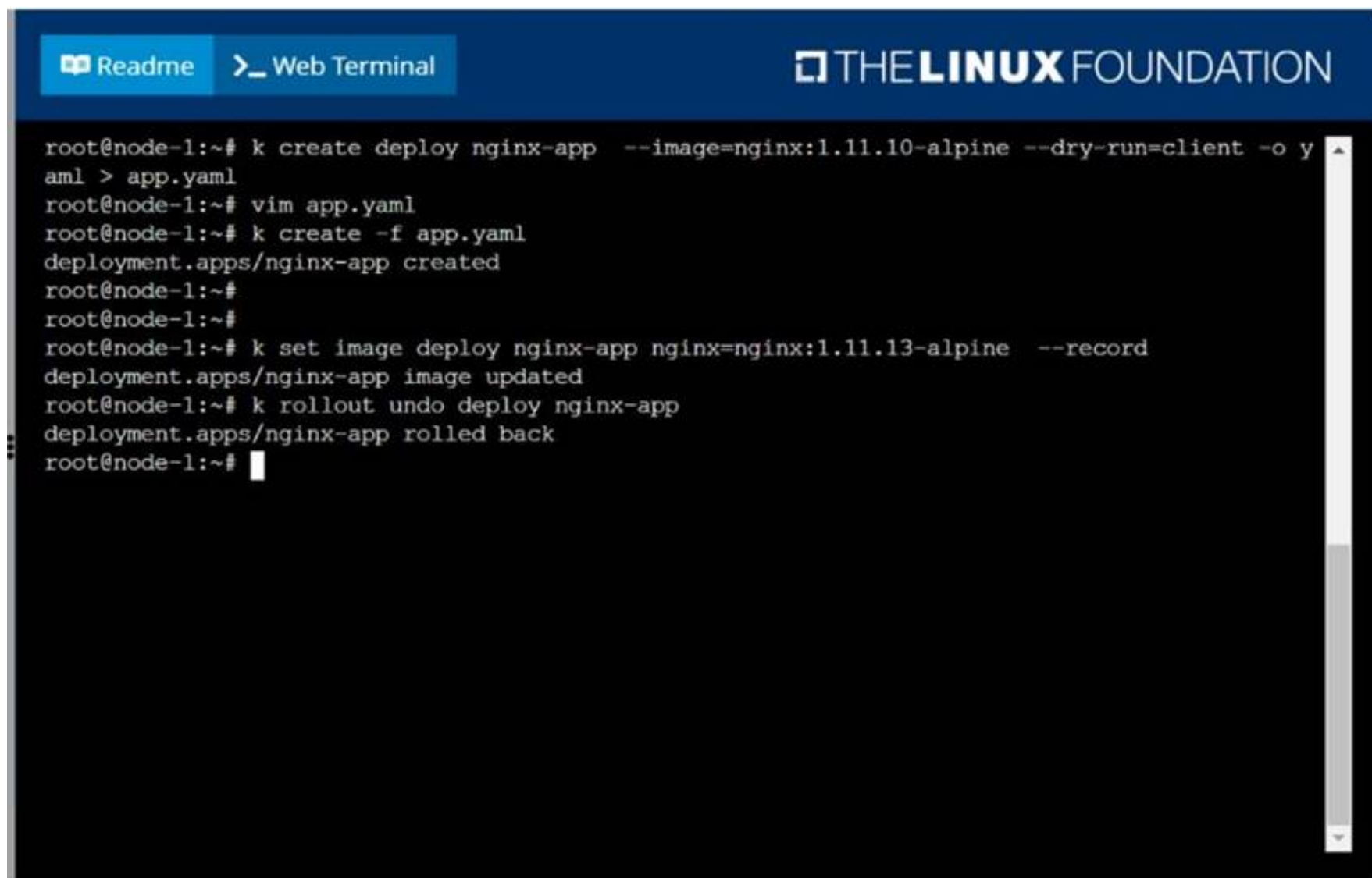
**Explanation:**

solution









The screenshot shows a web terminal window with a dark background and light blue text. At the top, there are two tabs: 'Readme' and 'Web Terminal'. The 'Web Terminal' tab is active. The terminal output shows a series of Kubernetes commands and their outputs:

```

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:~#

```

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#### NEW QUESTION 41

CORRECT TEXT

Get list of all the pods showing name and namespace with a jsonpath expression.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

kubectl get pods -o=jsonpath="{.items[\*]['metadata.name']  
, 'metadata.namespace']}"

#### NEW QUESTION 46

CORRECT TEXT

Create a pod as follows:

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

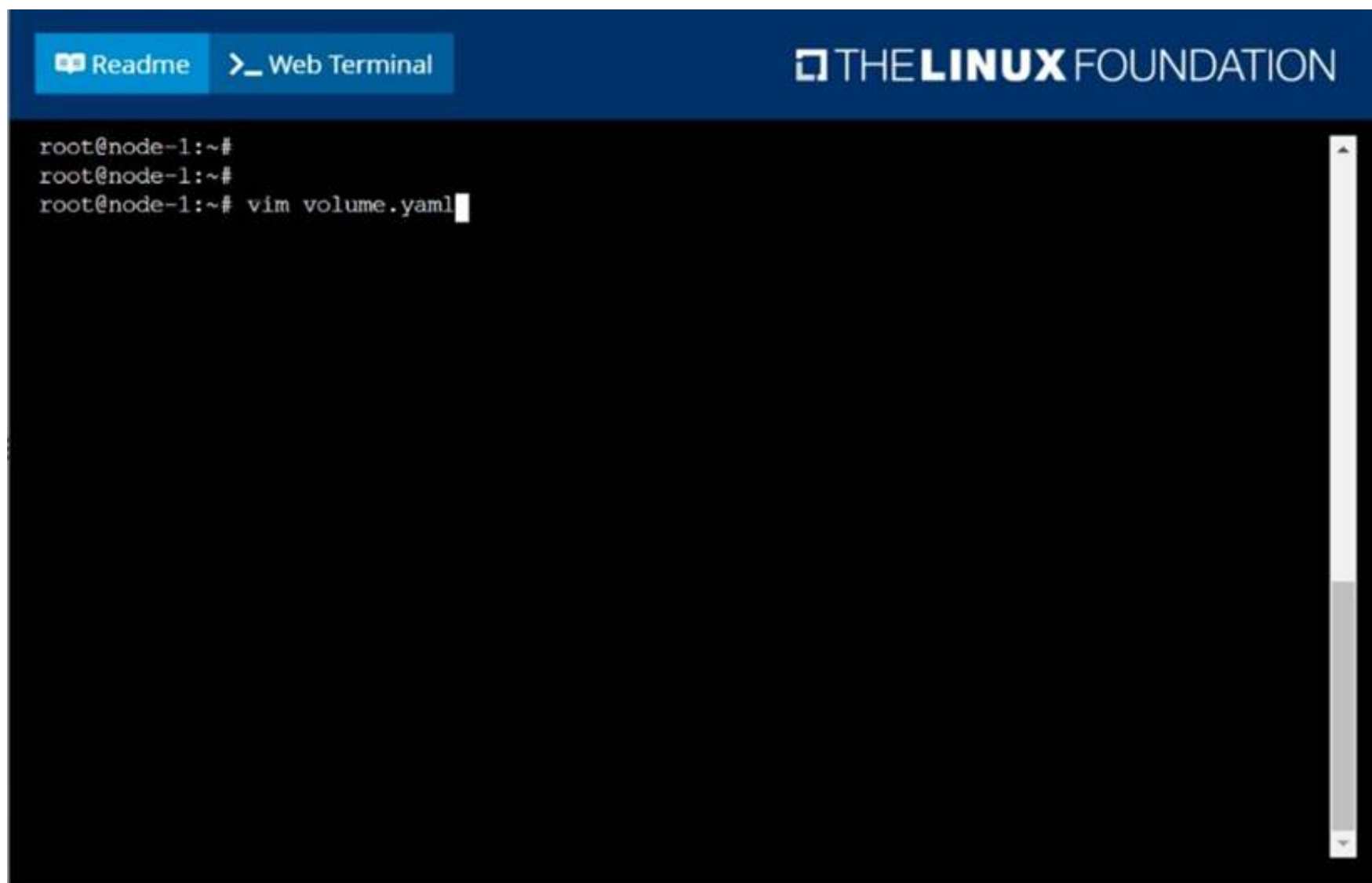
The pod should launch in the staging namespace and the volume must not be persistent.

- A. Mastered
- B. Not Mastered

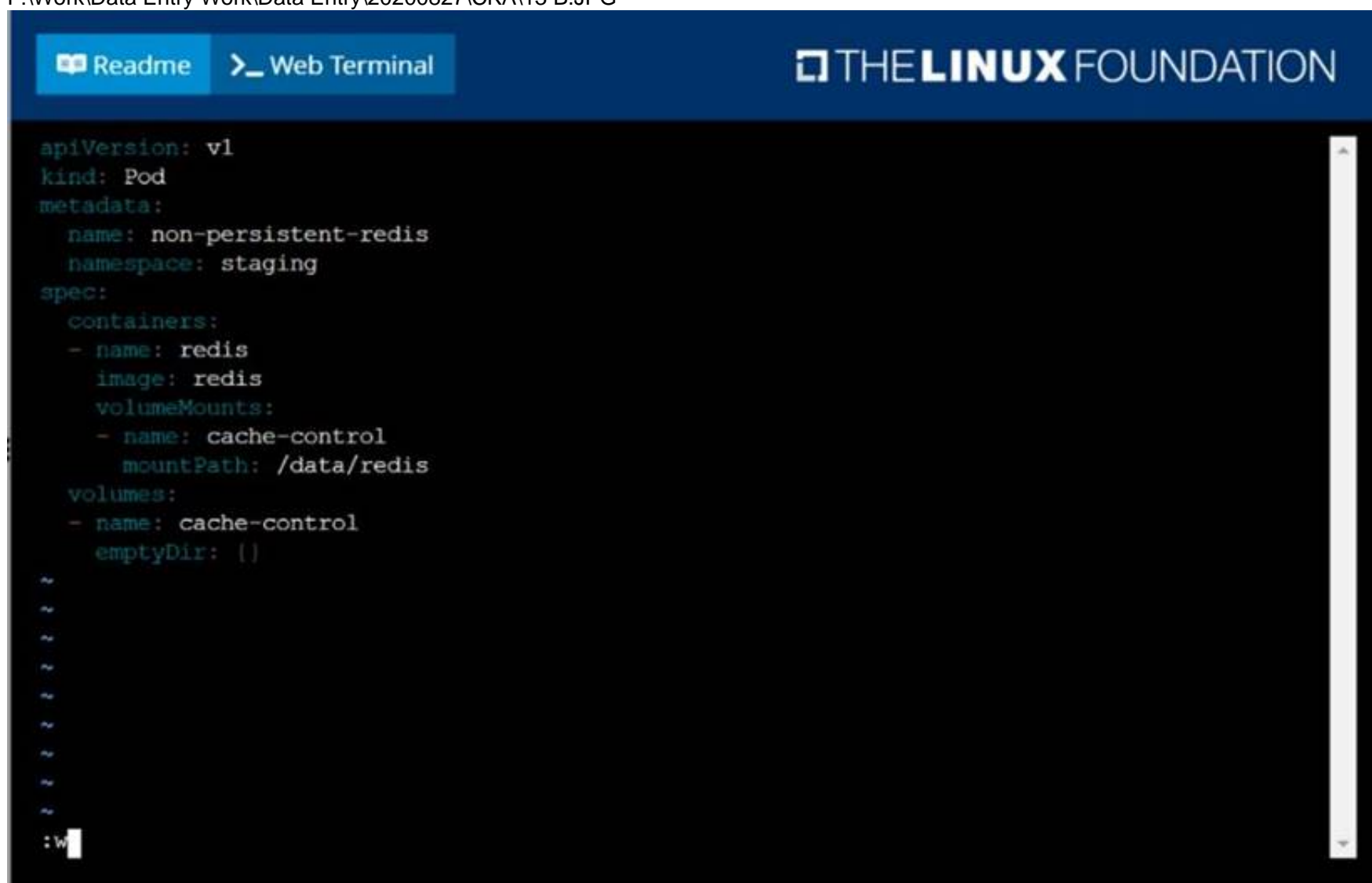
**Answer:** A

#### Explanation:

solution



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Readme
Web Terminal

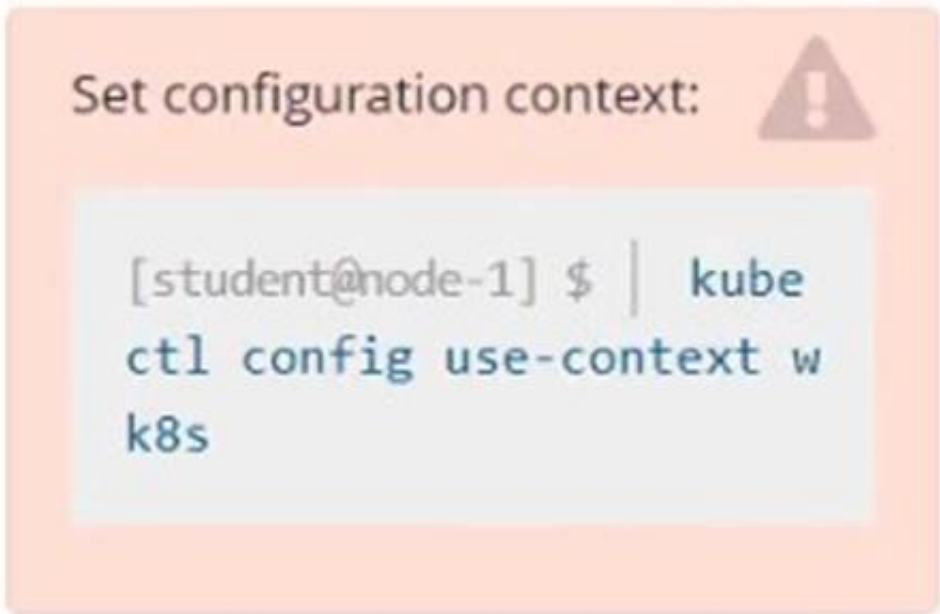
```

root@node-1:~#
root@node-1:~#
root@node-1:~# vim volume.yaml
root@node-1:~# k create -f volume.yaml
pod/non-persistent-redis created
root@node-1:~# k get po -n staging
NAME                READY   STATUS    RESTARTS   AGE
non-persistent-redis 1/1     Running   0           6s
root@node-1:~#

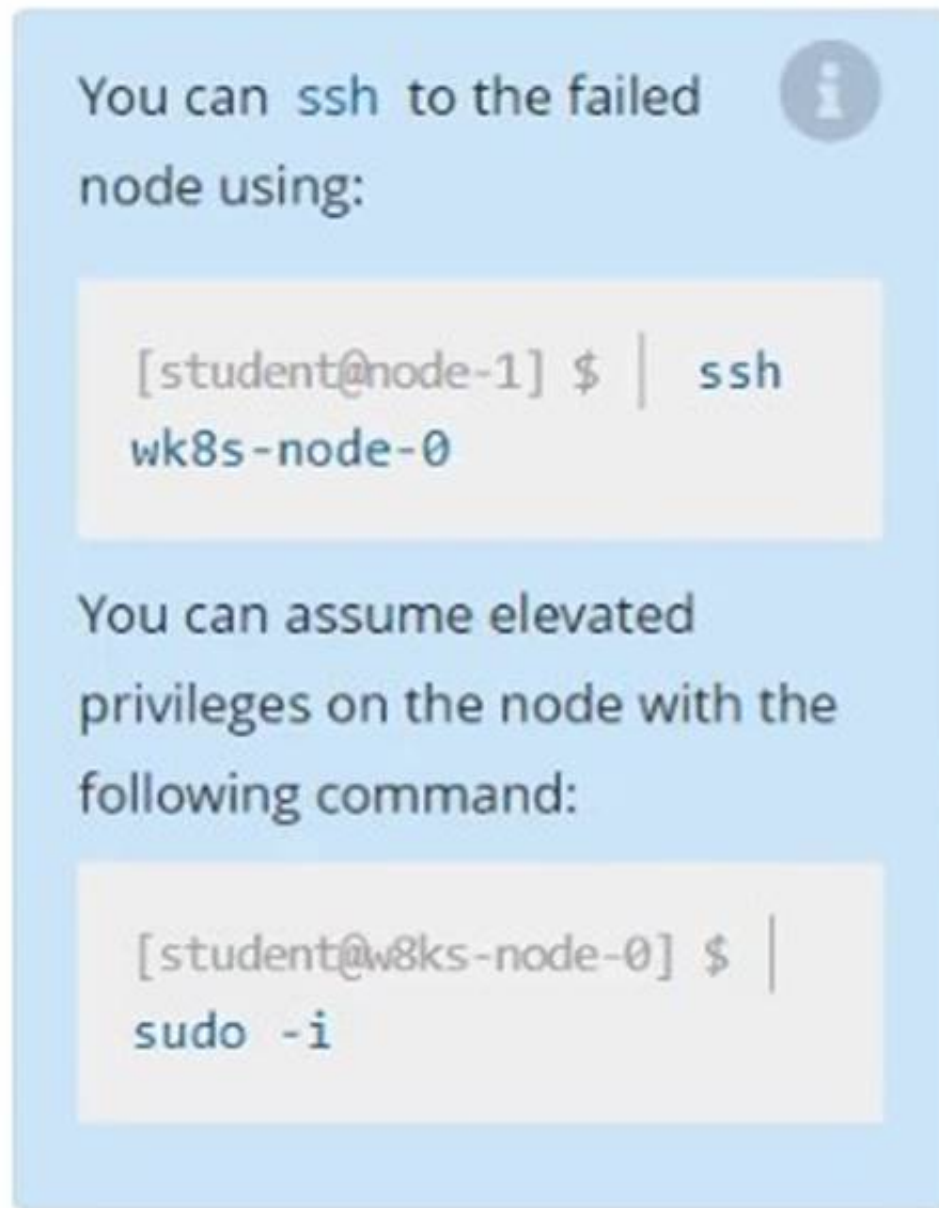
```

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NEW QUESTION 48  
CORRECT TEXT  
Score: 13%



Task  
A Kubernetes worker node, named wk8s-node-0 is in state NotReady. Investigate why this is the case, and perform any appropriate steps to bring the node to a Ready state, ensuring that any changes are made permanent.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:

```
sudo -i
systemctl status kubelet
systemctl start kubelet
systemctl enable kubelet
```

#### NEW QUESTION 53

CORRECT TEXT

Get list of all pods in all namespaces and write it to file "/opt/pods-list.yaml"

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
kubect! get po -all-namespaces > /opt/pods-list.yaml
```

#### NEW QUESTION 55

CORRECT TEXT

Configure the kubelet systemd- managed service, on the node labelled with name=wk8s- node-1, to launch a pod containing a single container of Image httpd named webtool automatically. Any spec files required should be placed in the /etc/kubernetes/manifests directory on the node.

You can ssh to the appropriate node using:

```
[student@node-1] $ ssh wk8s-node-1
```

You can assume elevated privileges on the node with the following command:

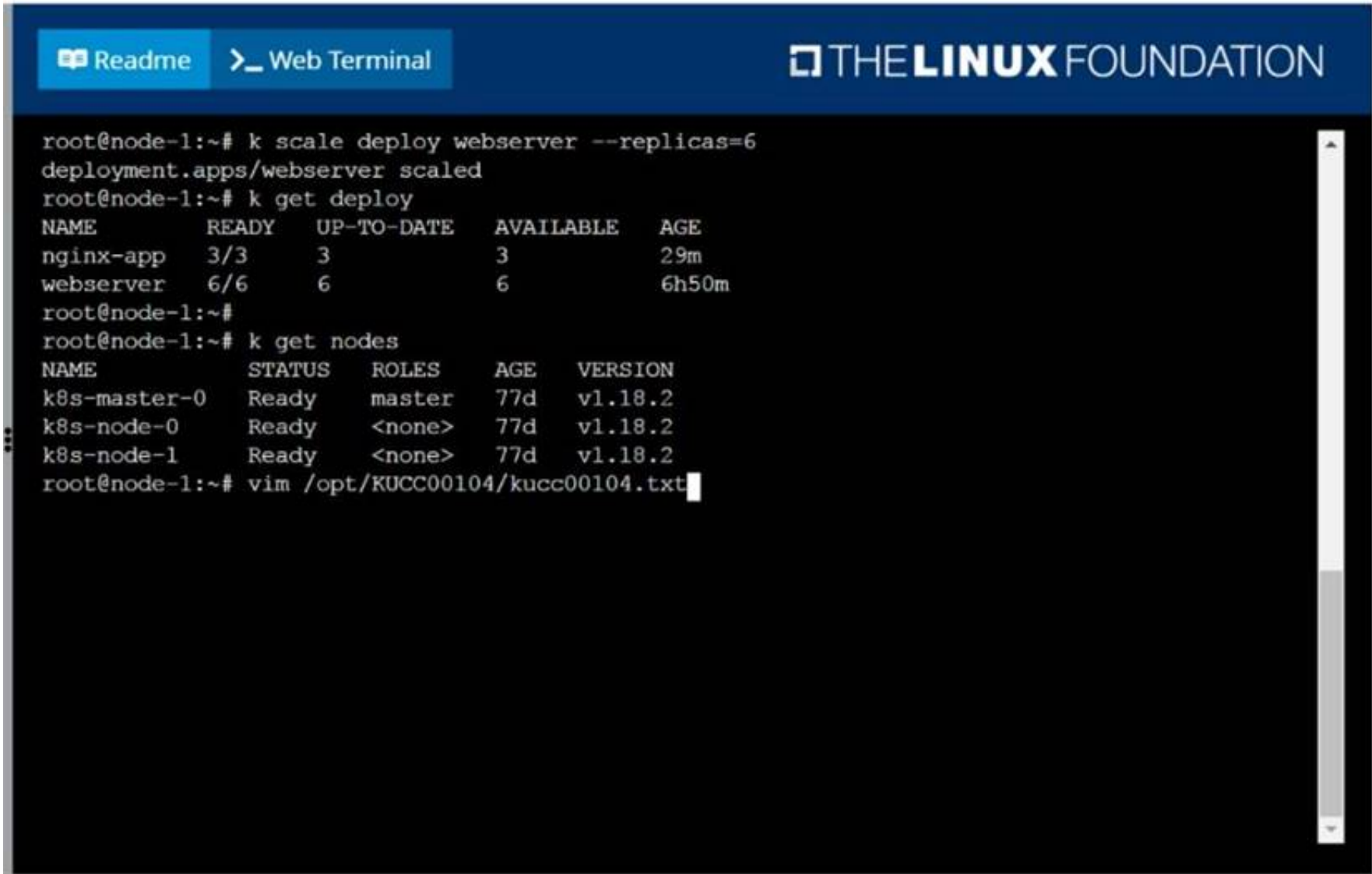
```
[student@wk8s-node-1] $ | sudo -i
```

- A. Mastered
- B. Not Mastered

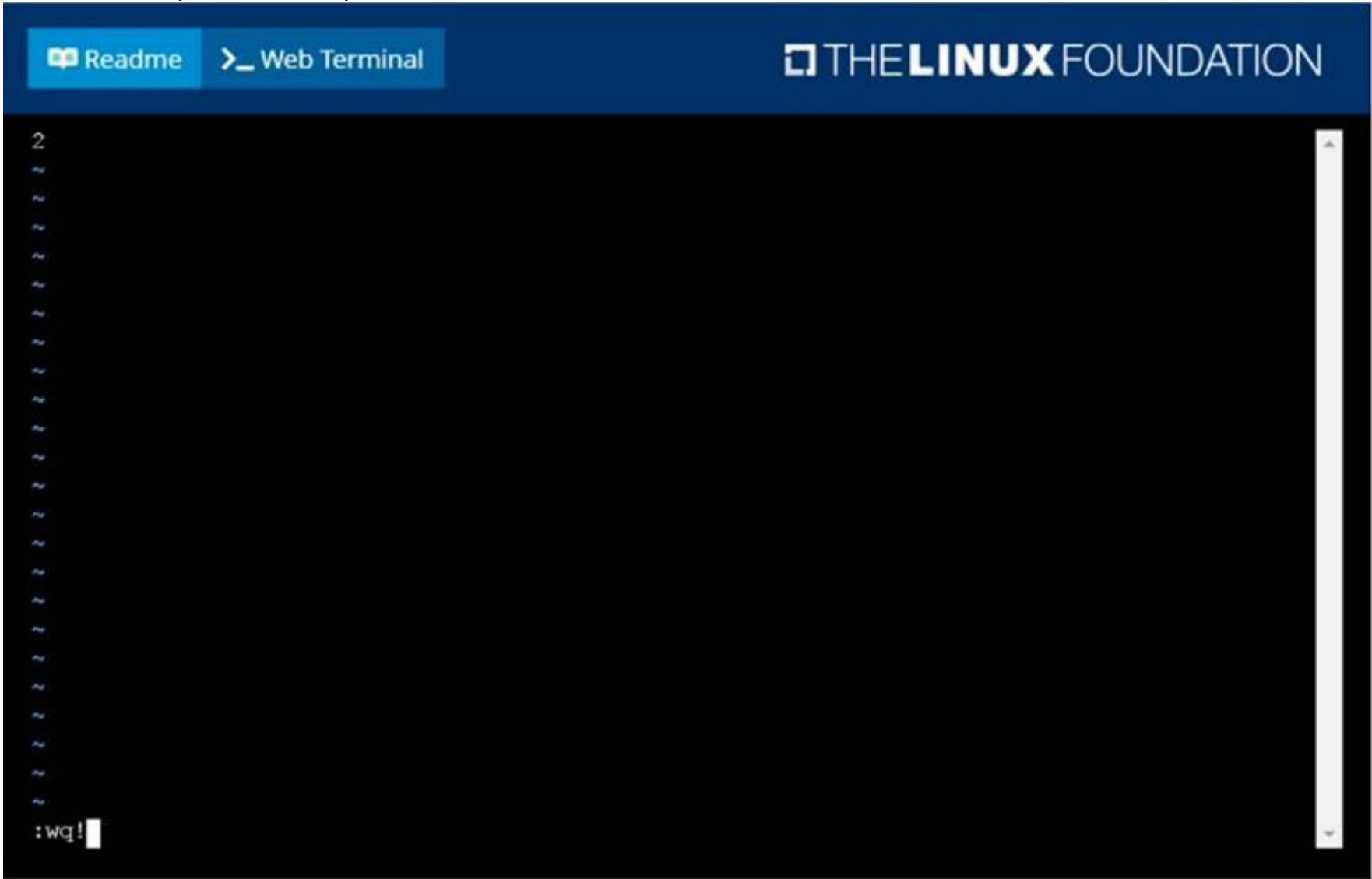
**Answer:** A

**Explanation:**

solution



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NEW QUESTION 57

CORRECT TEXT

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.

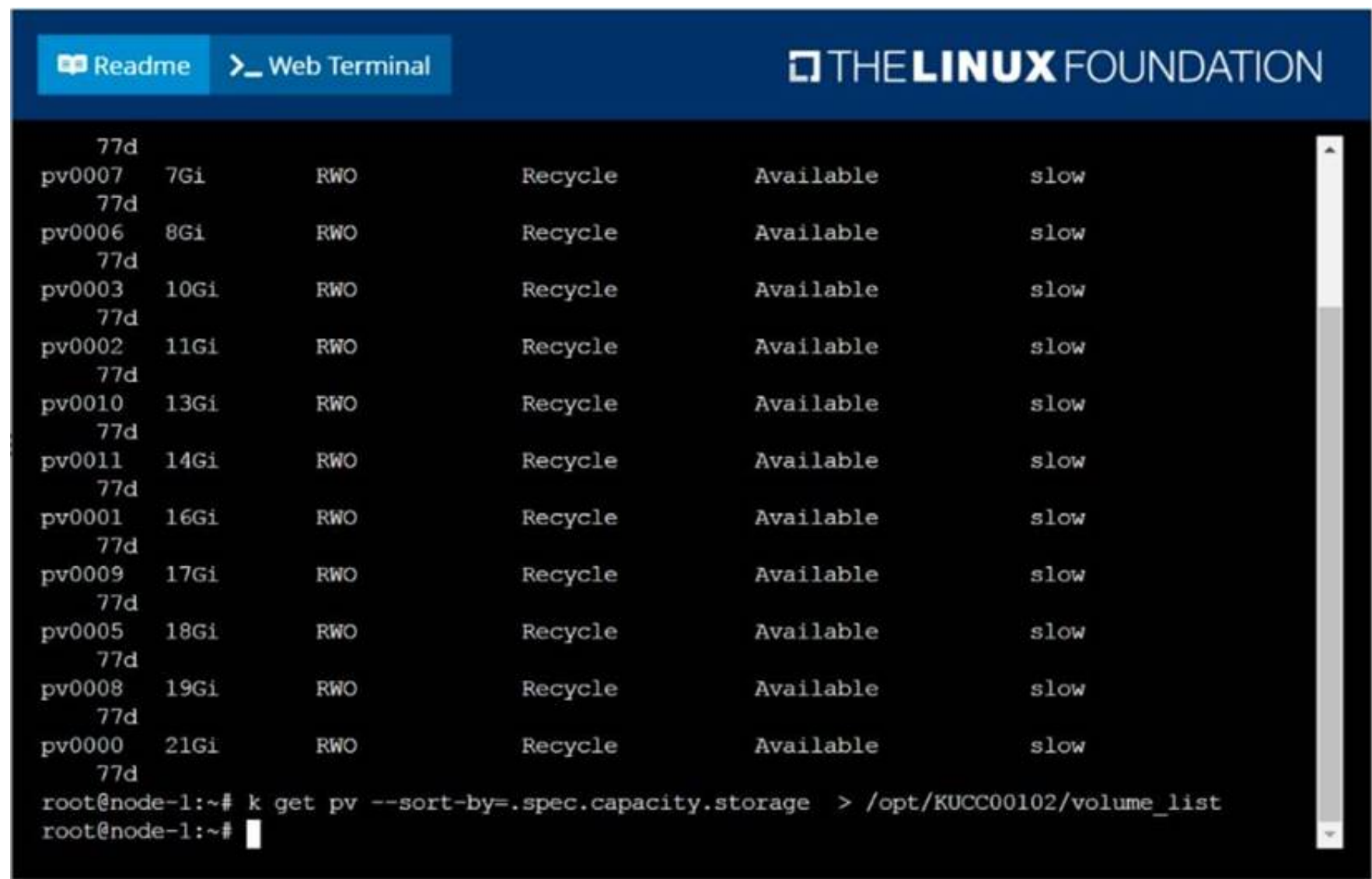
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution





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#### NEW QUESTION 62

CORRECT TEXT

Create a busybox pod and add “sleep 3600” command

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

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

#### NEW QUESTION 66

CORRECT TEXT

Schedule a pod as follows:

? Name: nginx-kusc00101

? Image: nginx

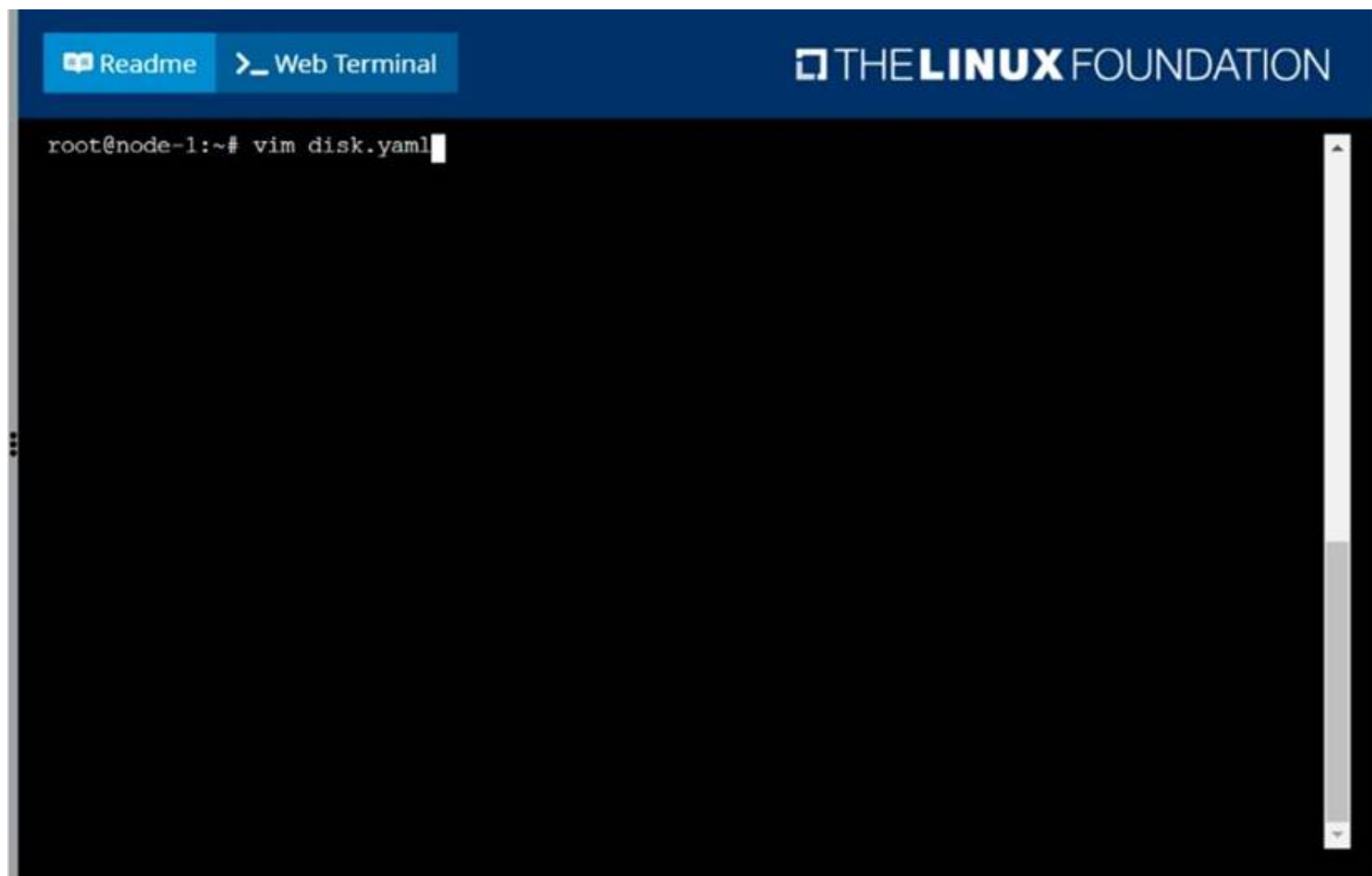
? Node selector: disk=ssd

- A. Mastered
- B. Not Mastered

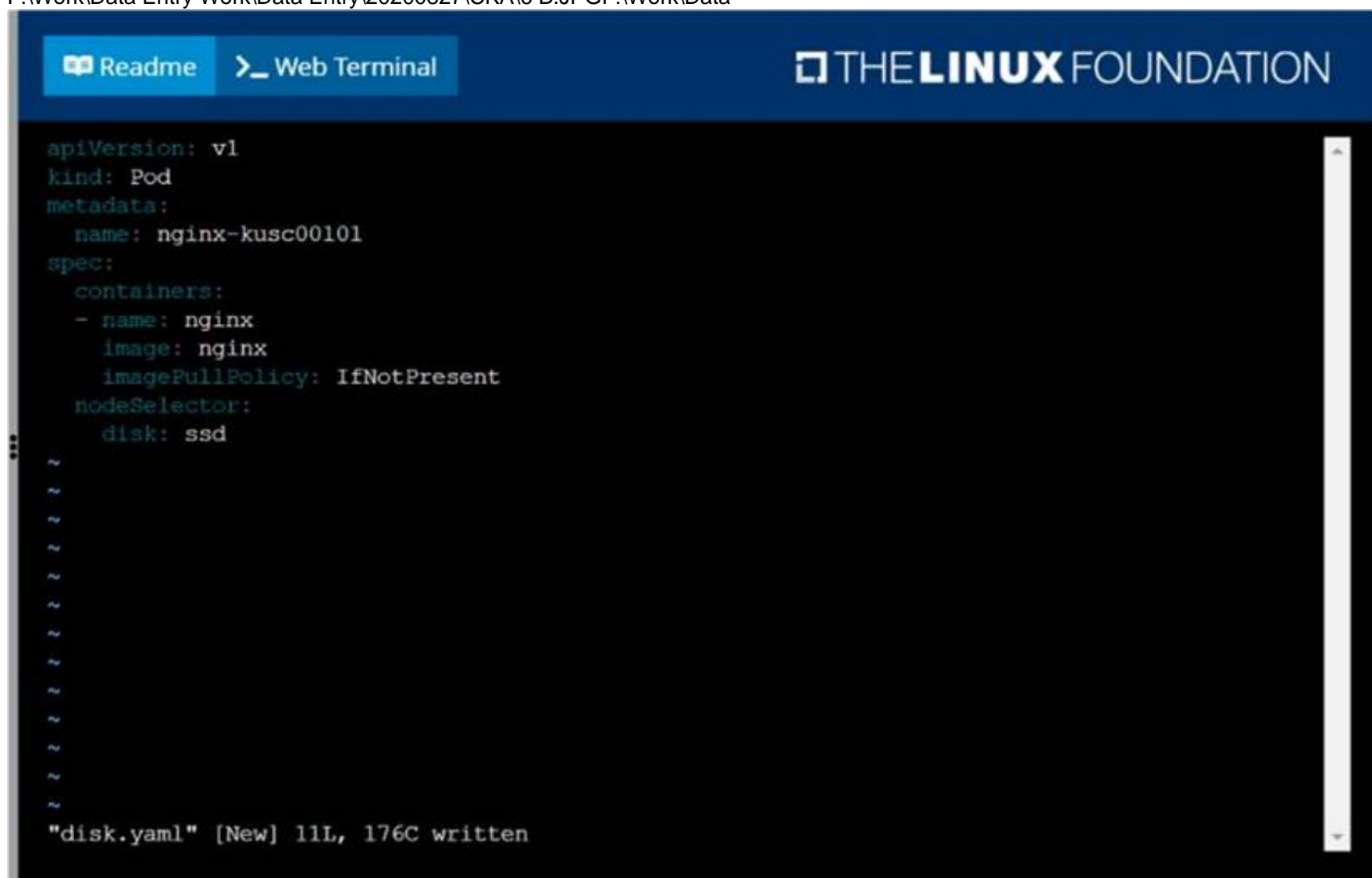
Answer: A

#### Explanation:

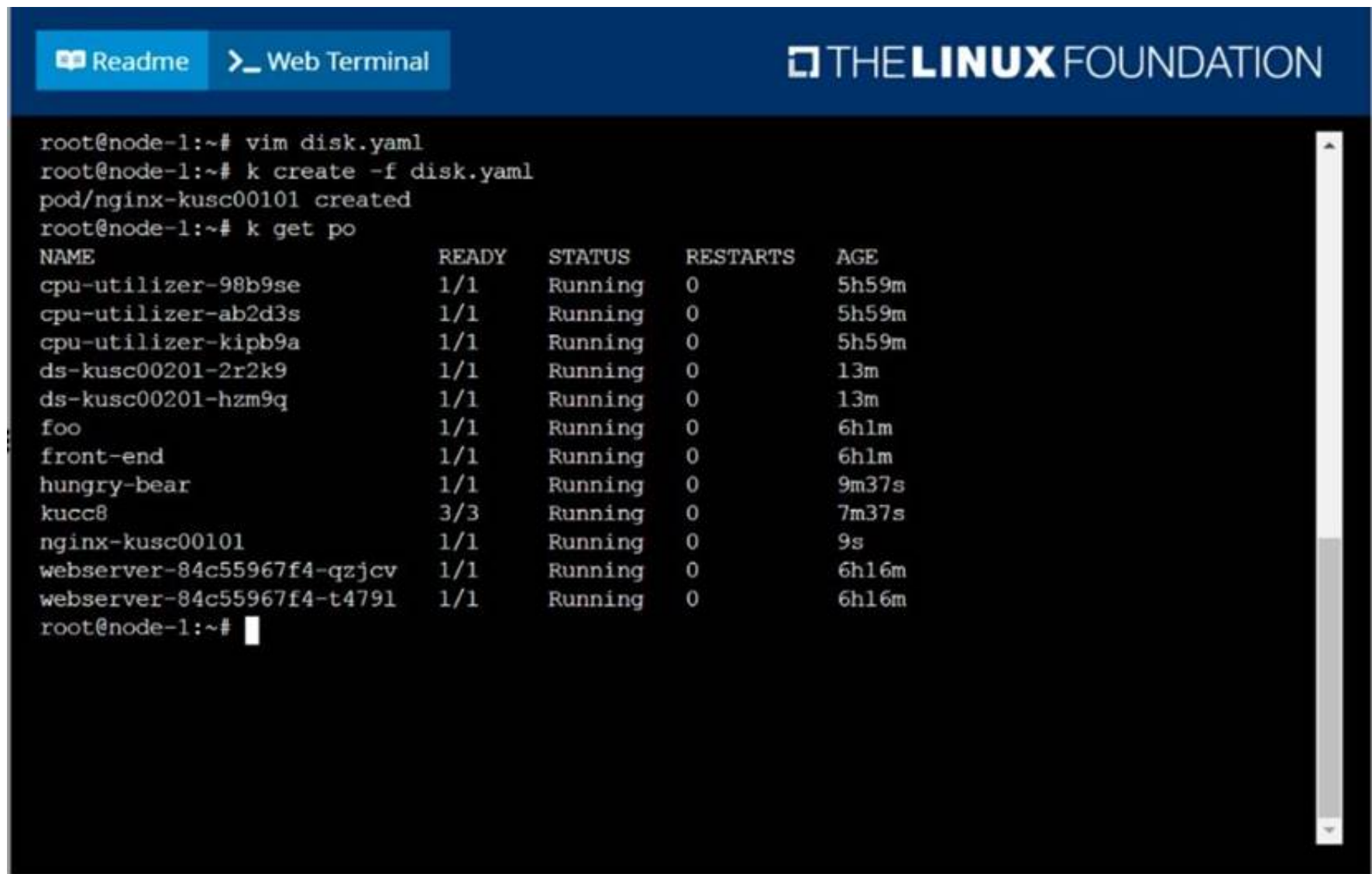
solution



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F:\Work\Data Entry Work\Data Entry\20200827\CKA\6 D.JPG

NEW QUESTION 67

CORRECT TEXT

Create a pod that having 3 containers in it? (Multi-Container)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

image=nginx, image=redis, image=consul  
 Name nginx container as "nginx-container"  
 Name redis container as "redis-container"  
 Name consul container as "consul-container"  
 Create a pod manifest file for a container and append container section for rest of the images  
 kubectl run multi-container --generator=run-pod/v1 --image=nginx --dry-run -o yaml > multi-container.yaml  
 # then  
 vim multi-container.yaml  
 apiVersion: v1  
 kind: Pod  
 metadata:  
 labels:  
 run: multi-container  
 name: multi-container  
 spec:  
 containers:  
 - image: nginx  
 name: nginx-container  
 - image: redis  
 name: redis-container  
 - image: consul  
 name: consul-container  
 restartPolicy: Always

NEW QUESTION 69

CORRECT TEXT

Score: 4%



Task

Create a persistent volume with name app-data , of capacity 1Gi and access mode ReadOnlyMany. The type of volume is hostPath and its location is /srv/app-data .

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:

```
#vi pv.yaml
apiVersion: v1
kind: PersistentVolume
metadata:
  name: app-config
spec:
  capacity:
    storage: 1Gi
  accessModes:
    - ReadOnlyMany
  hostPath:
    path: /srv/app-config
  #
kubectl create -f pv.yaml
```

#### NEW QUESTION 74

CORRECT TEXT

Create a pod with environment variables as var1=value1.Check the environment variable in pod

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
kubectl run nginx --image=nginx --restart=Never --env=var1=value1
# then
kubectl exec -it nginx -- env
# or
kubectl exec -it nginx -- sh -c 'echo $var1'
# or
kubectl describe po nginx | grep value1
```

#### NEW QUESTION 77

CORRECT TEXT

List “nginx-dev” and “nginx-prod” pod and delete those pods

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
kubect1 get pods -o wide
kubectl delete po “nginx-dev”kubectl delete po “nginx-prod”
```

#### NEW QUESTION 81

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