Linux-Foundation

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

NEW QUESTION 1
CORRECT TEXT
Create a pod with image nginx called nginx and allow traffic on port 80

A. Mastered
B. Not Mastered

Answer: A

Explanation:
kubectl run nginx --image=nginx --restart=Never --port=80

NEW QUESTION 2
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

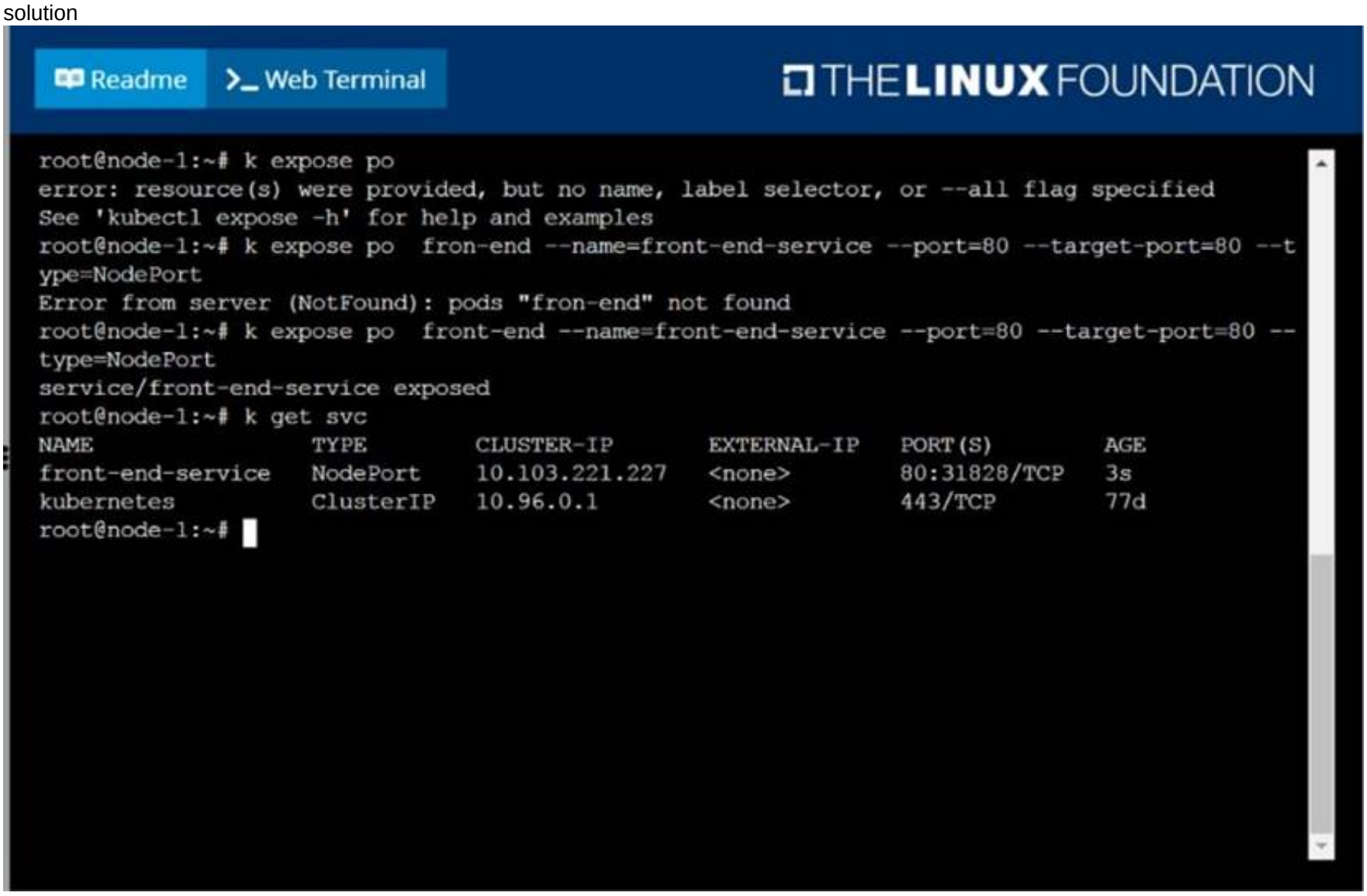
Explanation:
kubectl create namespace development
kubectl run nginx --image=nginx --restart=Never -n development

NEW QUESTION 3
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 4
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 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:

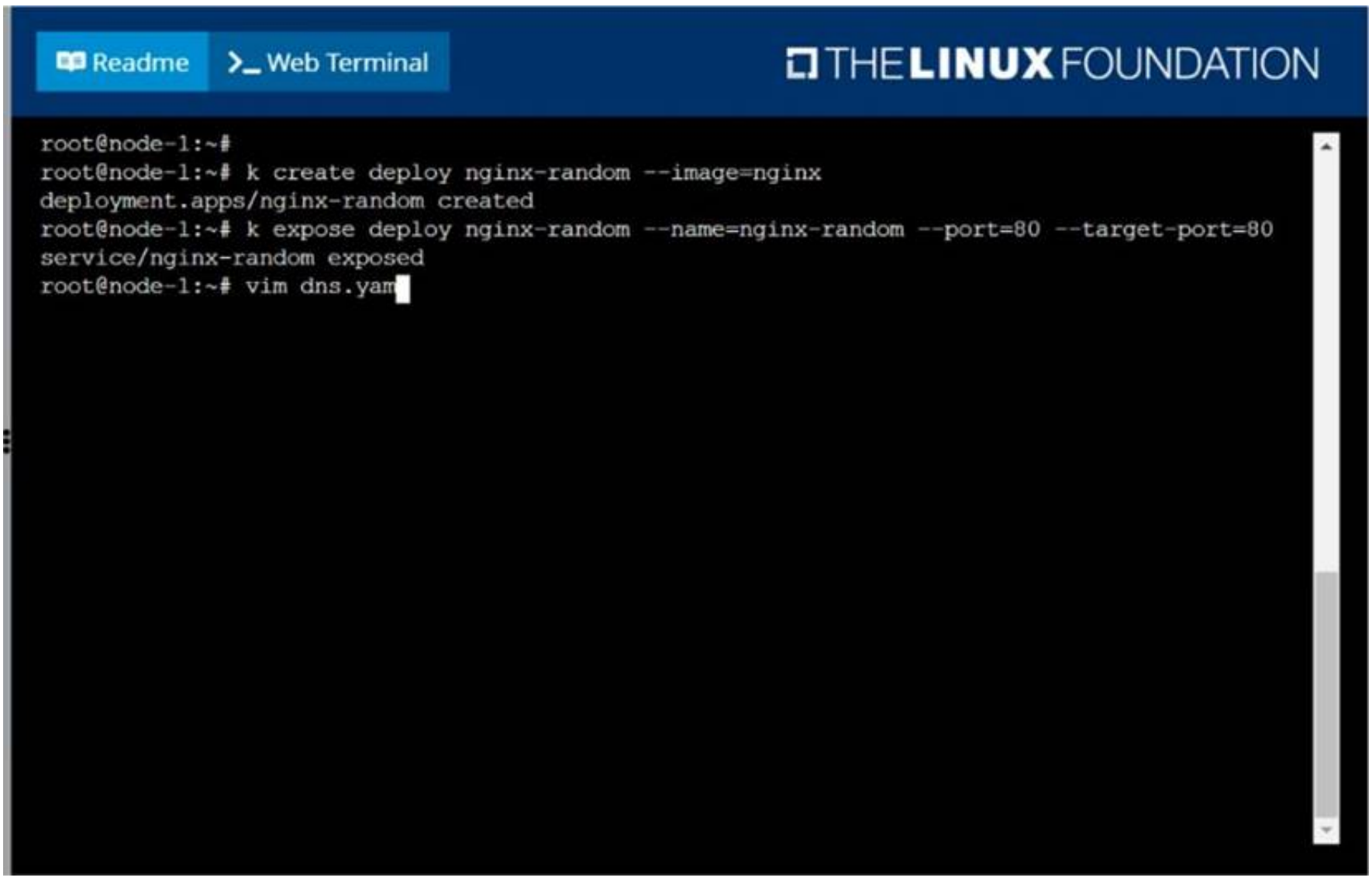
Solution:
#yaml
apiVersion: v1
kind: Pod
metadata:
name: nginx-kusc00401
spec:
containers:
- name: nginx
image: nginx
imagePullPolicy: IfNotPresent
nodeSelector:
disk: spinning
#
kubectl create -f node-select.yaml

NEW QUESTION 6
CORRECT TEXT
Create a deployment 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:



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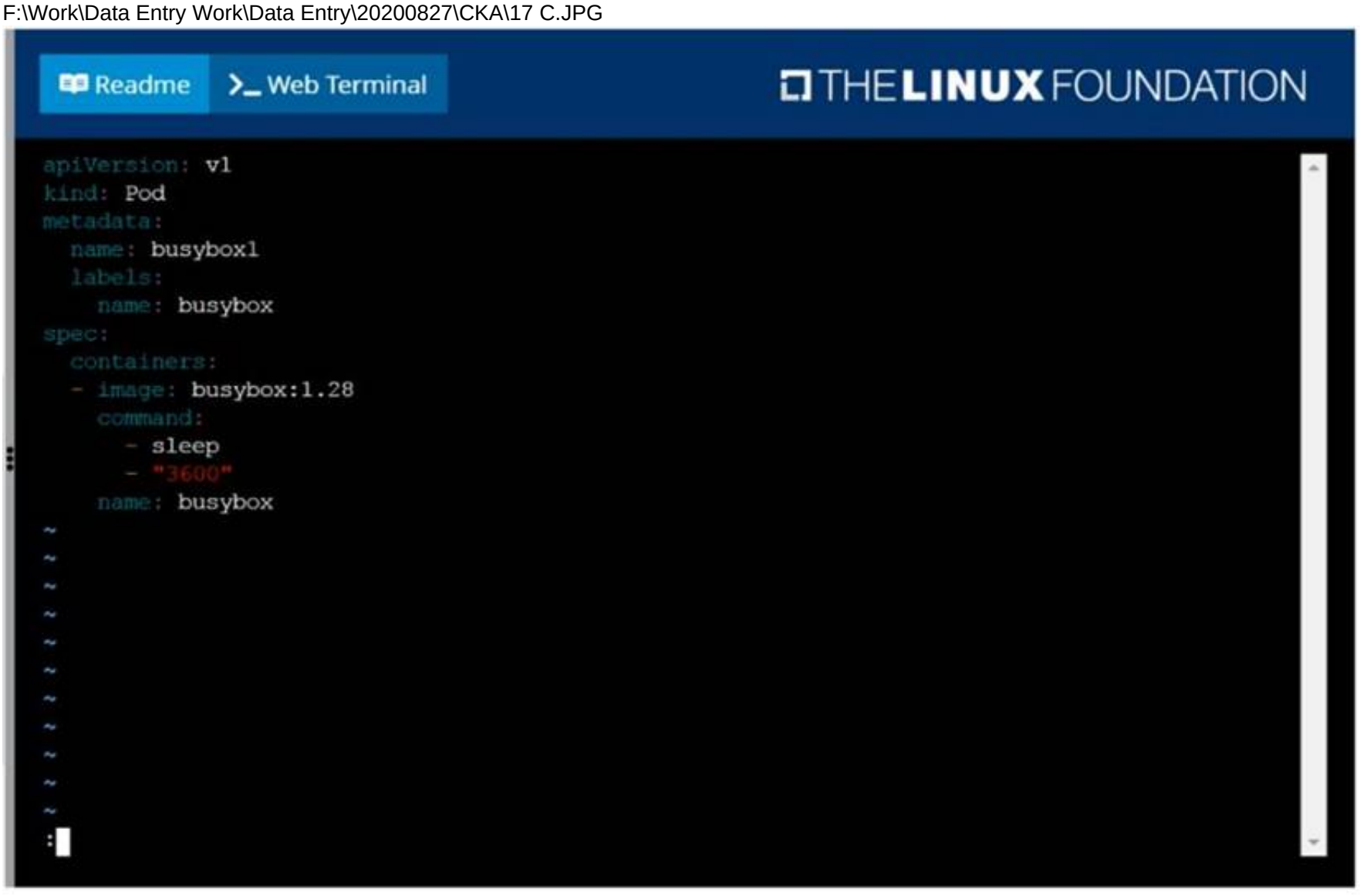

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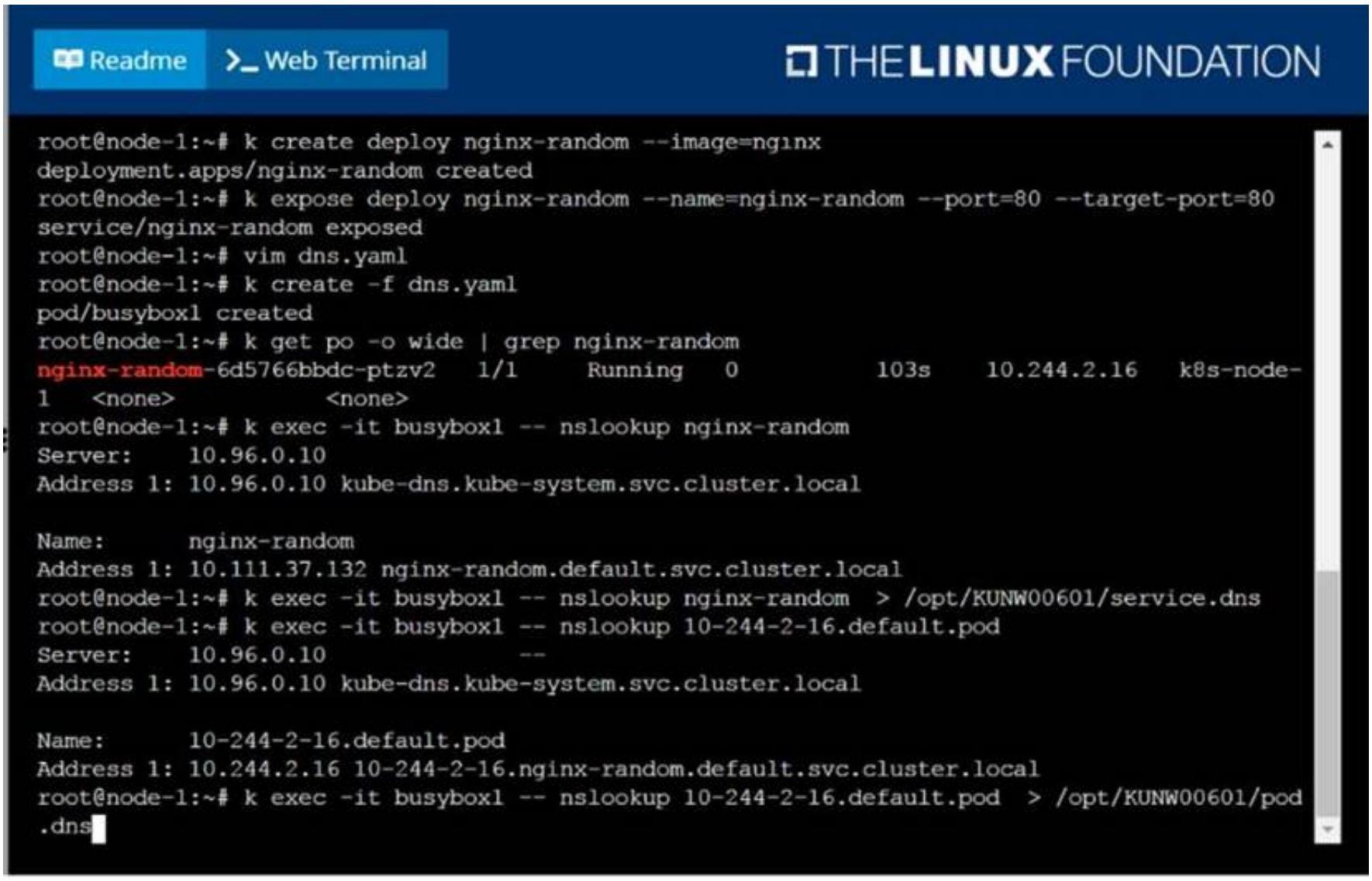

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NEW QUESTION 7
CORRECT TEXT
For this item, you will have to ssh to the nodes ik8s-master-0 and ik8s-node-0 and complete all tasks on these nodes. Ensure that you return to the base node (hostname: node-1) when you have completed this item.
Context
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-O as a master node. .
? Join the node ik8s-node-o 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 initializingyour 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 8
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

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
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-t4791    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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```
apiVersion: v1
kind: Pod
metadata:
  name: kucc8
spec:
  containers:
  - image: nginx
    name: nginx
  - image: redis
    name: redis
  - image: memcached
    name: memcached
~
~
~
~
~
~
~
~
:w
```

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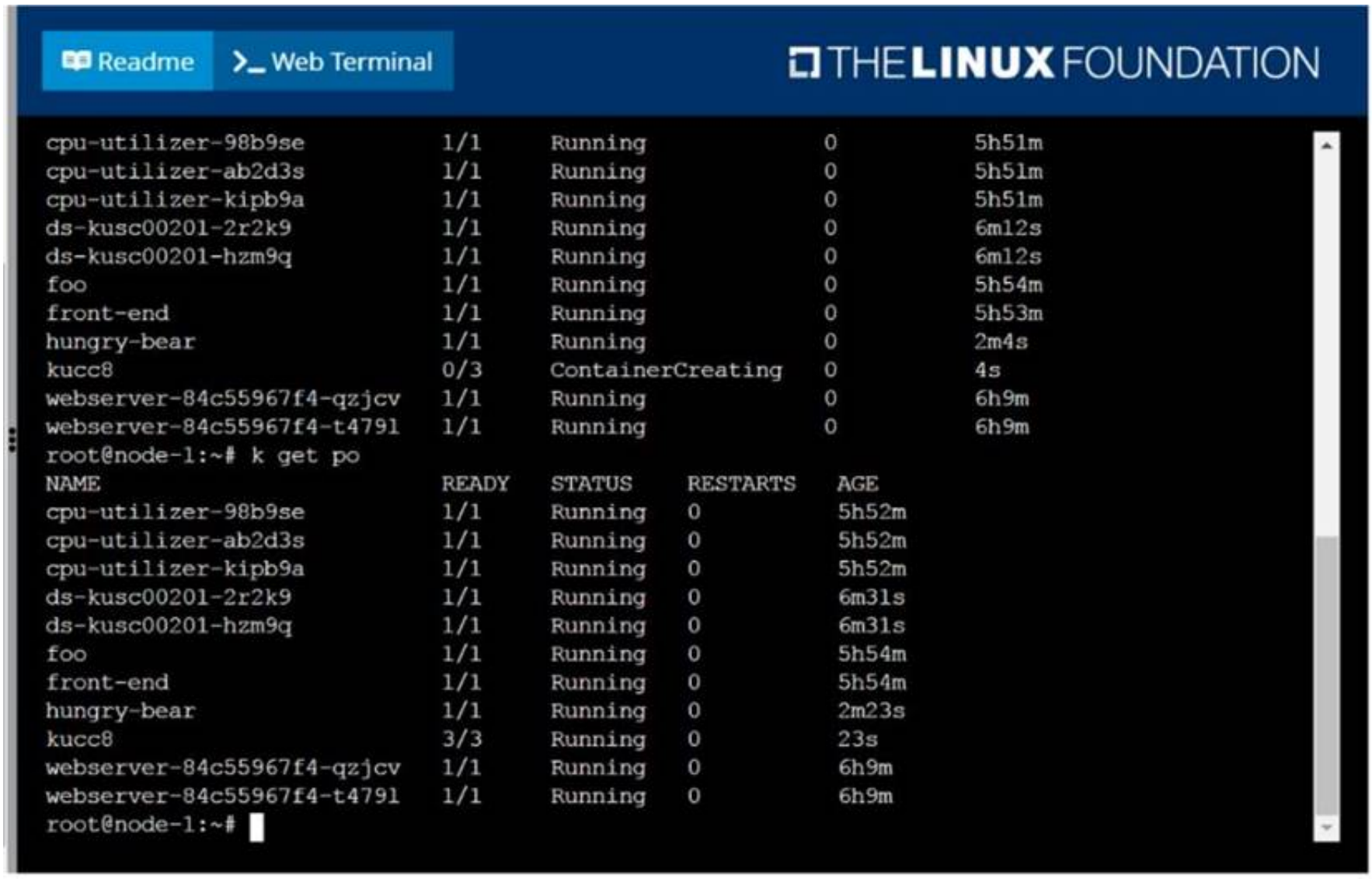

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NEW QUESTION 9
CORRECT TEXT
Create an nginx pod and list the pod with different levels of verbosity

A. Mastered
B. Not Mastered

Answer: A

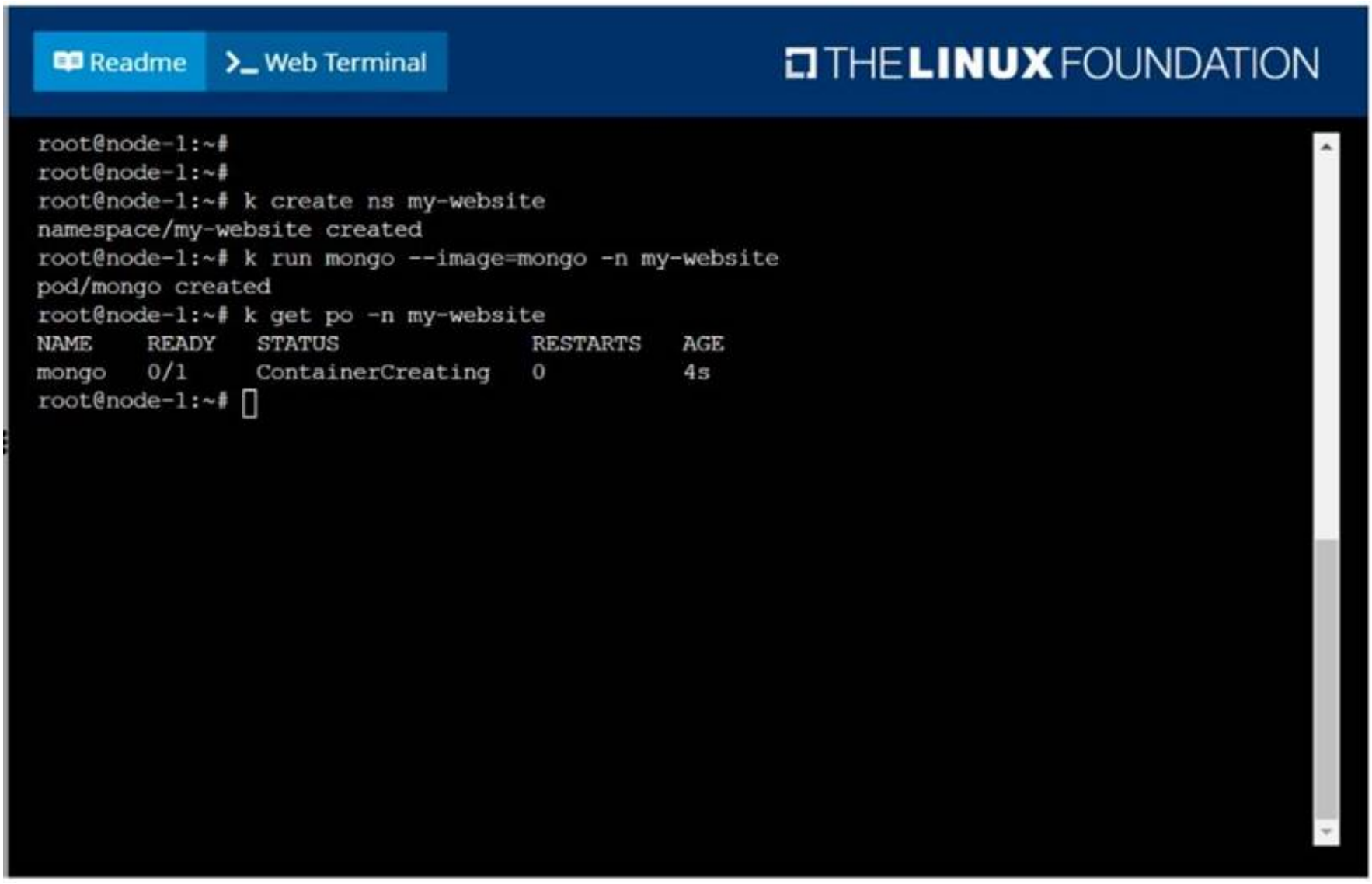
Explanation:
// create a pod
kubectl run nginx --image=nginx --restart=Never --port=80
// List the pod with different verbosity
kubectl get po nginx --v=7
kubectl get po nginx --v=8
kubectl get po nginx --v=9

NEW QUESTION 10
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 10
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 13
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 15
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 .

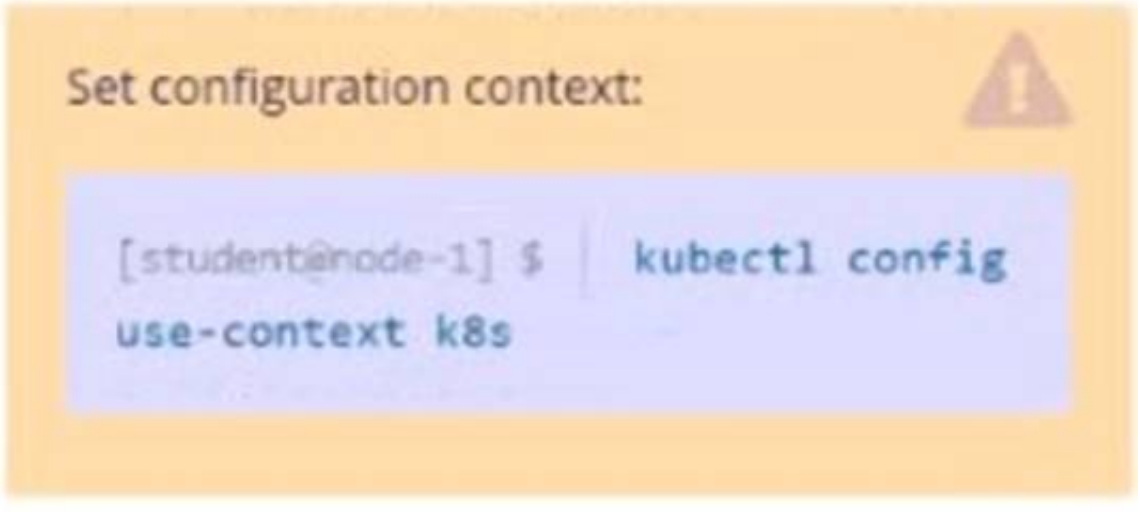
A. Mastered
B. Not Mastered

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 17
CORRECT TEXT
Task Weight: 4%



Task
Scale the deployment webserver to 3 pods.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution:

```
student@node-1:~$ kubectl  scale  deploy webserver  --replicas=3
deployment.apps/webserver scaled
student@node-1:~$ kubectl  scale  deploy webserver  --replicas=3
```

NEW QUESTION 20
CORRECT TEXT
List the nginx pod with custom columns POD_NAME and POD_STATUS

A. Mastered
B. Not Mastered

Answer: A

Explanation:
kubectl get po -o=custom-columns="POD_NAME:.metadata.name, POD_STATUS:.status.containerStatuses[].state"

NEW QUESTION 21
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:
kubectl get po –all-namespaces > /opt/pods-list.yaml

NEW QUESTION 22
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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```
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
```

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```
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
```

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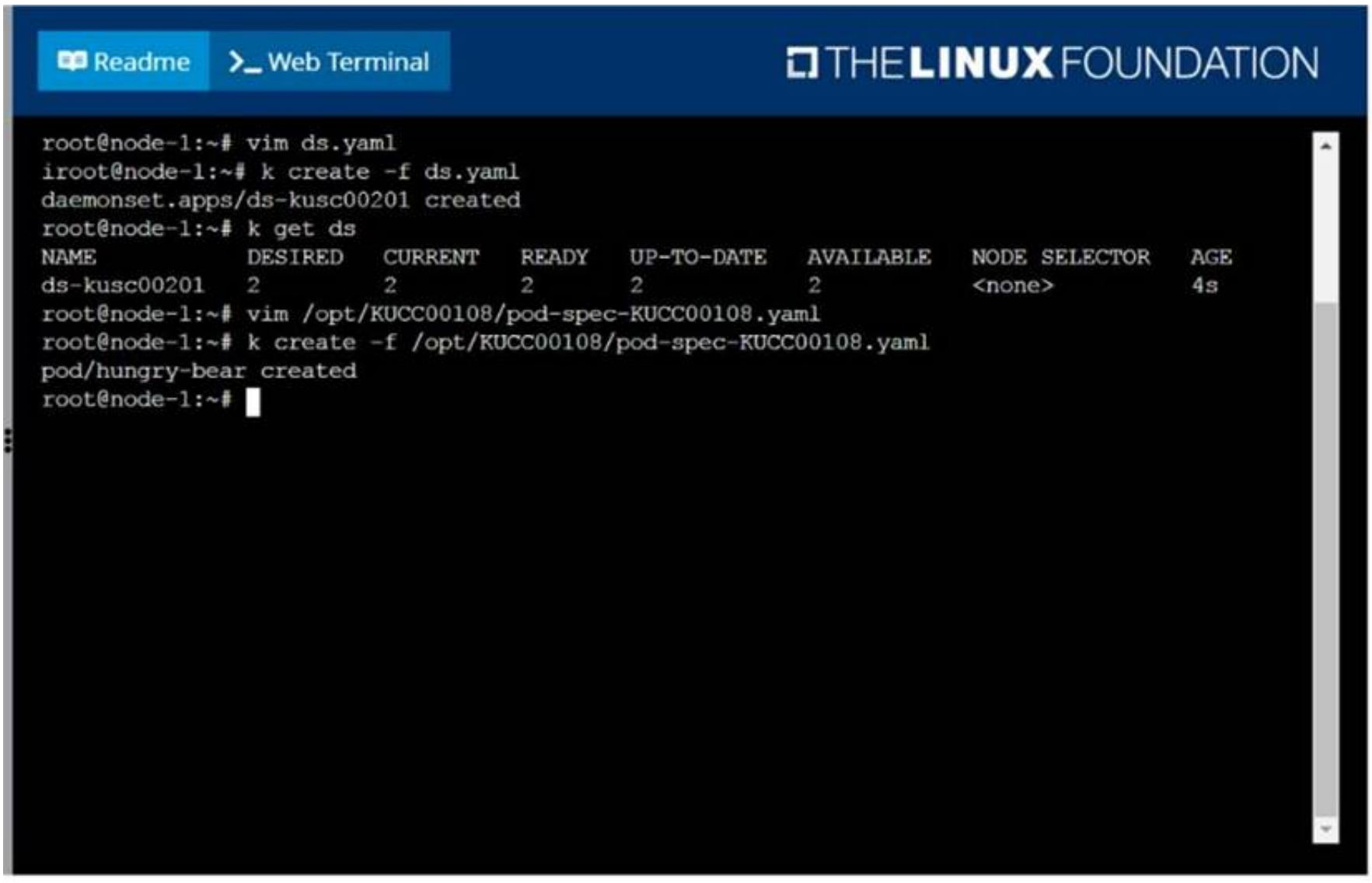

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NEW QUESTION 26
CORRECT TEXT
A Kubernetes worker node, named wk8s-node-0 is in state NotReady. Investigate why this is the case, and perform any appropriate steps to bring the node to a Ready state, ensuring that any changes are made permanent.
You can ssh to the failed node using:
[student@node-1] $ | ssh Wk8s-node-0
You can assume elevated privileges on the node with the following command:
[student@w8ks-node-0] $ | sudo –i

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution

Readme | Web Terminal — THE LINUX FOUNDATION

```
root@node-1:~# kubectl config use-context wk8s
Switched to context "wk8s".
root@node-1:~# k get nodes
NAME           STATUS     ROLES    AGE   VERSION
wk8s-master-0  Ready      master   77d   v1.18.2
wk8s-node-0    NotReady   <none>   77d   v1.18.2
wk8s-node-1    Ready      <none>   77d   v1.18.2
root@node-1:~# ssh wk8s-node-0
```

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```
wk8s-node-0    NotReady   <none>   77d   v1.18.2
wk8s-node-1    Ready      <none>   77d   v1.18.2
root@node-1:~# ssh wk8s-node-0
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-1109-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

 * Are you ready for Kubernetes 1.19? It's nearly here! Try RC3 with
   sudo snap install microk8s --channel=1.19/candidate --classic

   https://microk8s.io/ has docs and details.

4 packages can be updated.
1 update is a security update.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.


student@wk8s-node-0:~$ sudo -i
root@wk8s-node-0:~# systemctl  restart kubelet
root@wk8s-node-0:~# systemctl  enable kubelet
```

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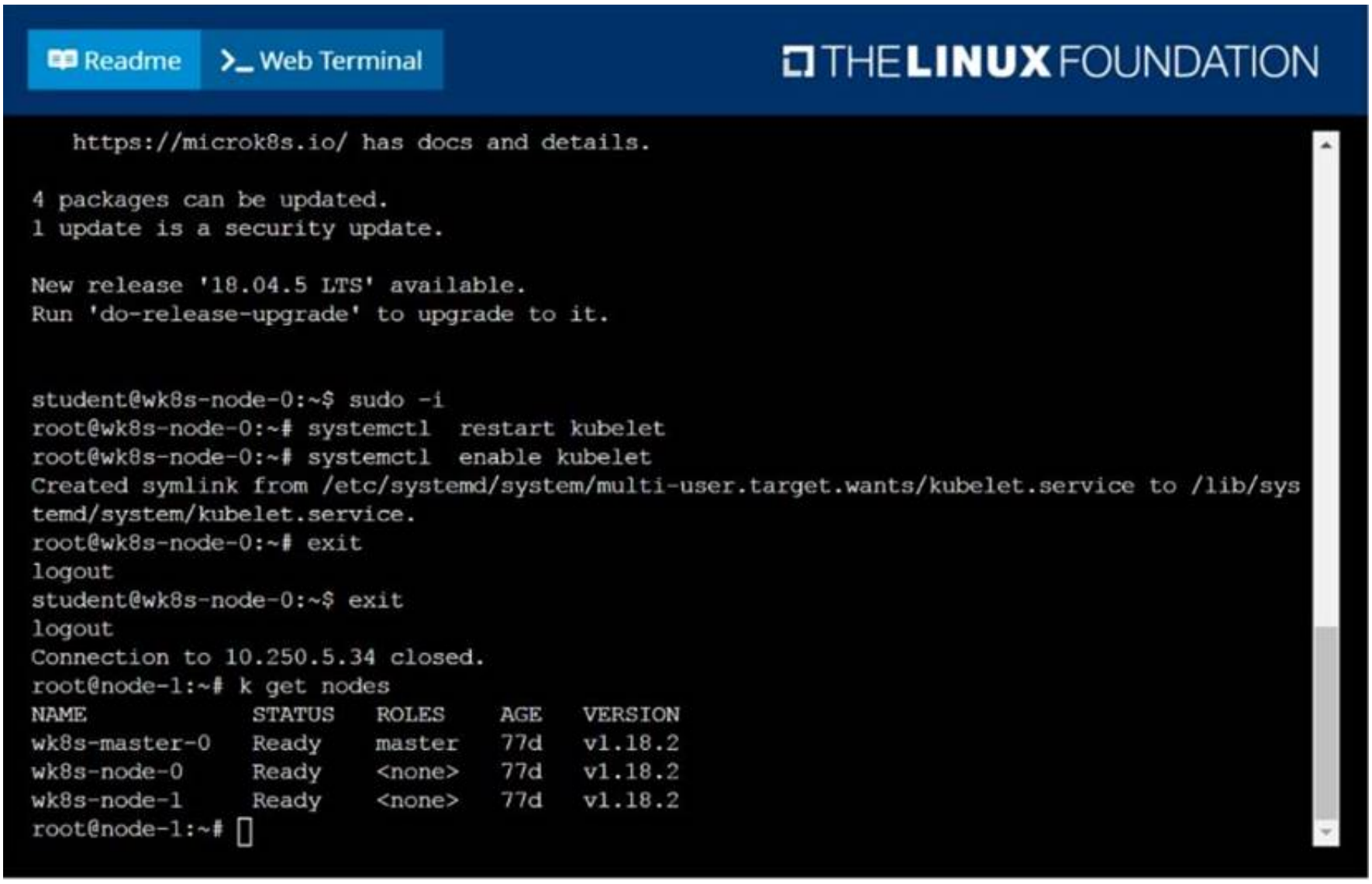

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NEW QUESTION 27
CORRECT TEXT
List all the pods showing name and namespace with a json path expression

A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 28
CORRECT TEXT
List all the pods sorted by name

A. Mastered
B. Not Mastered

Answer: A

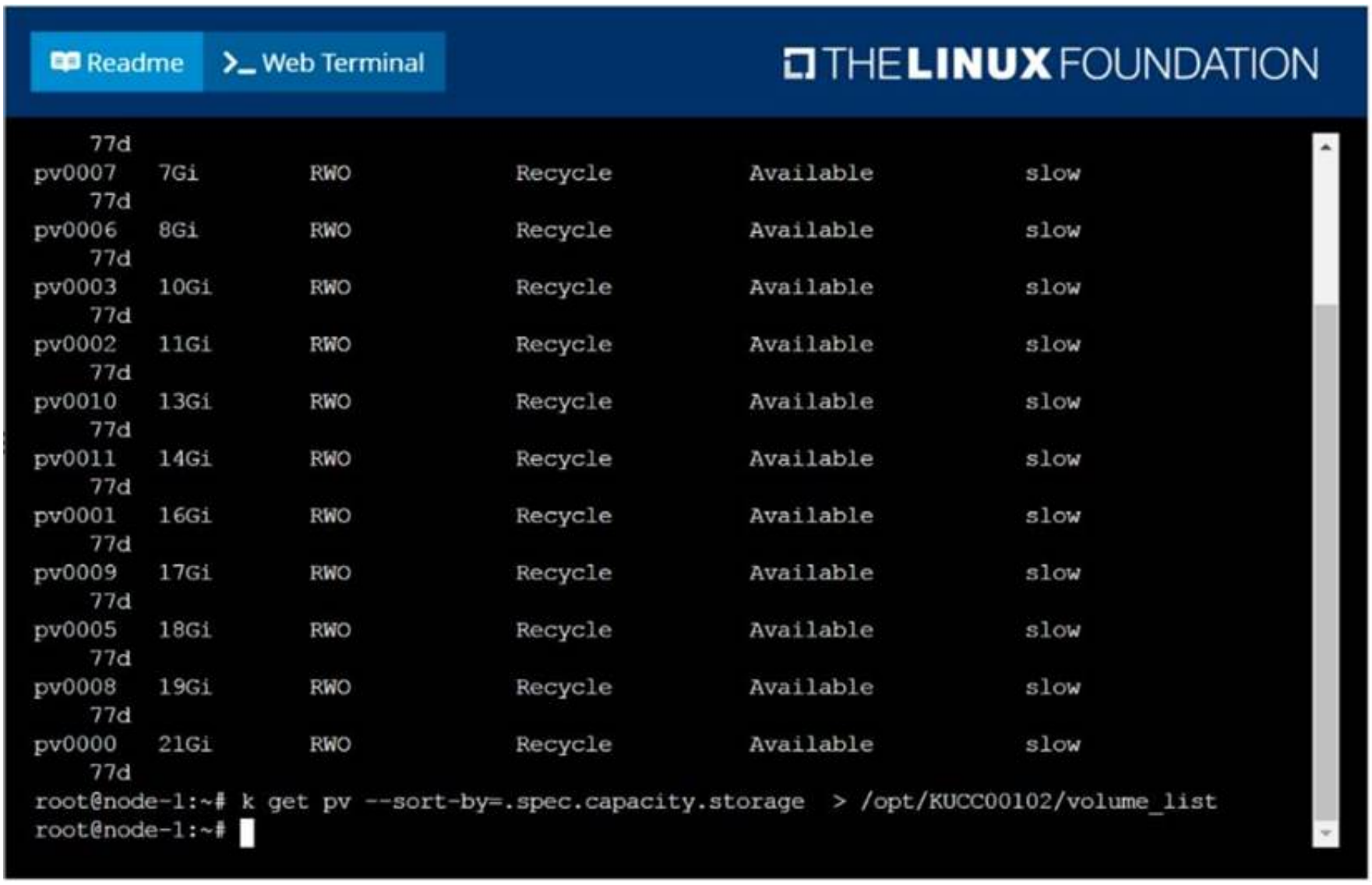
Explanation:
kubectl get pods --sort-by=.metadata.name

NEW QUESTION 31
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 36
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 41
CORRECT TEXT
Score: 5%

Task
Monitor the logs of pod bar and:
• Extract log lines corresponding to error file-not-found
• Write them to /opt/KUTR00101/bar

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Solution:
kubectl logs bar | grep 'unable-to-access-website' > /opt/KUTR00101/bar
cat /opt/KUTR00101/bar

NEW QUESTION 45
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 49
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