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

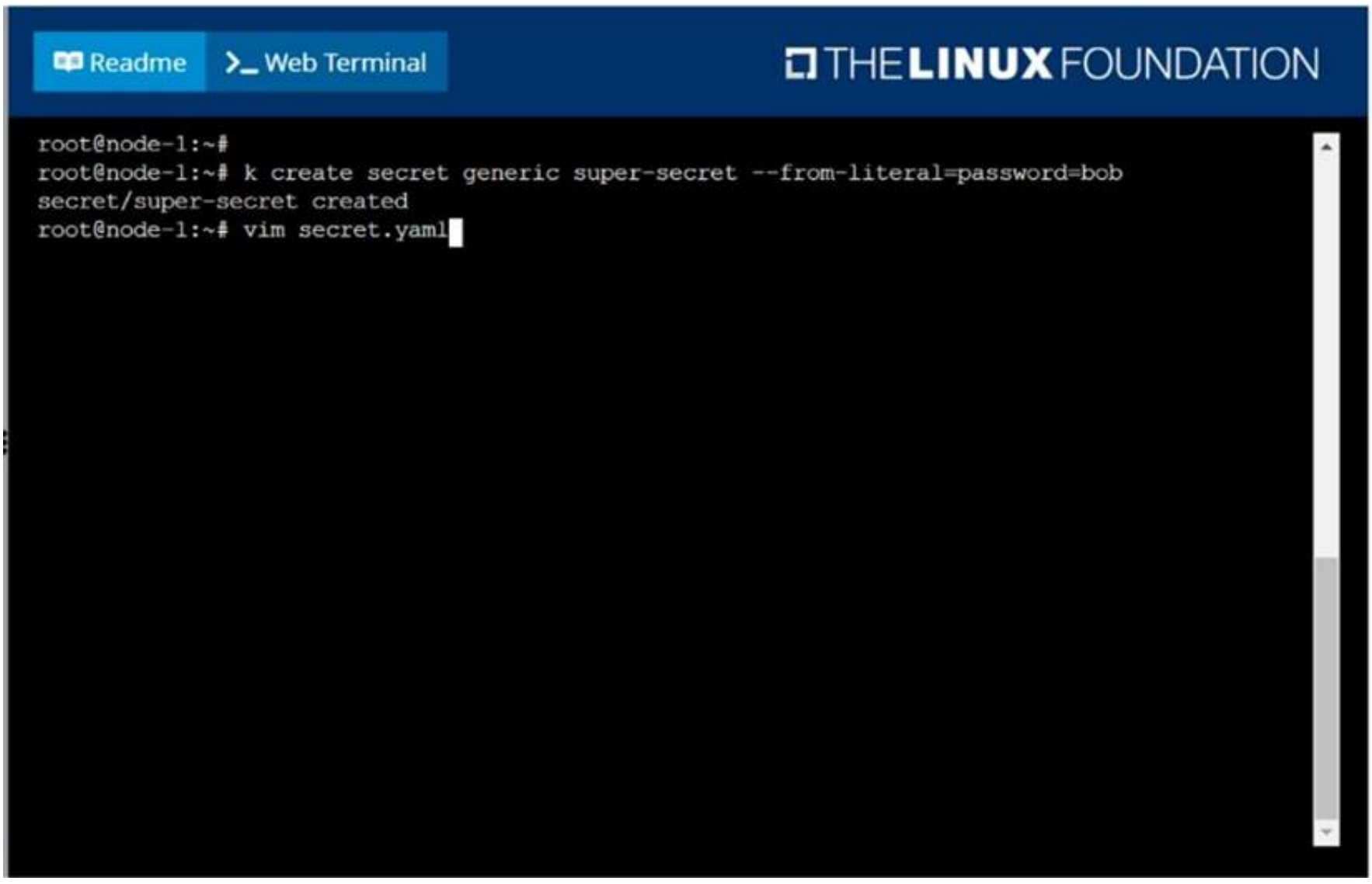
Explanation:
kubectl run nginx --image=nginx --restart=Never --port=80

NEW QUESTION 2
CORRECT TEXT
Create a Kubernetes secret as follows:
? Name: super-secret
? password: bob
Create a pod named pod-secrets-via-file, using the redis Image, which mounts a secret named super-secret at /secrets.
Create a second pod named pod-secrets-via-env, using the redis Image, which exports
password as CONFIDENTIAL

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution



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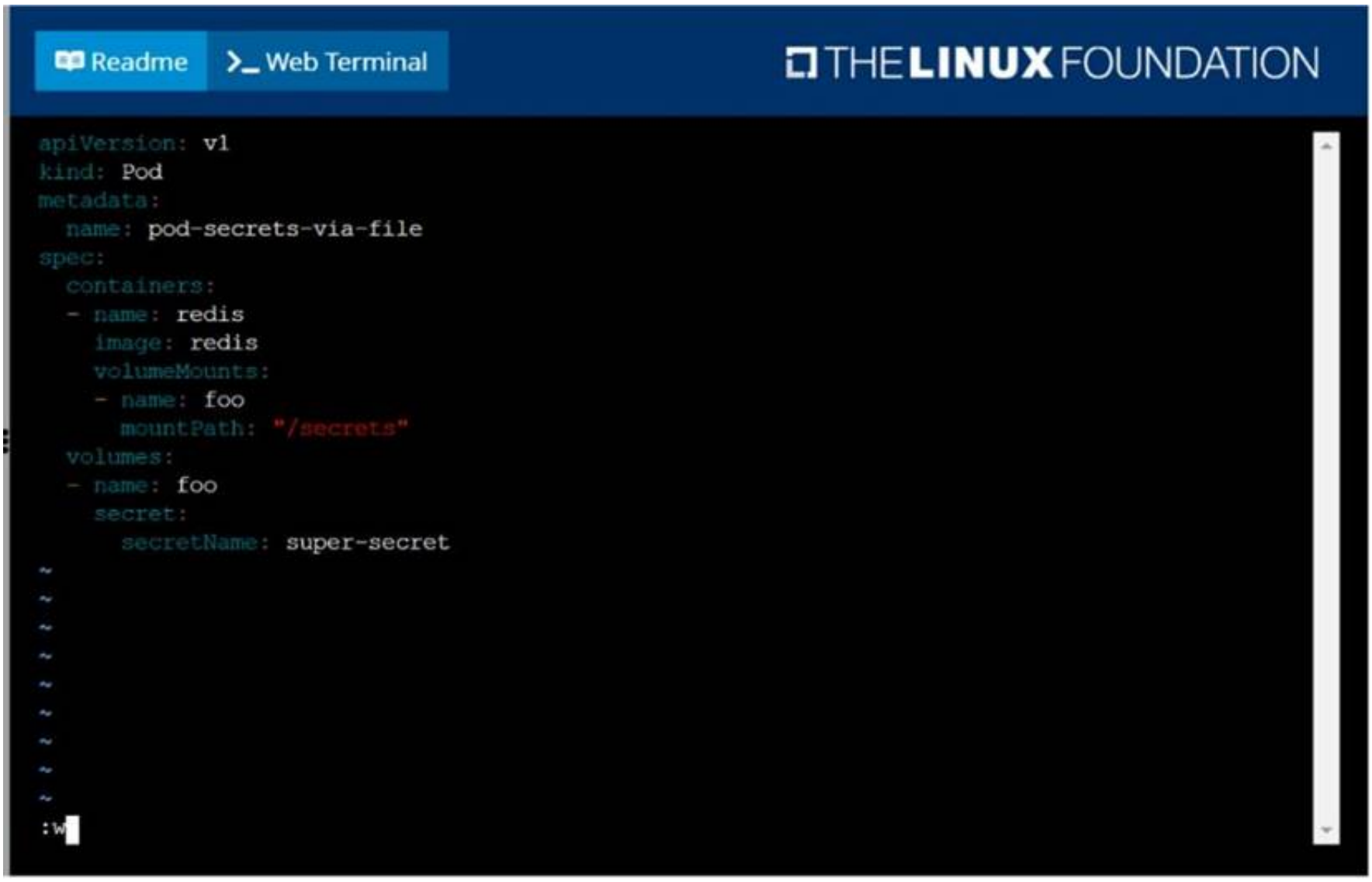

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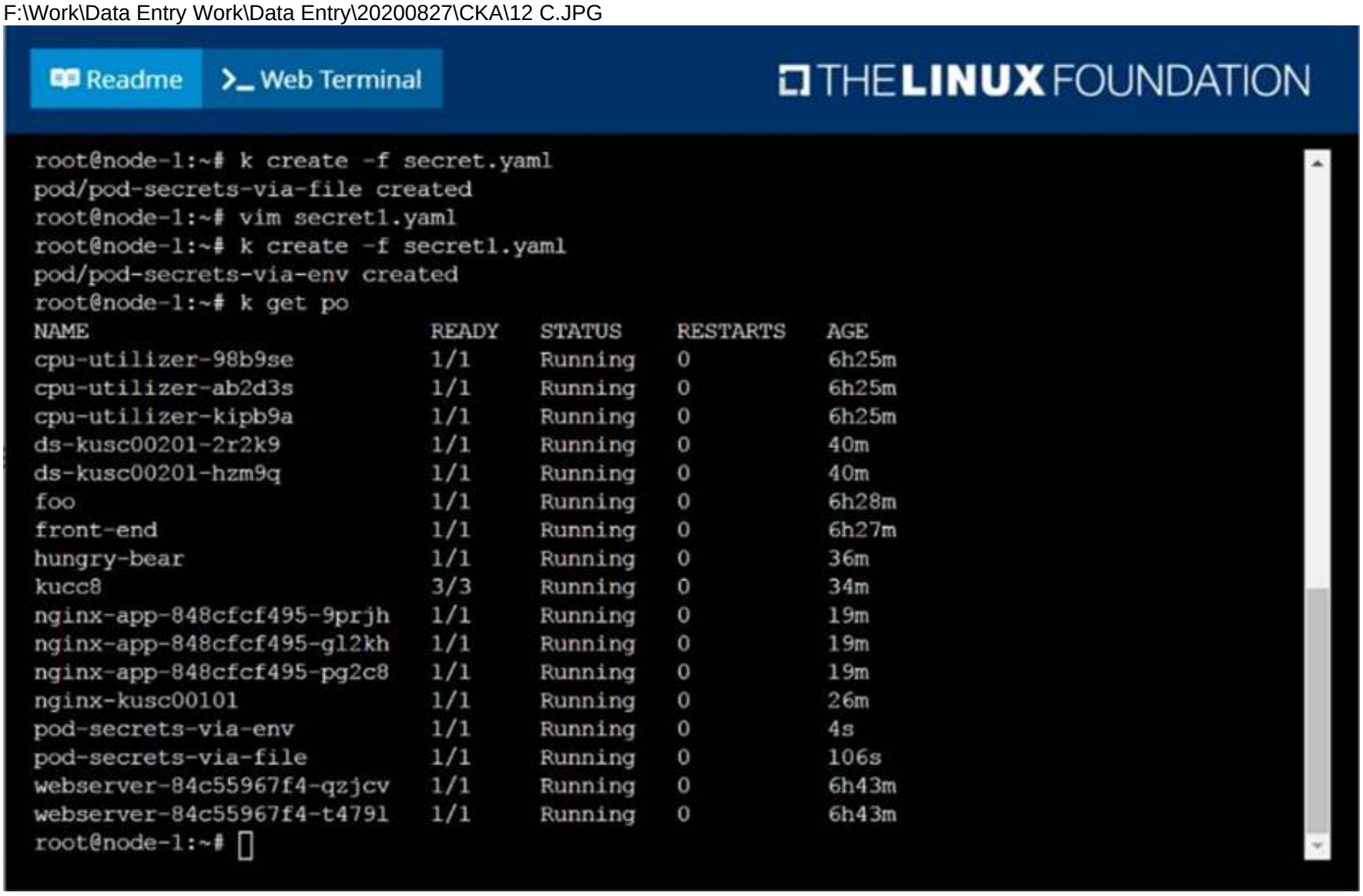

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NEW QUESTION 3
CORRECT TEXT
Get IP address of the pod – “nginx-dev”

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:

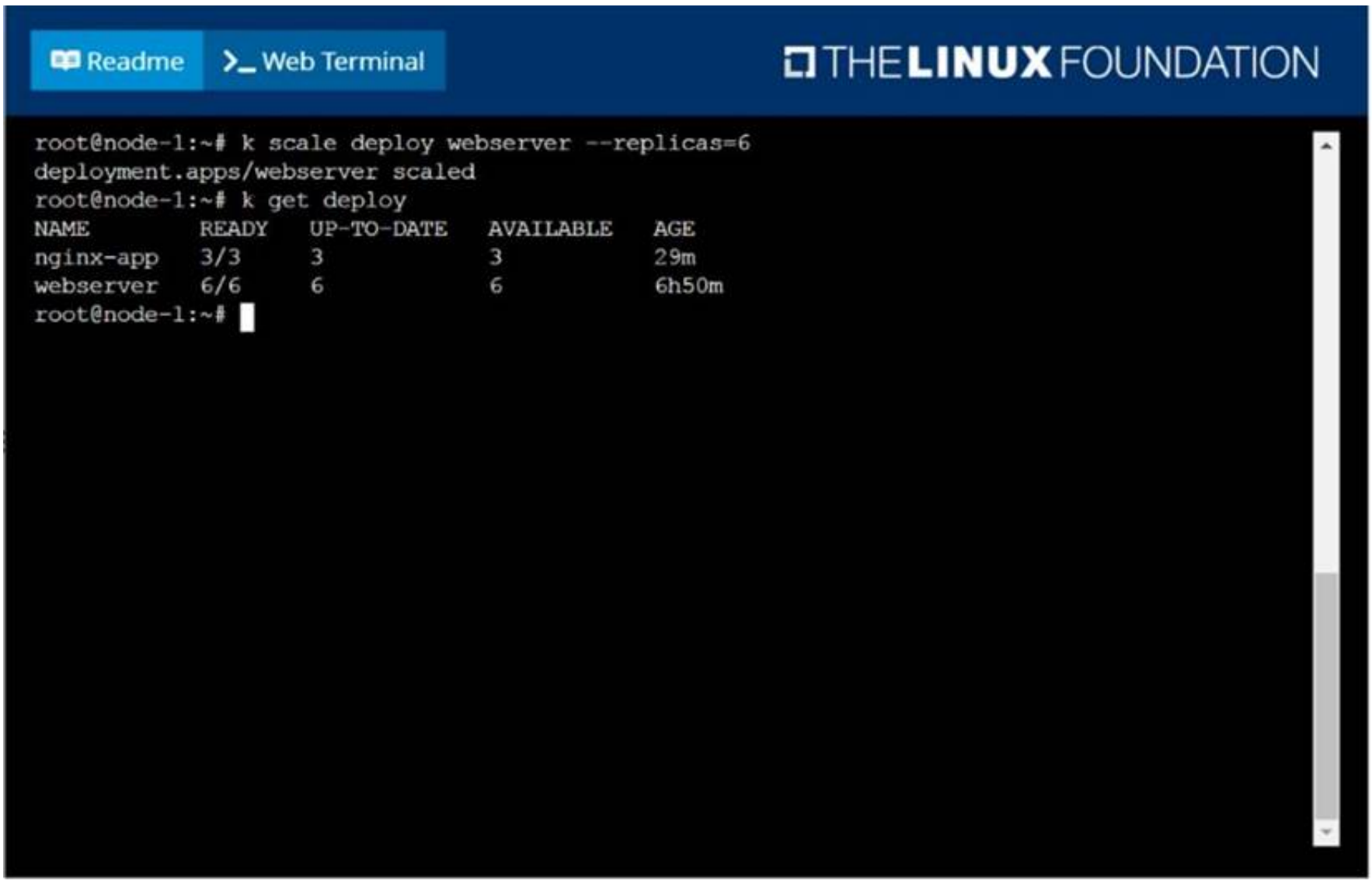
Solution:
#yaml
apiVersion: v1
kind: Pod
metadata:
name: nginx-kusc00401
spec:
containers:
- name: nginx
image: nginx
imagePullPolicy: IfNotPresent
nodeSelector:
disk: spinning
#
kubectl create -f node-select.yaml

NEW QUESTION 6
CORRECT TEXT
Scale the deployment webserver to 6 pods.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution



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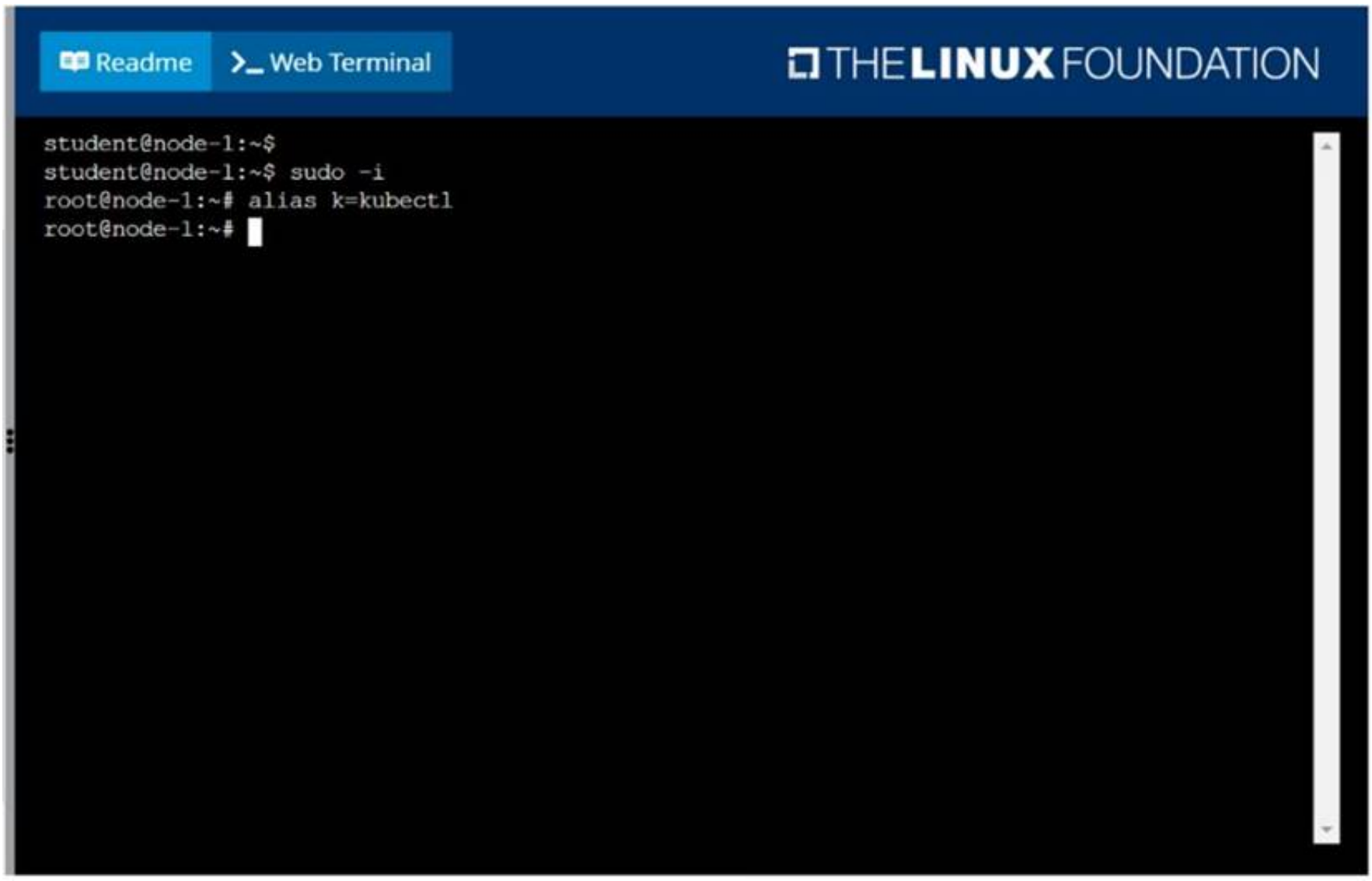
NEW QUESTION 7
CORRECT TEXT
Monitor the logs of pod foo and:
? Extract log lines corresponding to error
unable-to-access-website
? Write them to/opt/KULM00201/foo

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution



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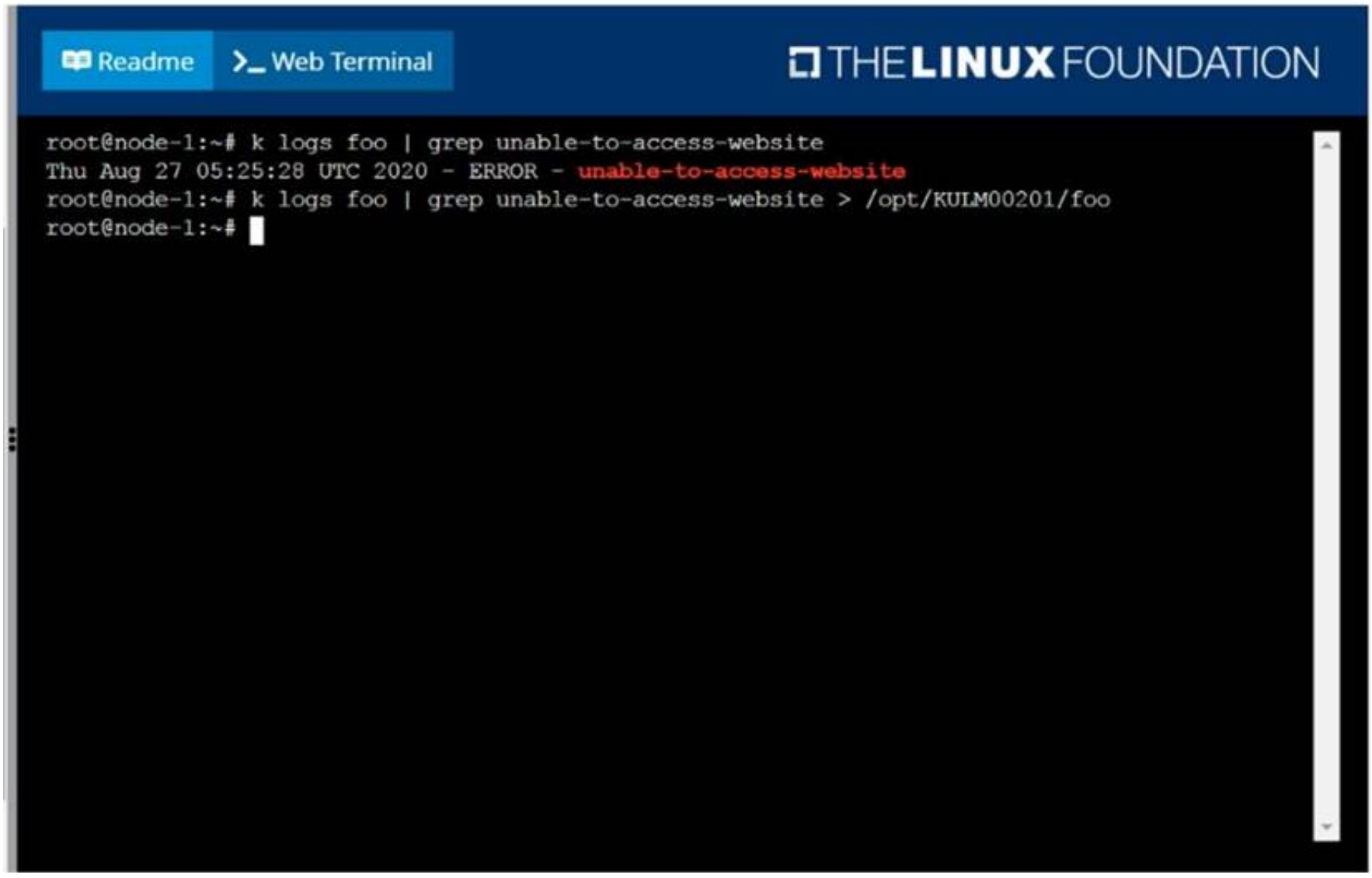

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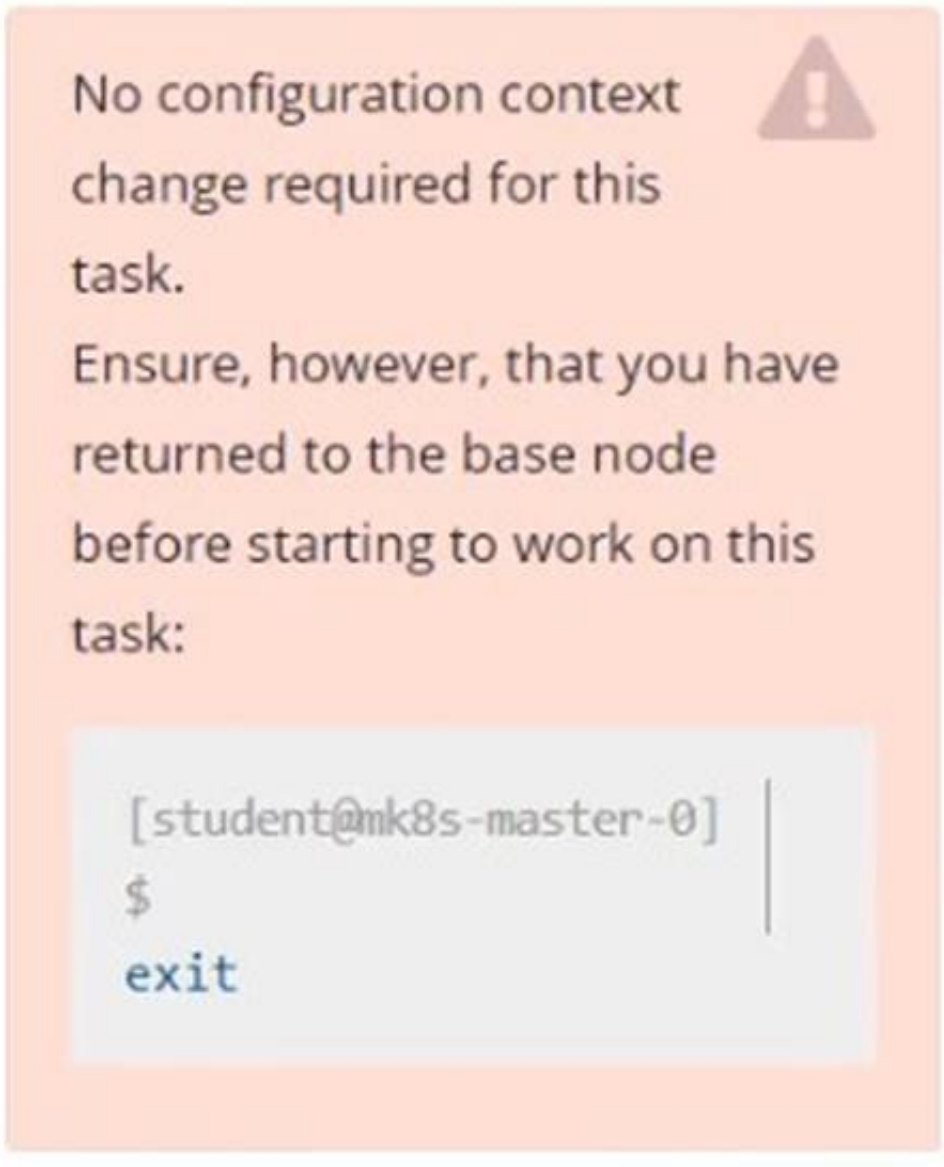
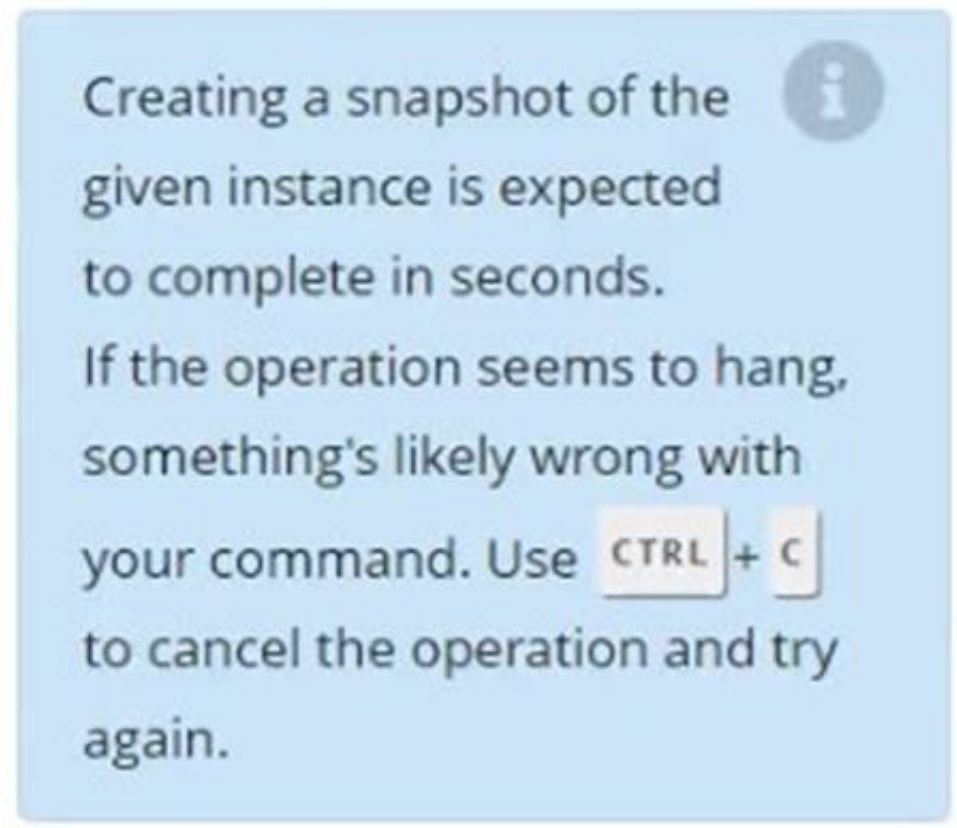
NEW QUESTION 8
CORRECT TEXT
Score: 7%



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.



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

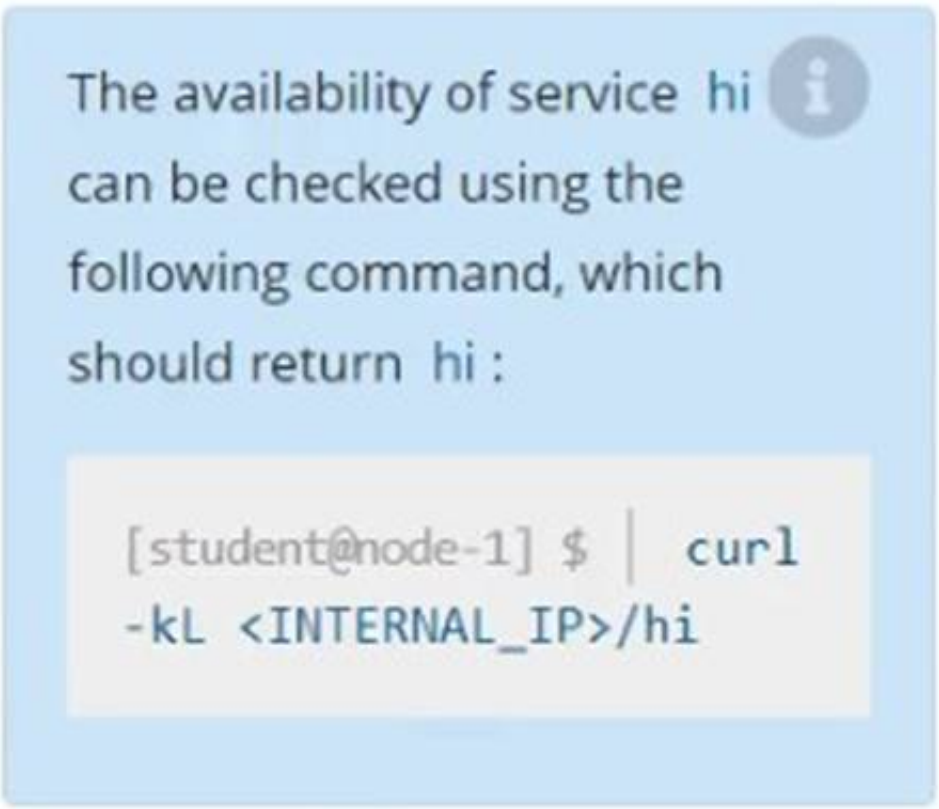
A. Mastered
B. Not Mastered

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
Score: 7%

Task
Create a new nginx Ingress resource as follows:
• Name: ping
• Namespace: ing-internal
• Exposing service hi on path /hi using service port 5678



A. Mastered
B. Not Mastered

Answer: A

Explanation:

Solution:
vi ingress.yaml
#
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
name: ping
namespace: ing-internal
spec:
rules:
- http:
paths:
- path: /hi
pathType: Prefix
backend:
service:
name: hi
port:
number: 5678
#
kubectl create -f ingress.yaml

NEW QUESTION 10
CORRECT TEXT

Check the Image version of nginx-dev pod using jsonpath

A. Mastered
B. Not Mastered

Answer: A

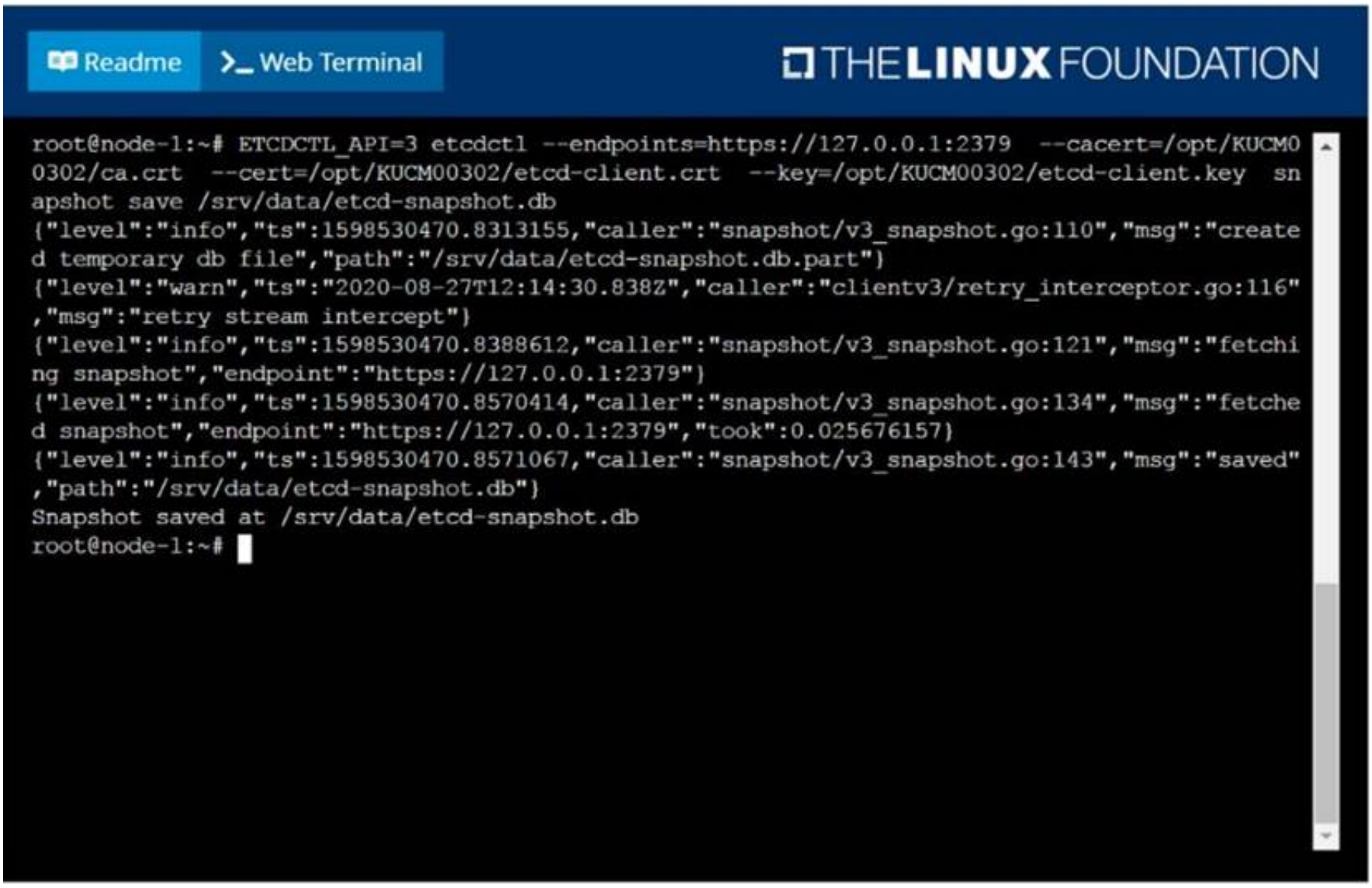
Explanation:
kubect1 get po nginx-dev -o
jsonpath='{.spec.containers[].image}{"\n"}'

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



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NEW QUESTION 15
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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Readme | Web Terminal — THE LINUX FOUNDATION

```
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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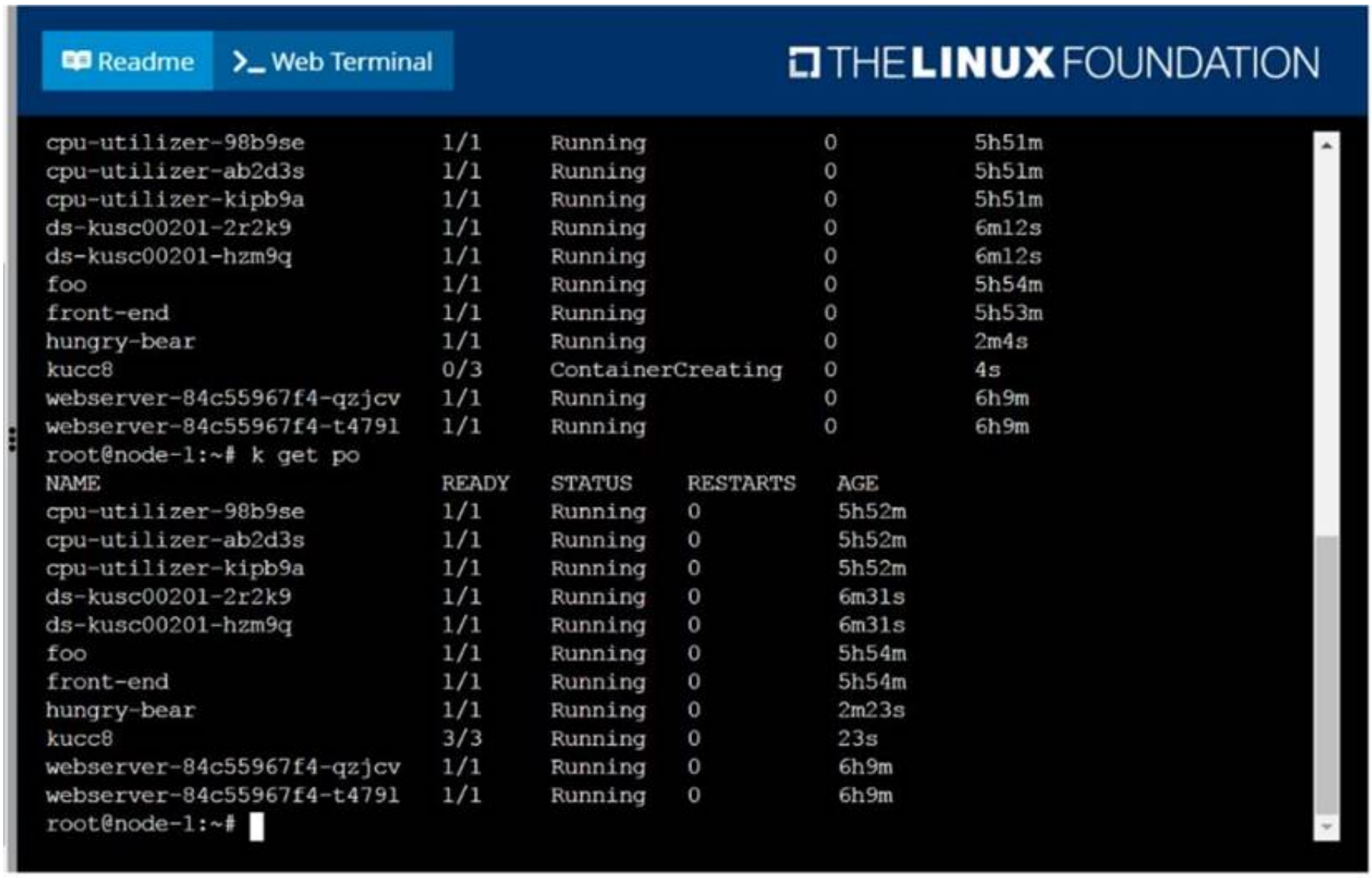

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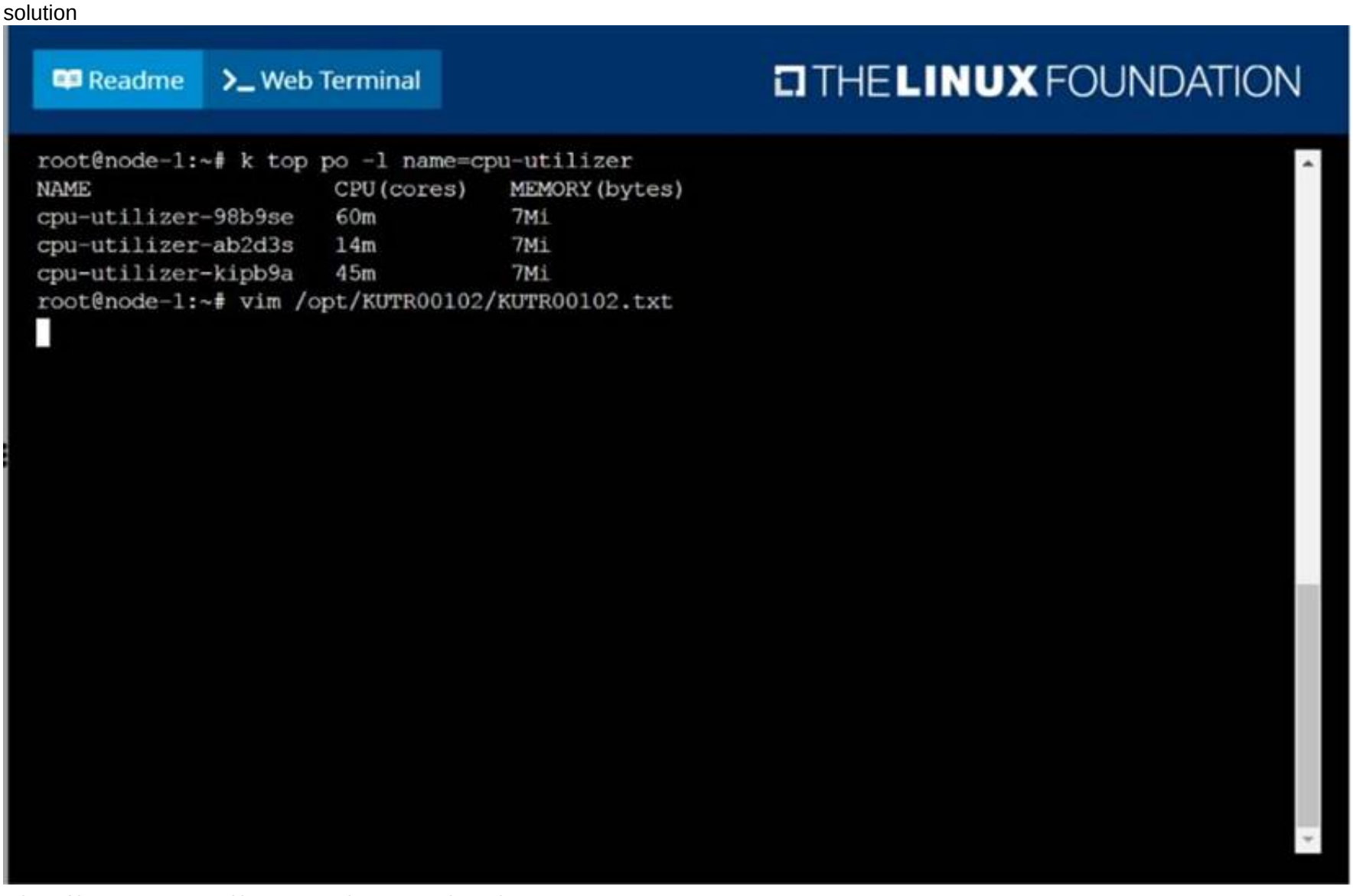
NEW QUESTION 18
CORRECT TEXT
From the pod label name=cpu-utilizer, find pods running high CPU workloads and
write the name of the pod consuming most CPU to the file /opt/KUTR00102/KUTR00102.txt
(which already exists).

A.

Answer: Seethesolutionbelow.

Explanation:
solution



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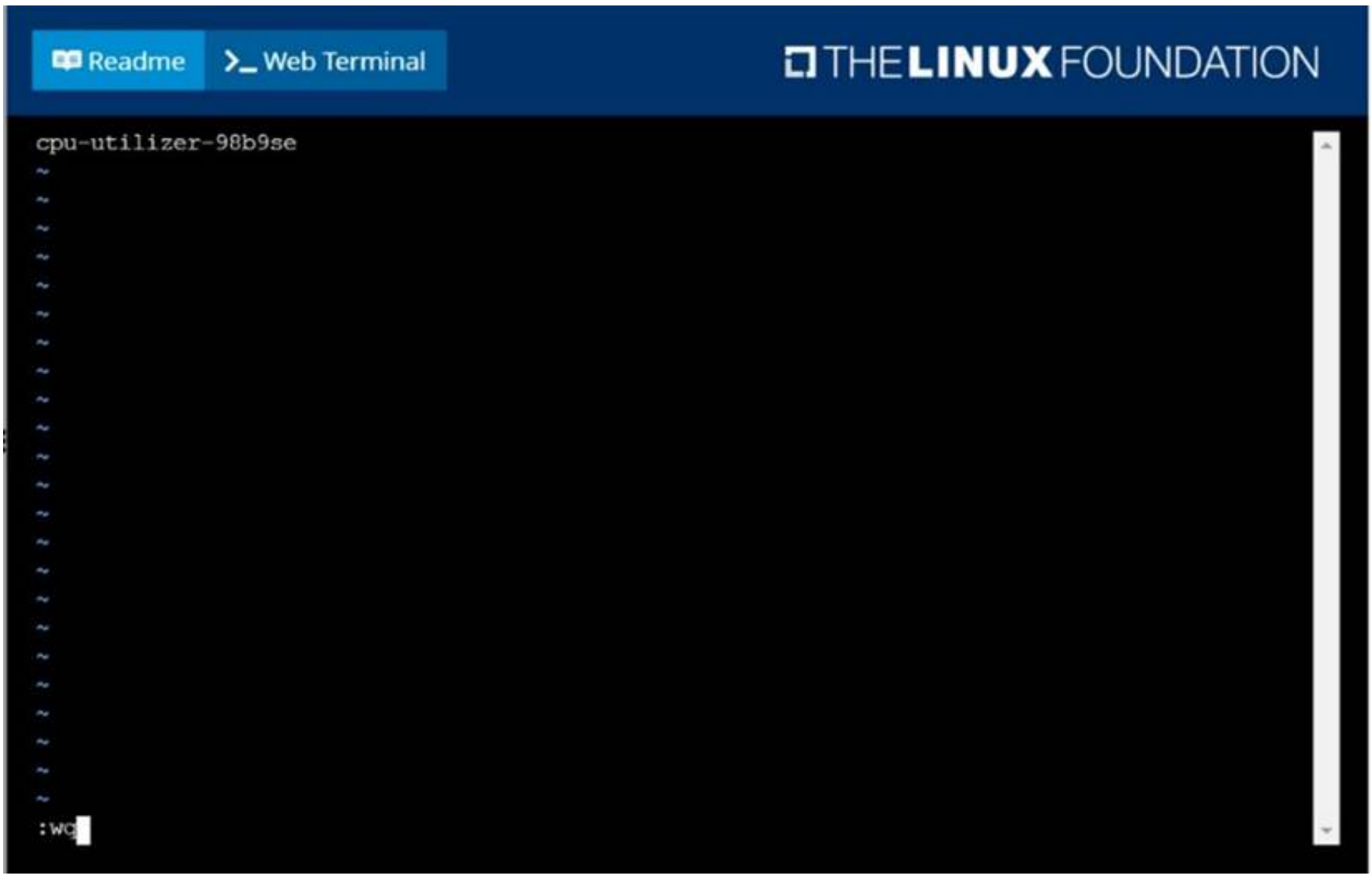

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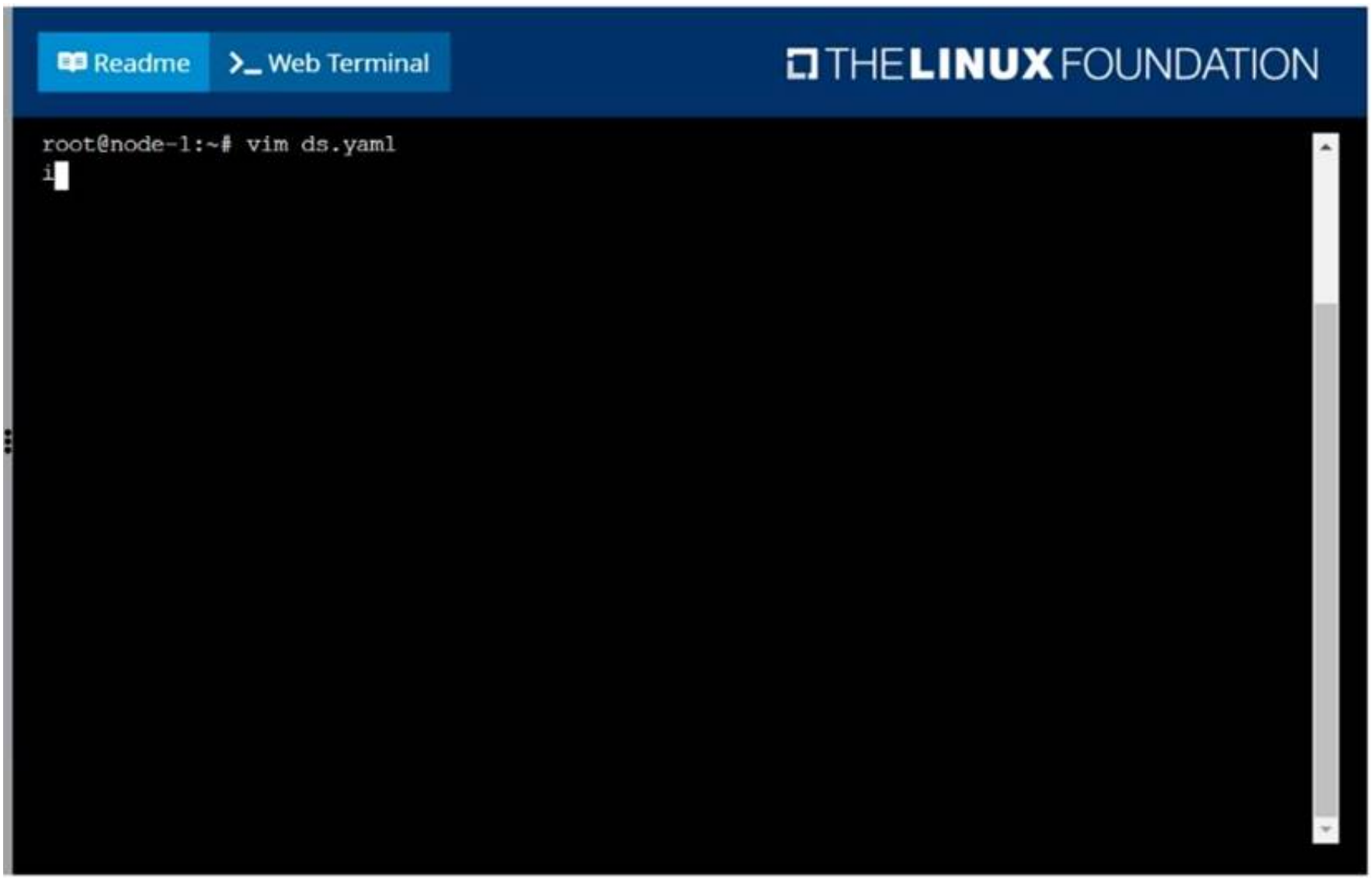
NEW QUESTION 19
CORRECT TEXT
Ensure a single instance of pod nginx is running on each node of the Kubernetes cluster where nginx also represents the Image name which has to be used. Do not override any taints currently in place.
Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution



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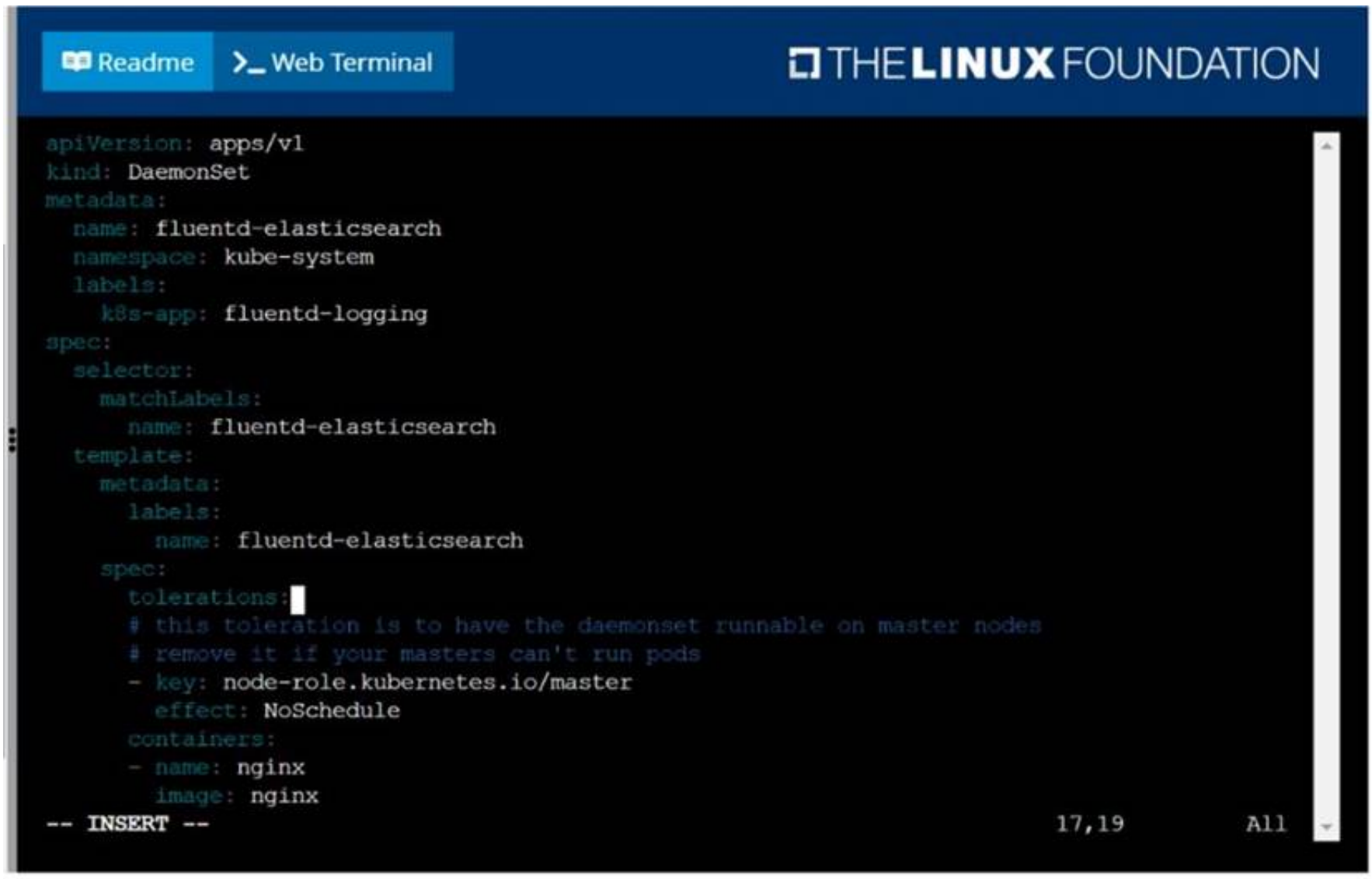

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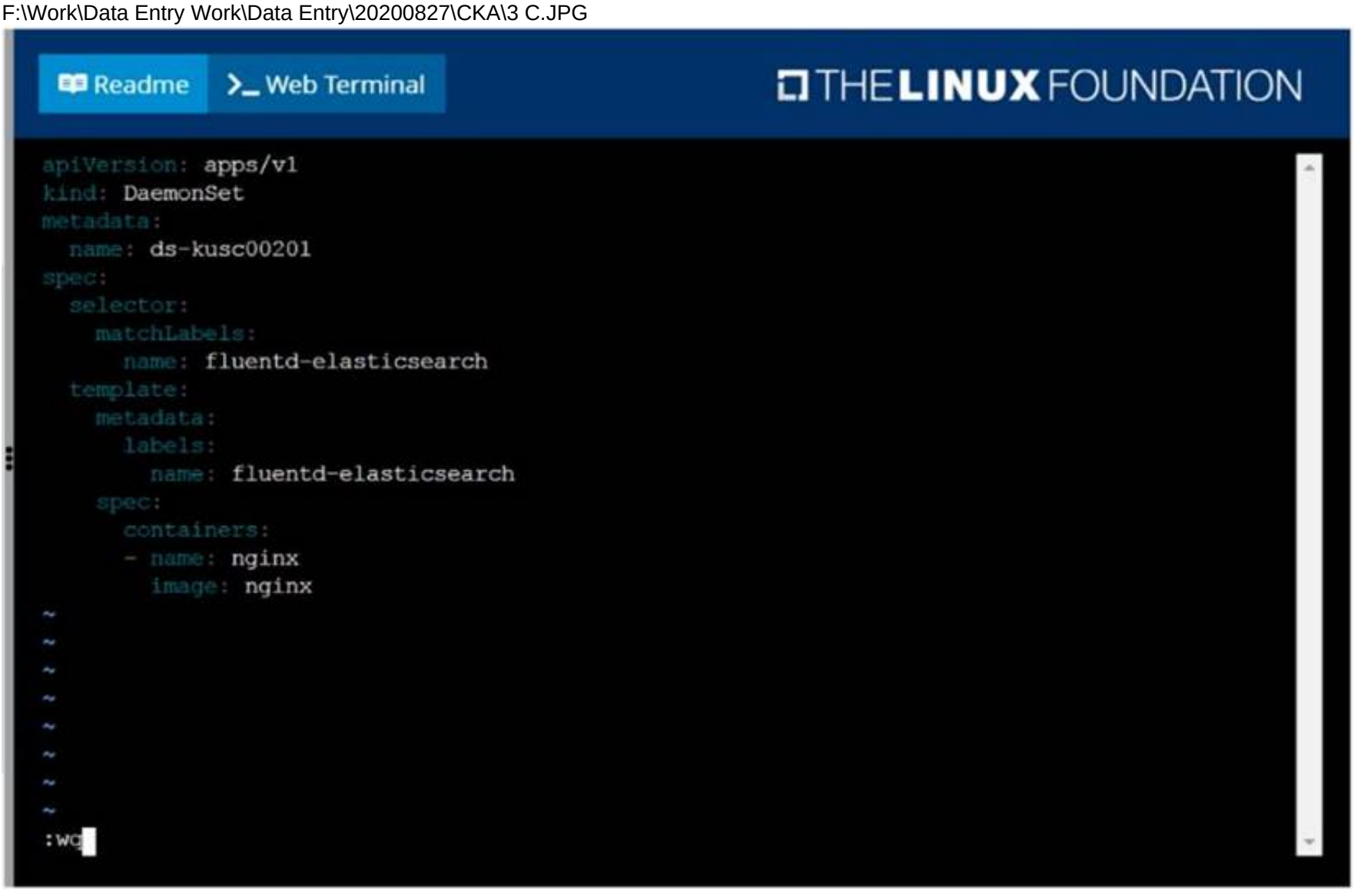

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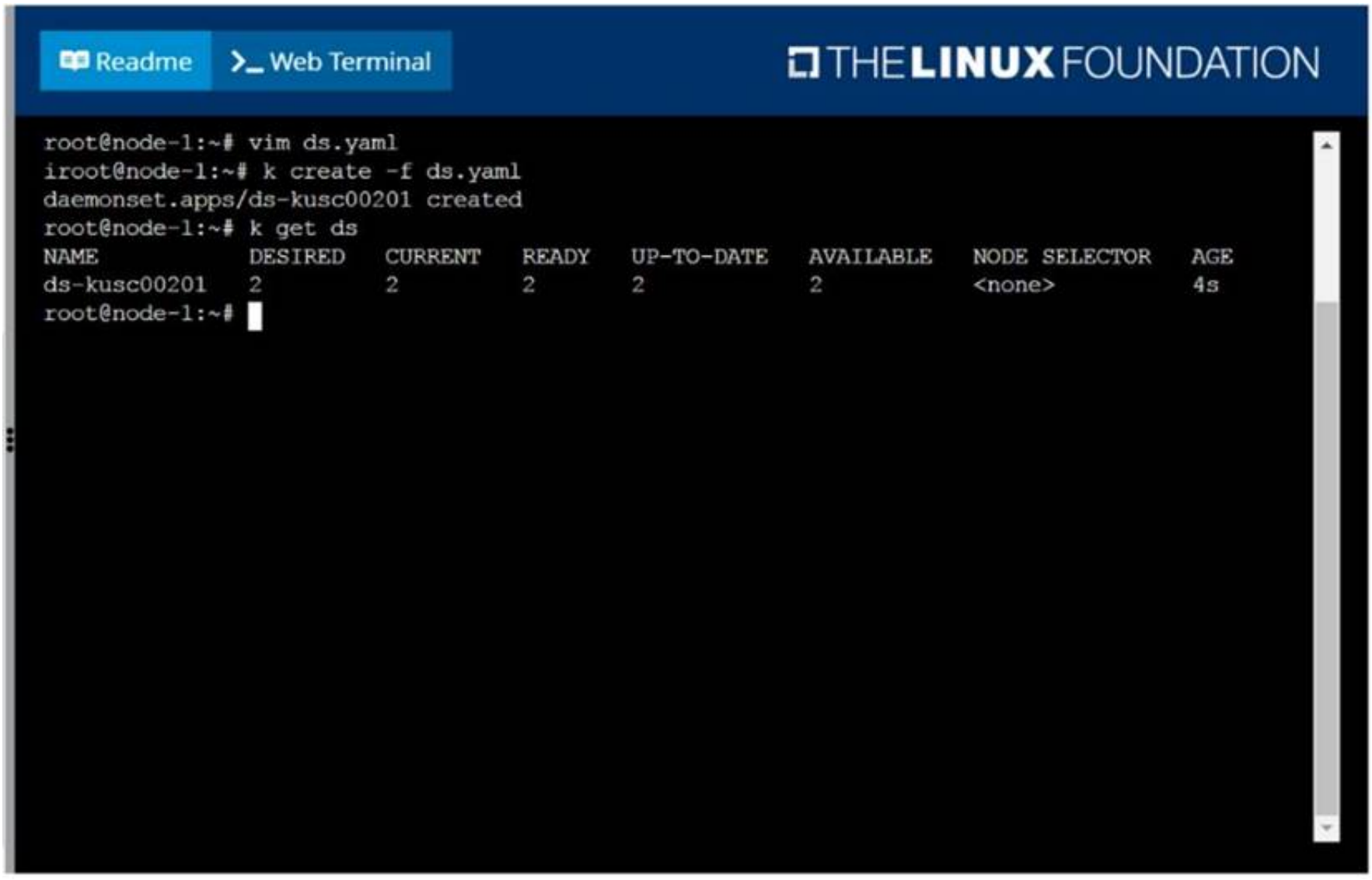

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NEW QUESTION 24
CORRECT TEXT
Score: 4%

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

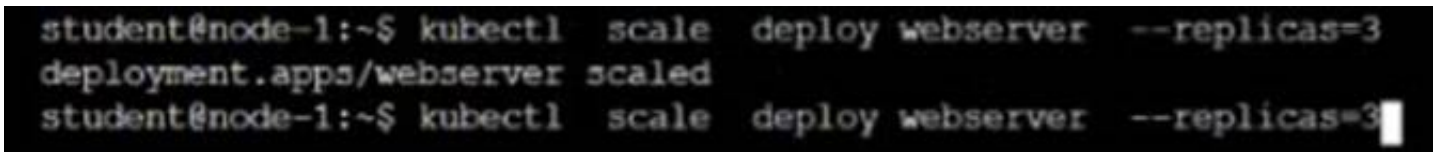
NEW QUESTION 28
CORRECT TEXT
Task Weight: 4%

Task
Scale the deployment webserver to 3 pods.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution:



NEW QUESTION 32
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 36
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 40
CORRECT TEXT
Create a busybox pod that runs the command “env” and save the output to “envpod” file

A. Mastered
B. Not Mastered

Answer: A

Explanation:
kubectl run busybox --image=busybox --restart=Never –-rm -it -- env > envpod.yaml

NEW QUESTION 42
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 46
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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