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

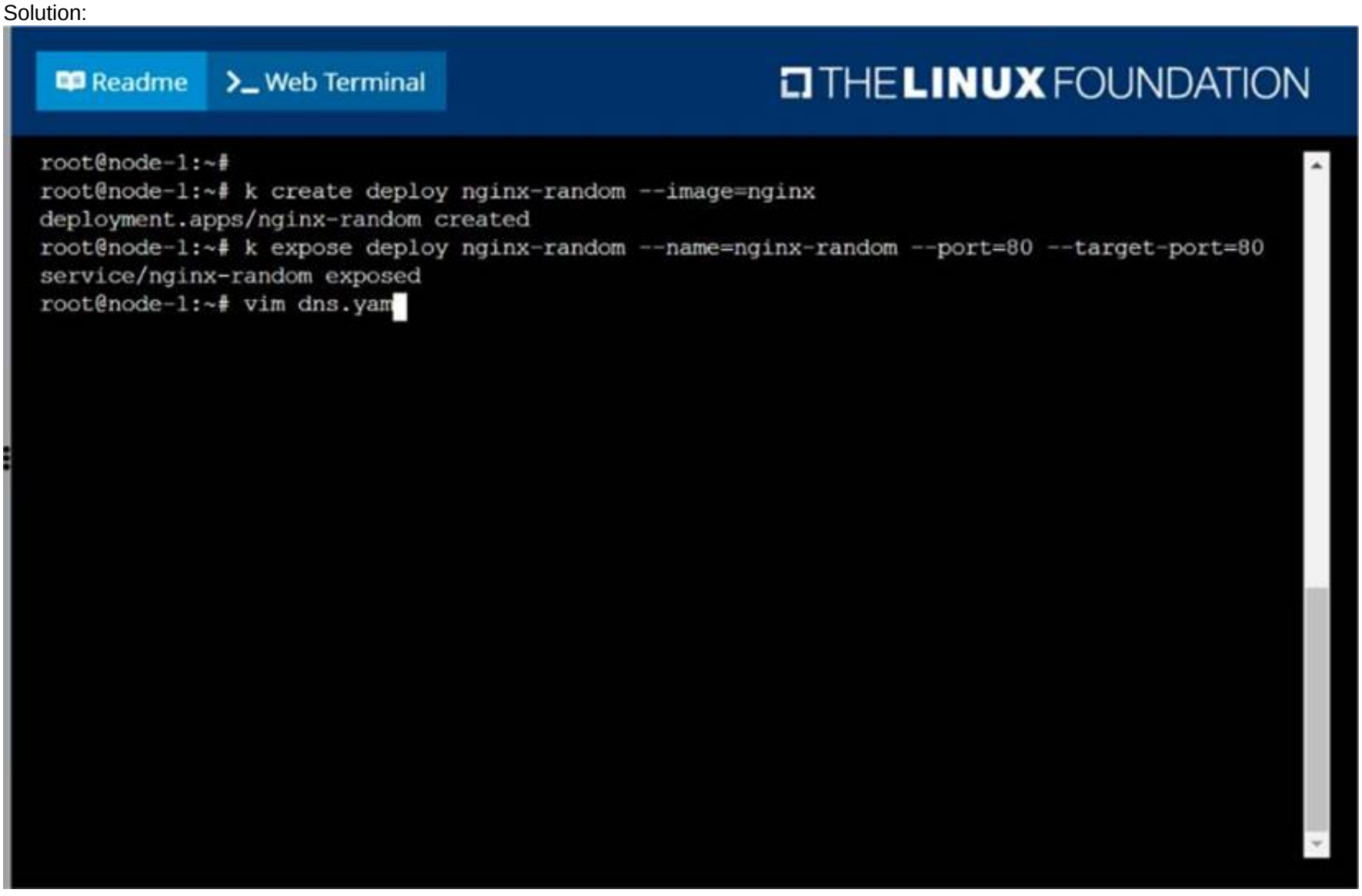
Explanation:
kubectl run nginx --image=nginx --restart=Never --port=80

NEW QUESTION 2
CORRECT TEXT
Create a 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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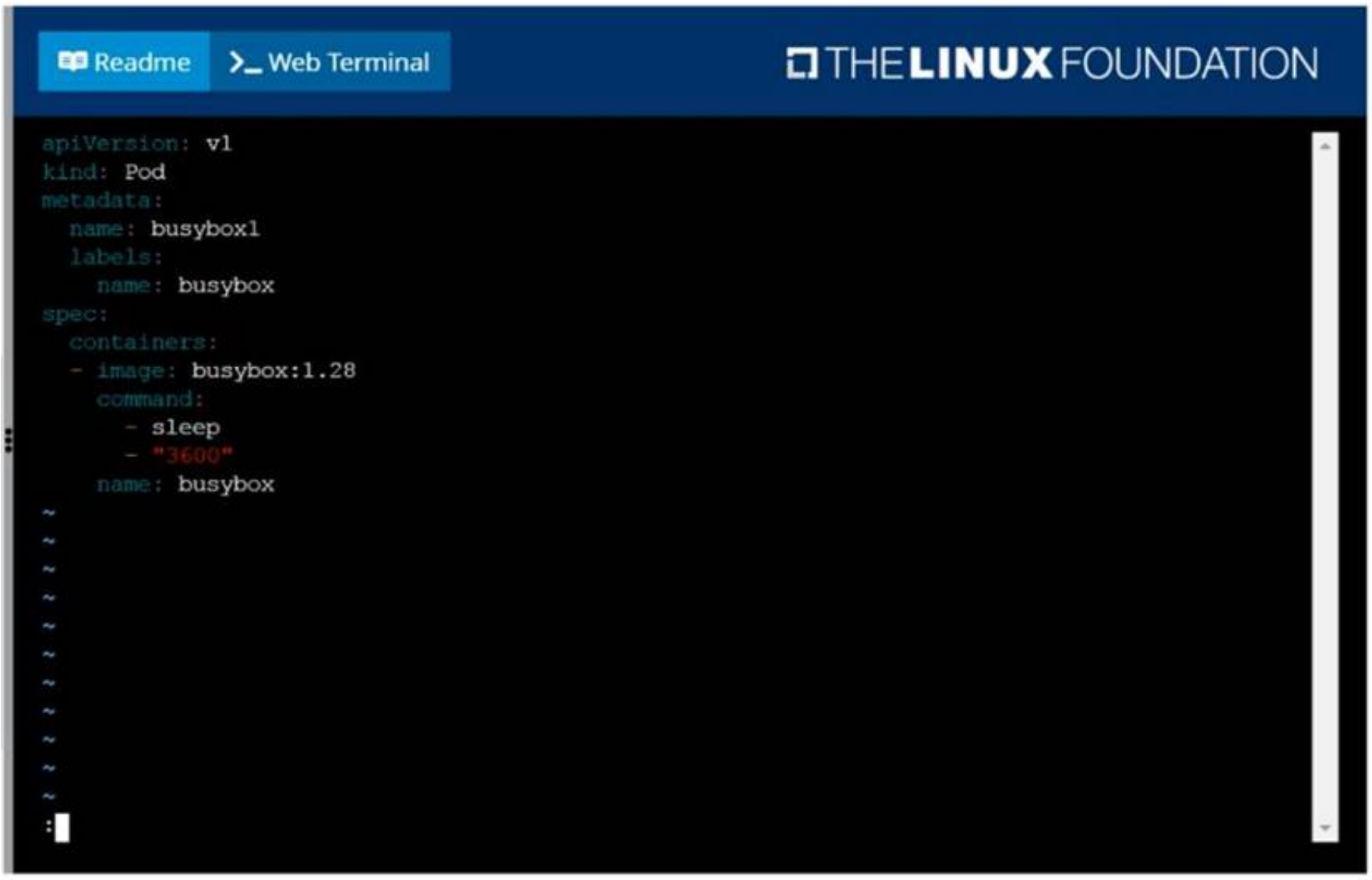

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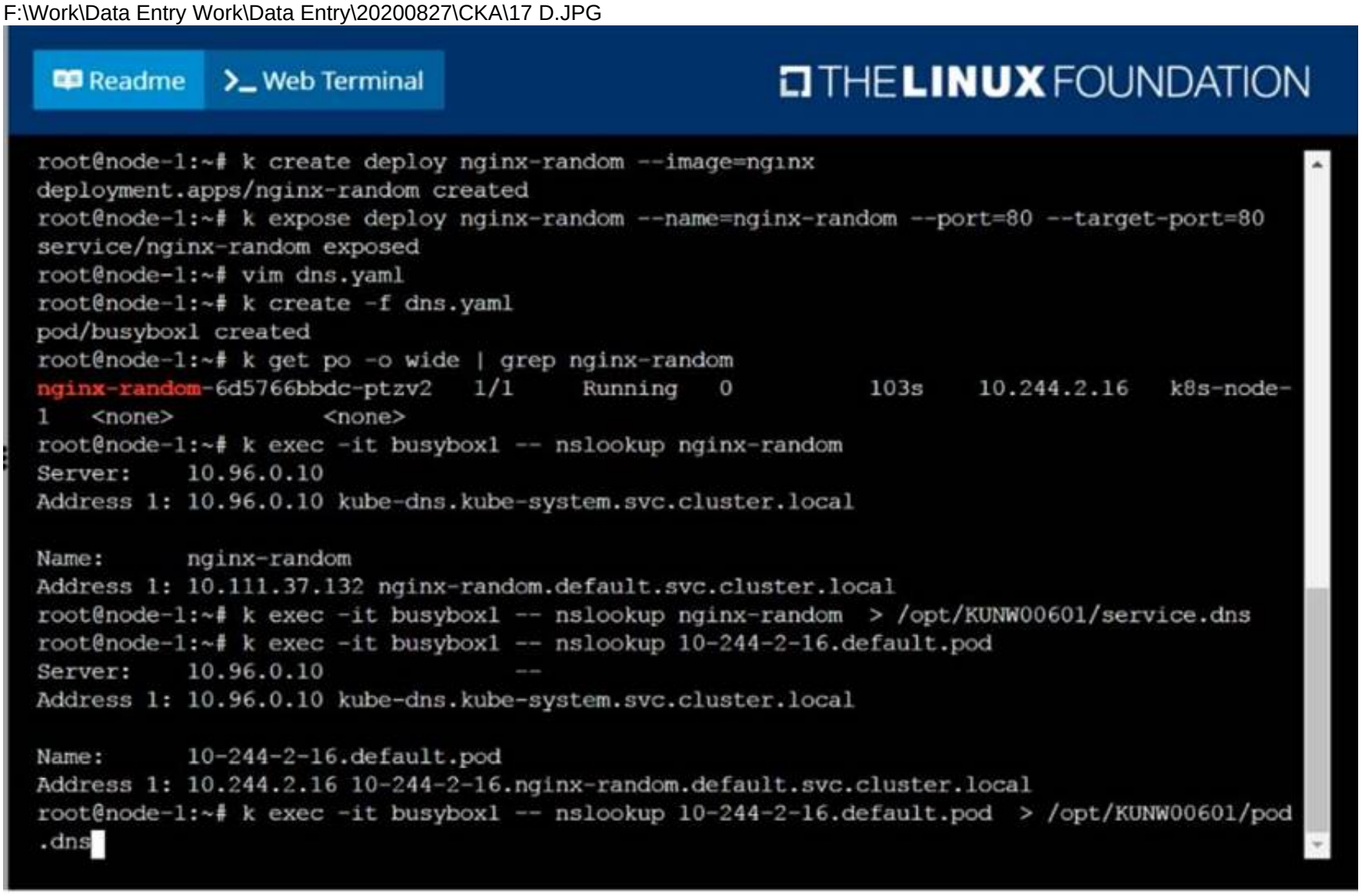

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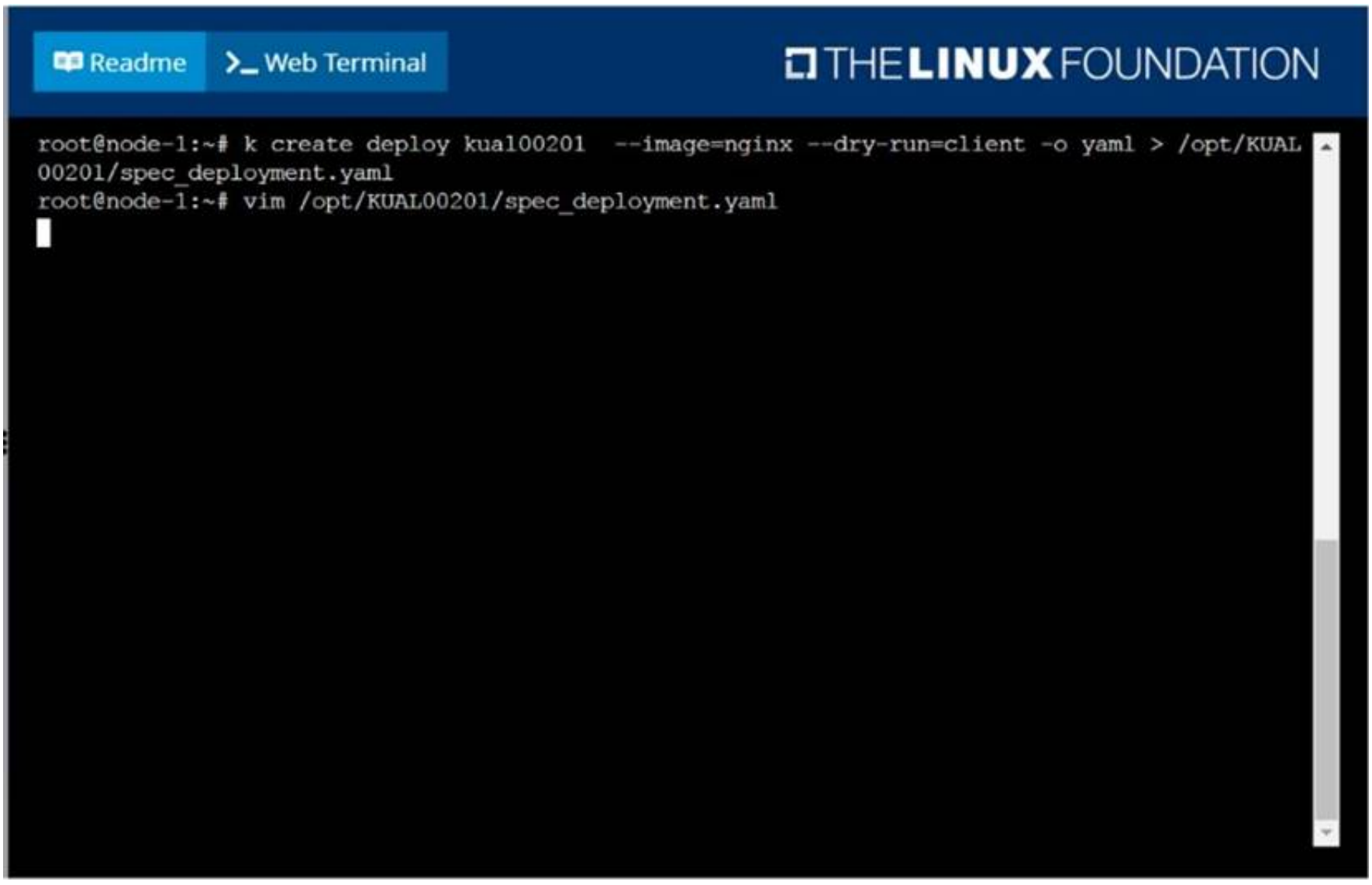
NEW QUESTION 3
CORRECT TEXT
Create a deployment spec file that will:
? Launch 7 replicas of the nginx Image with the labelapp_runtime_stage=dev
? deployment name: kual00201
Save a copy of this spec file to /opt/KUAL00201/spec_deployment.yaml
(or /opt/KUAL00201/spec_deployment.json).
When you are done, 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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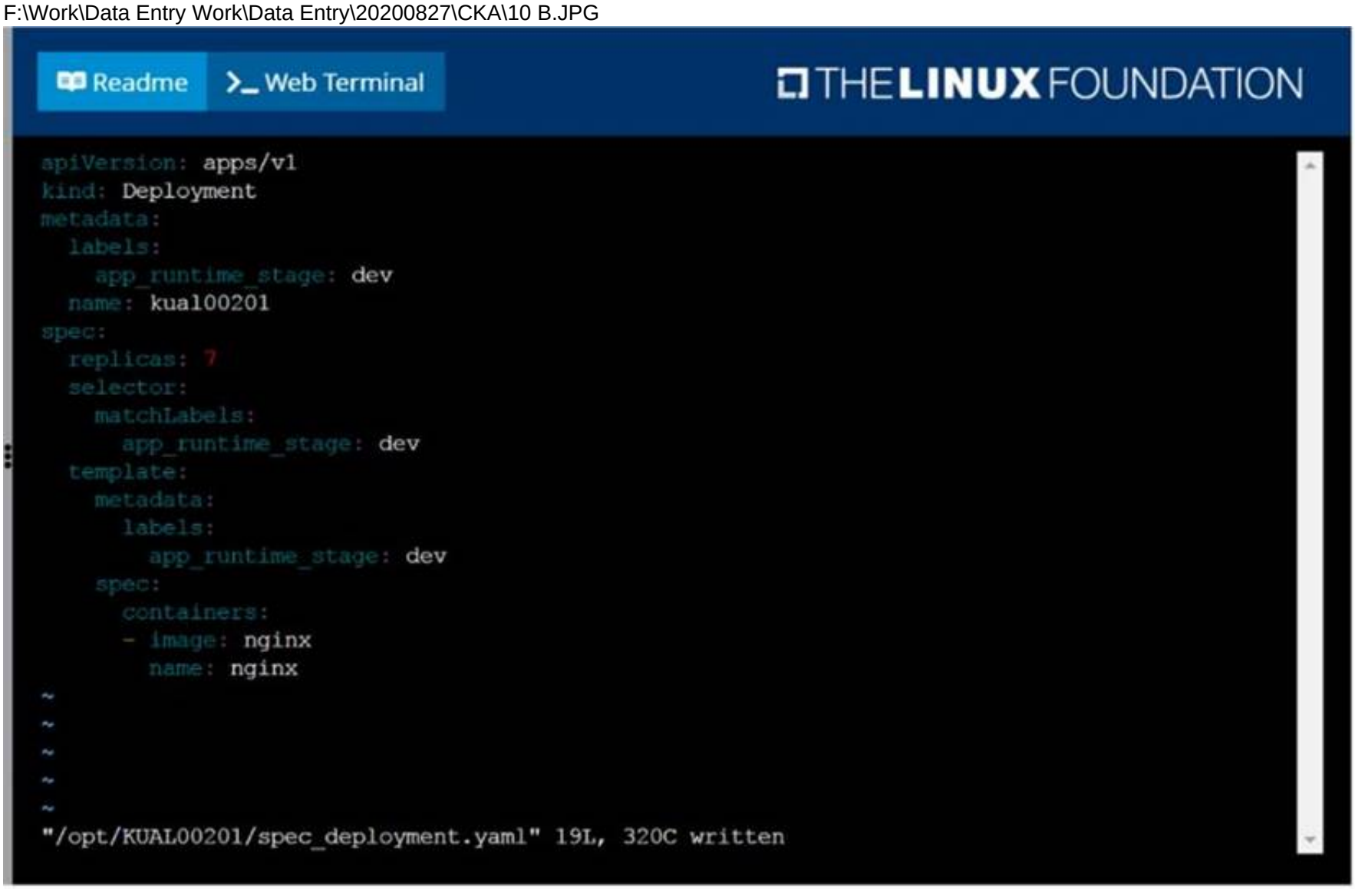

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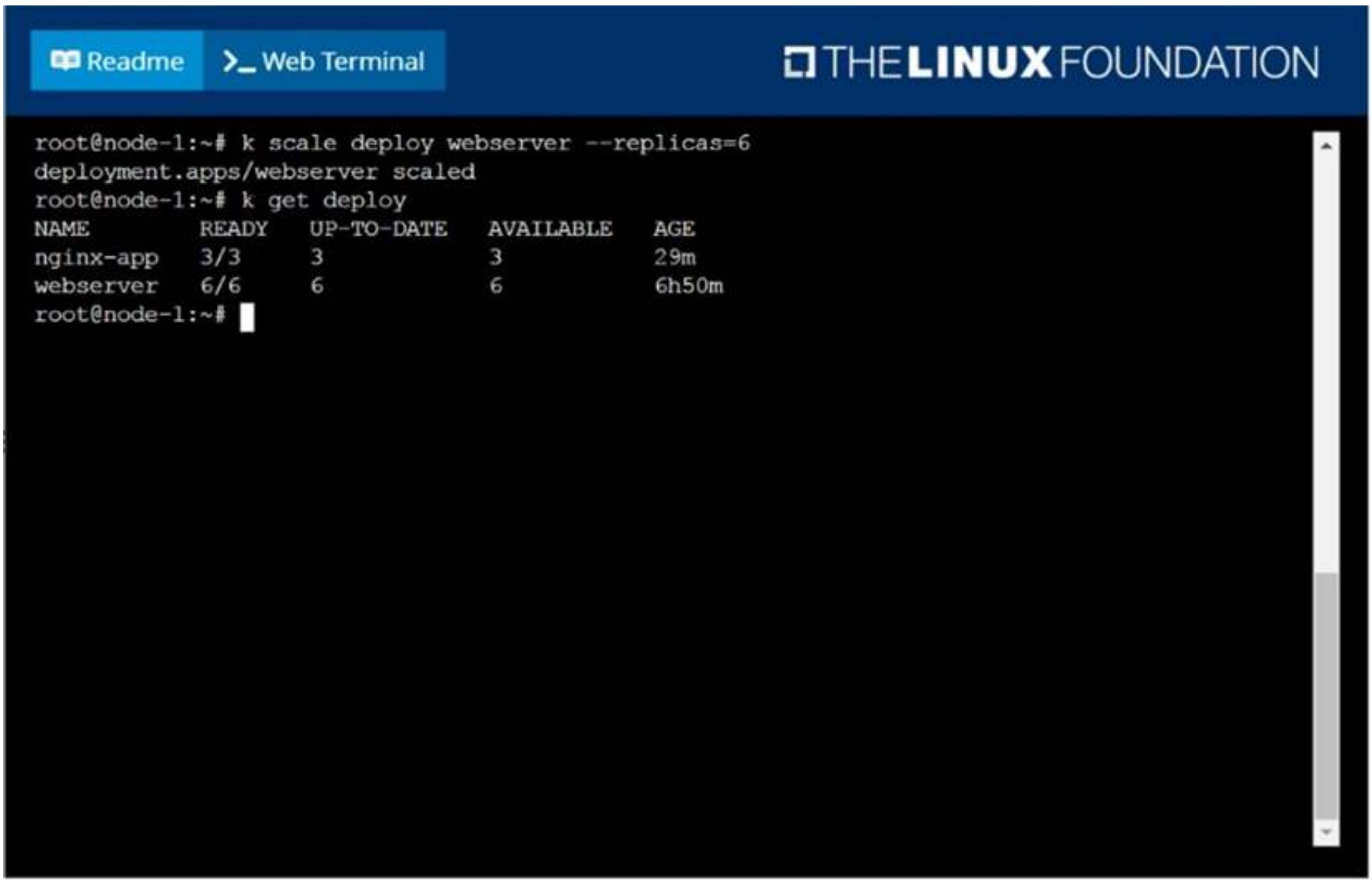
NEW QUESTION 4
CORRECT TEXT
Scale the deployment webserver to 6 pods.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution



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NEW QUESTION 5
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

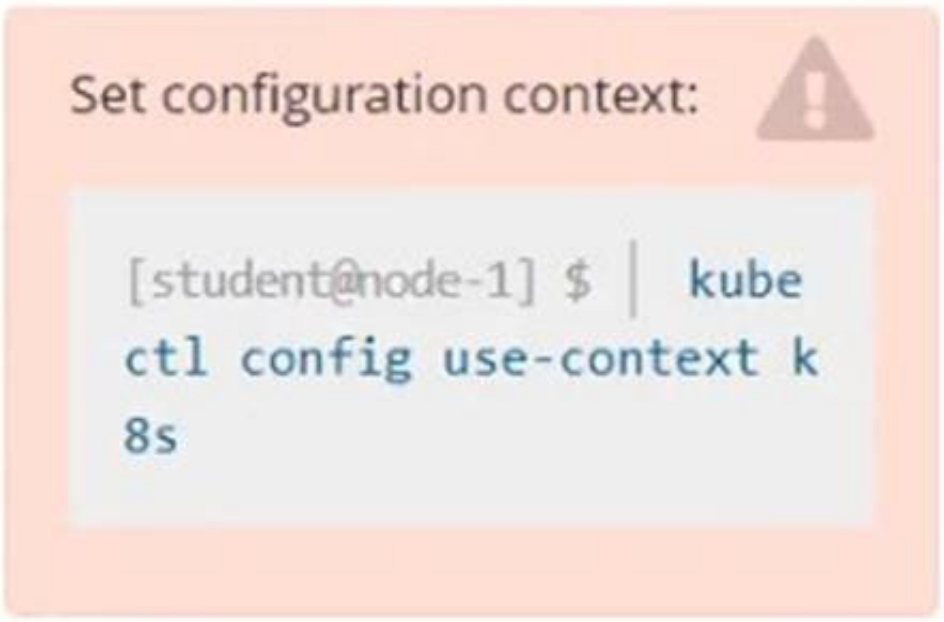
Answer: A

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 6
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 --tarport=80 -- type=NodePort

NEW QUESTION 7
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

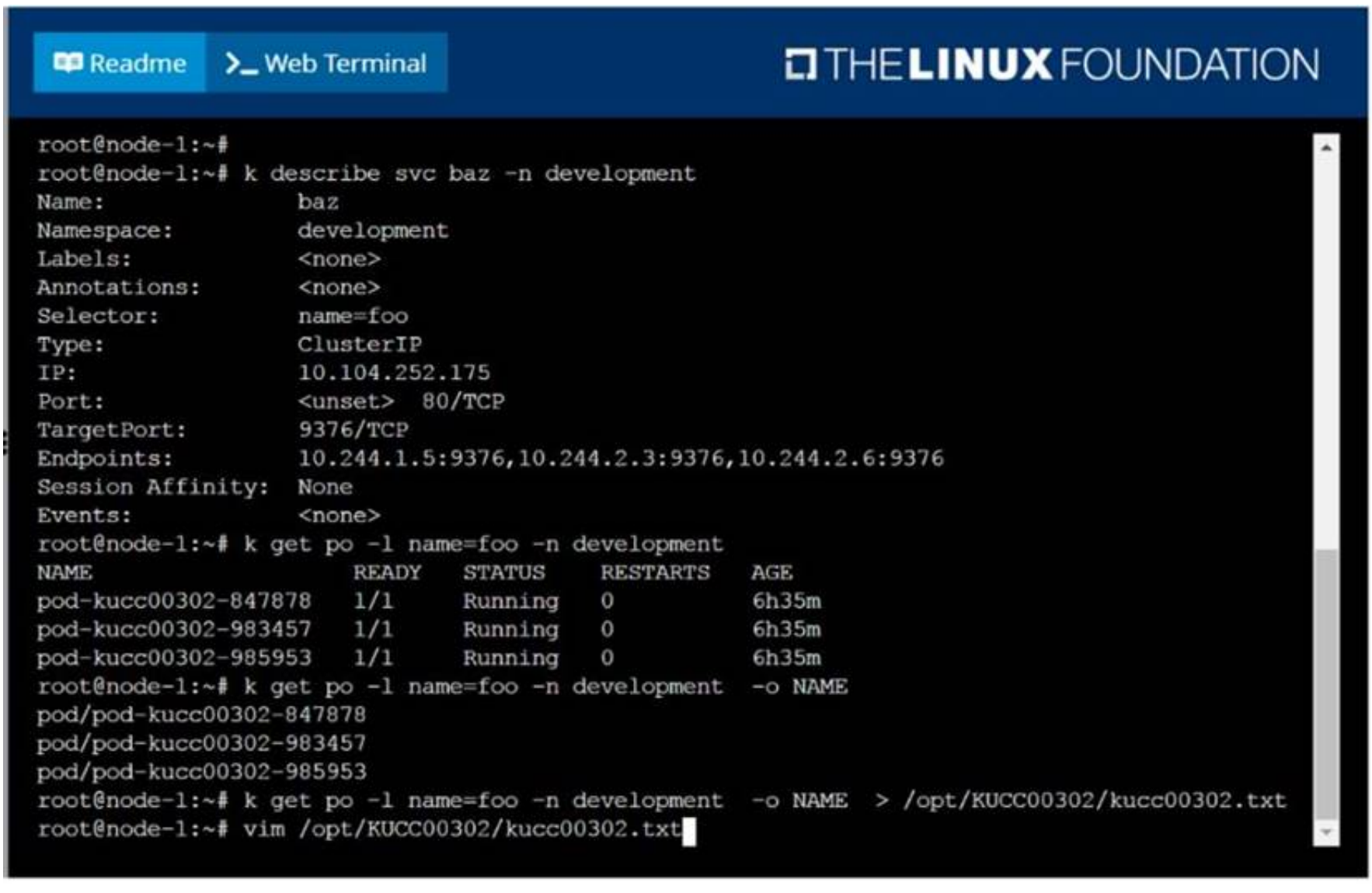
kubectl get po nginx --v=7
kubectl get po nginx --v=8
kubectl get po nginx --v=9

NEW QUESTION 8
CORRECT TEXT
Create a file:
/opt/KUCC00302/kucc00302.txt that lists all pods that implement service baz in namespace development.
The format of the file should be one pod name per line.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution



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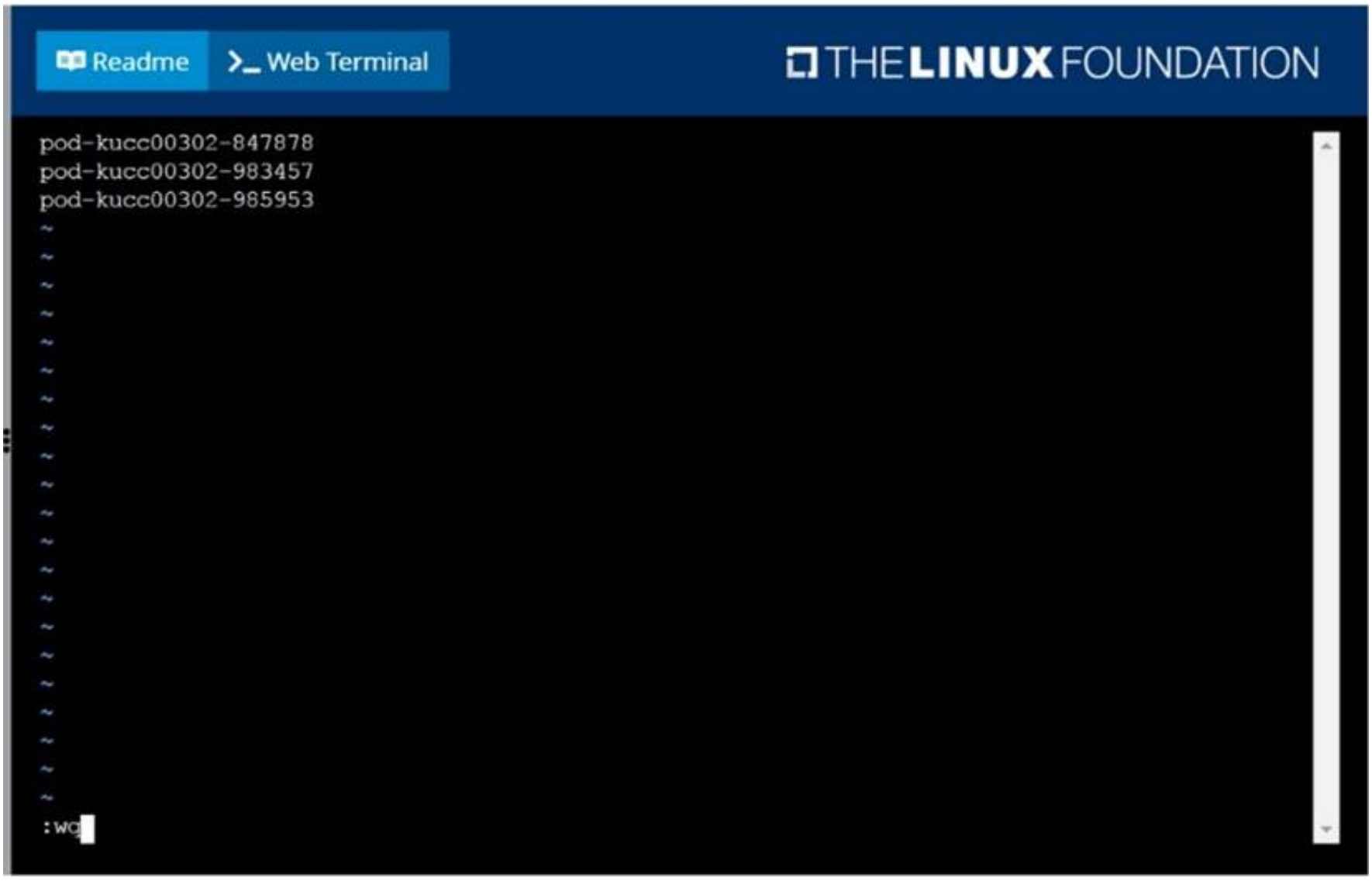

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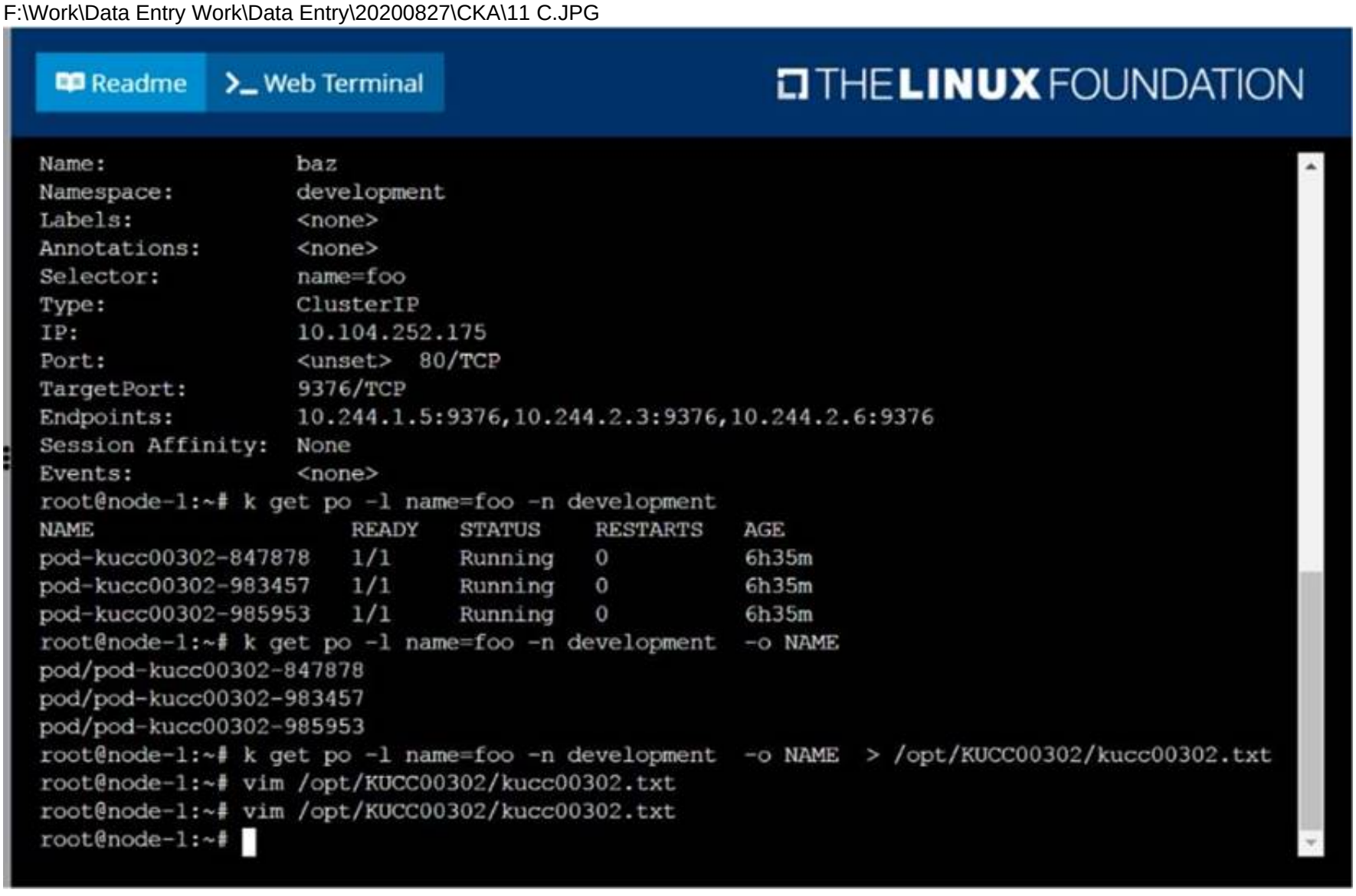

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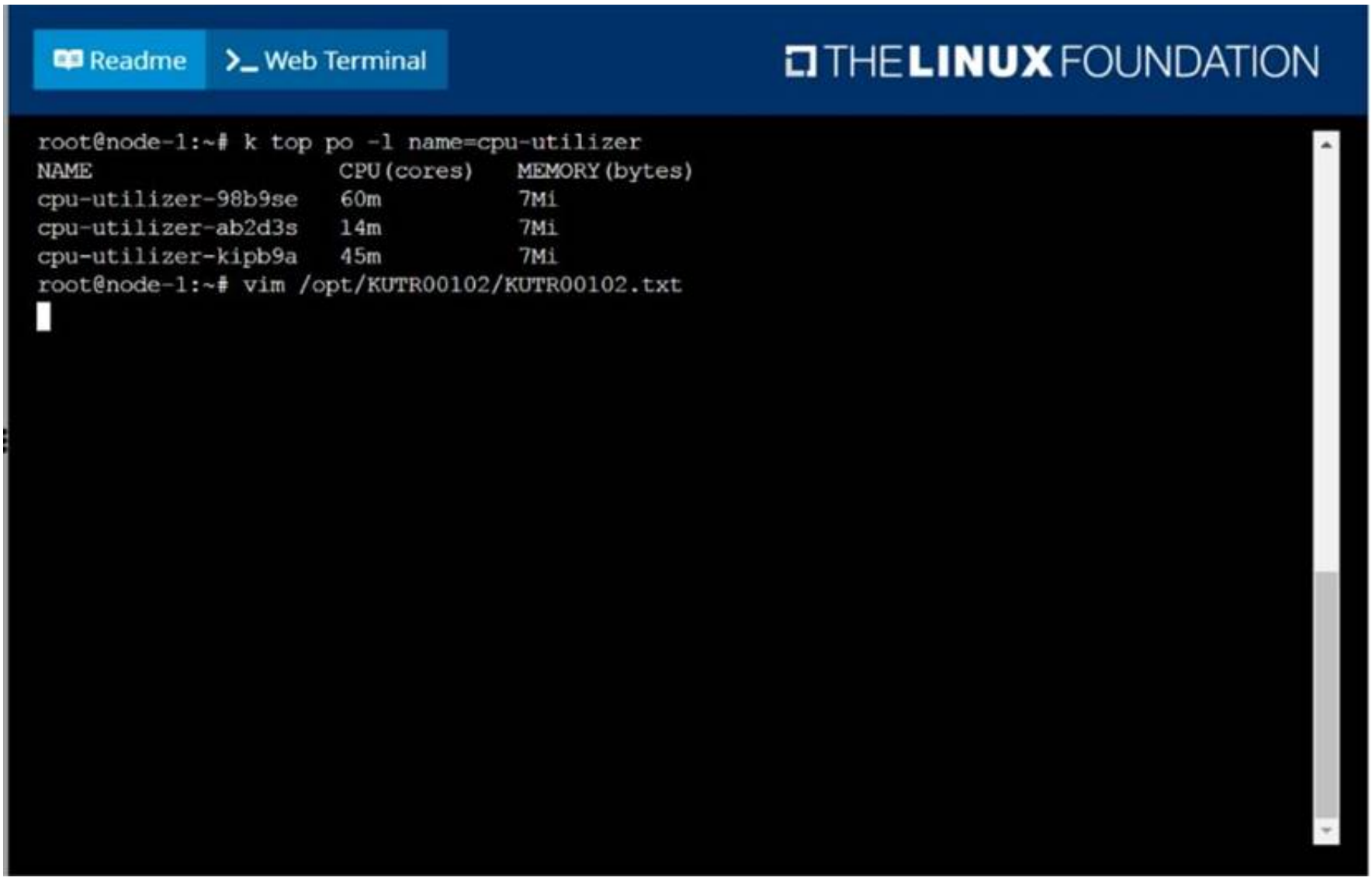
NEW QUESTION 9
CORRECT TEXT
From the pod label name=cpu-utilizer, find pods running high CPU workloads and
write the name of the pod consuming most CPU to the file /opt/KUTR00102/KUTR00102.txt
(which already exists).

A.

Answer: Seethesolutionbelow.

Explanation:
solution



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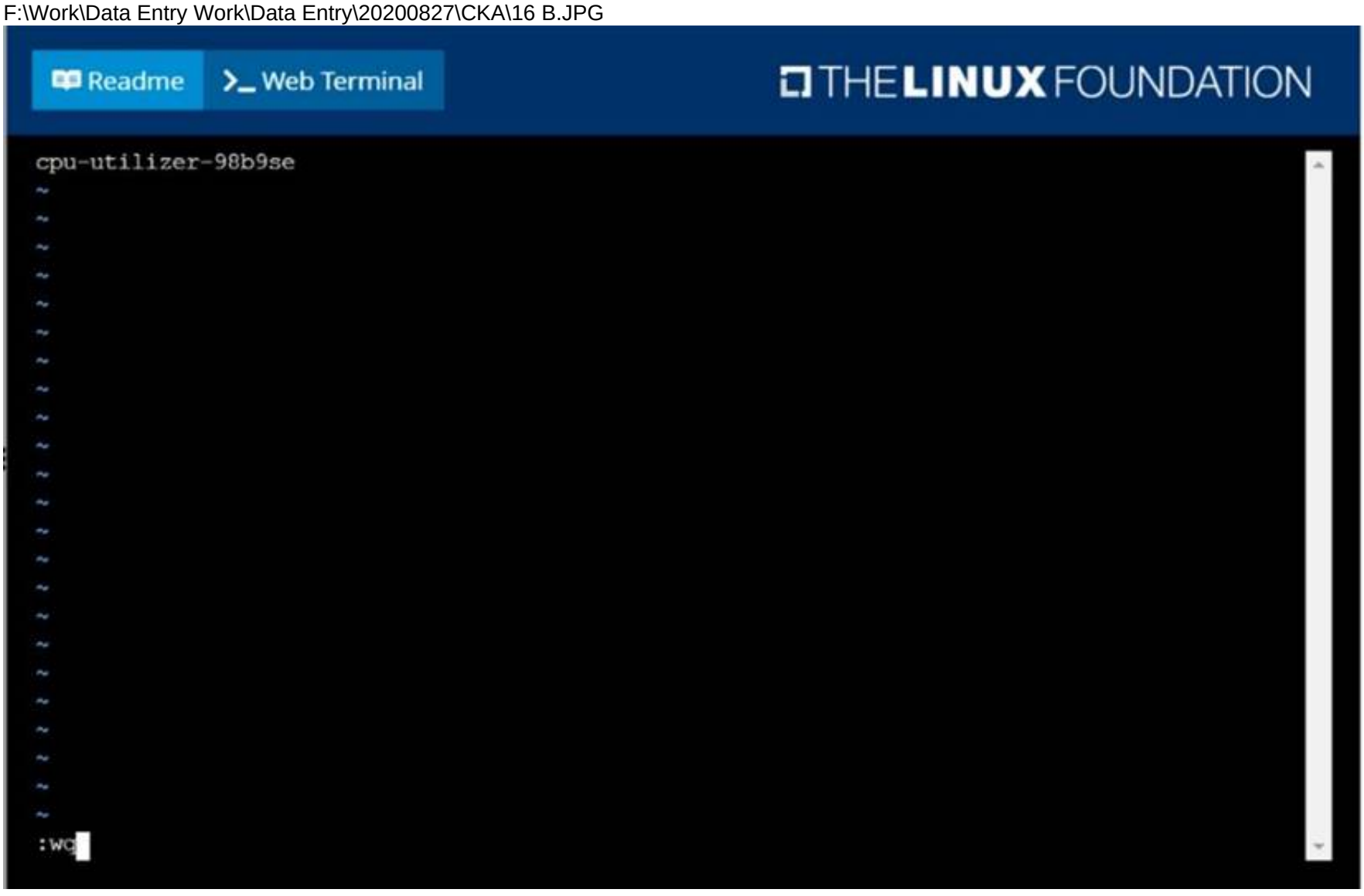

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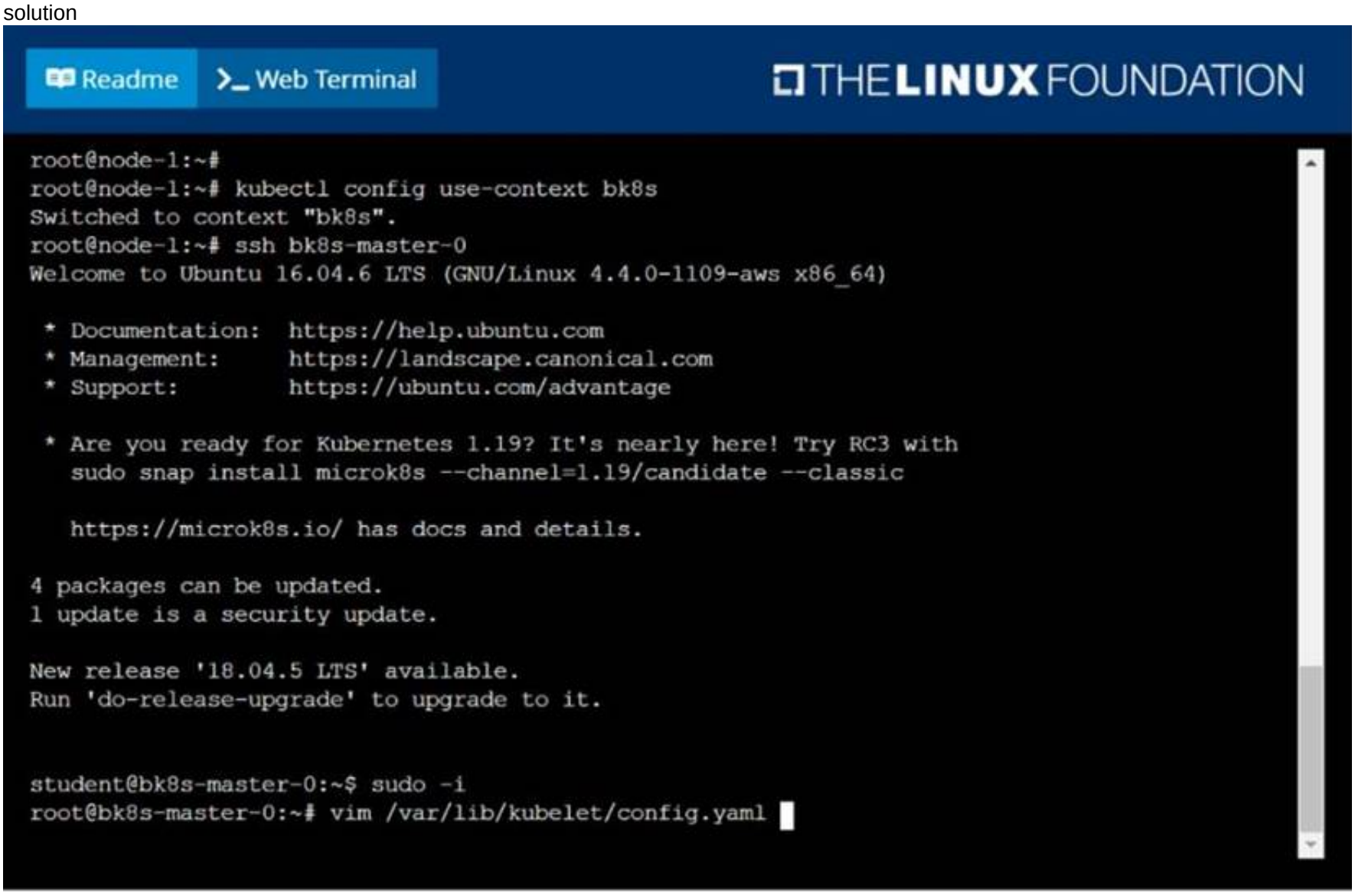
NEW QUESTION 10
CORRECT TEXT
Given a partially-functioning Kubernetes cluster, identify symptoms of failure on the cluster.
Determine the node, the failing service, and take actions to bring up the failed service and restore the health of the cluster. Ensure that any changes are made permanently.
You can ssh to the relevant I nodes (bk8s-master-0 or bk8s-node-0) using:
[student@node-1] $ ssh <nodename>
You can assume elevated privileges on any node in the cluster with the following command:
[student@nodename] $ | sudo –i

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution



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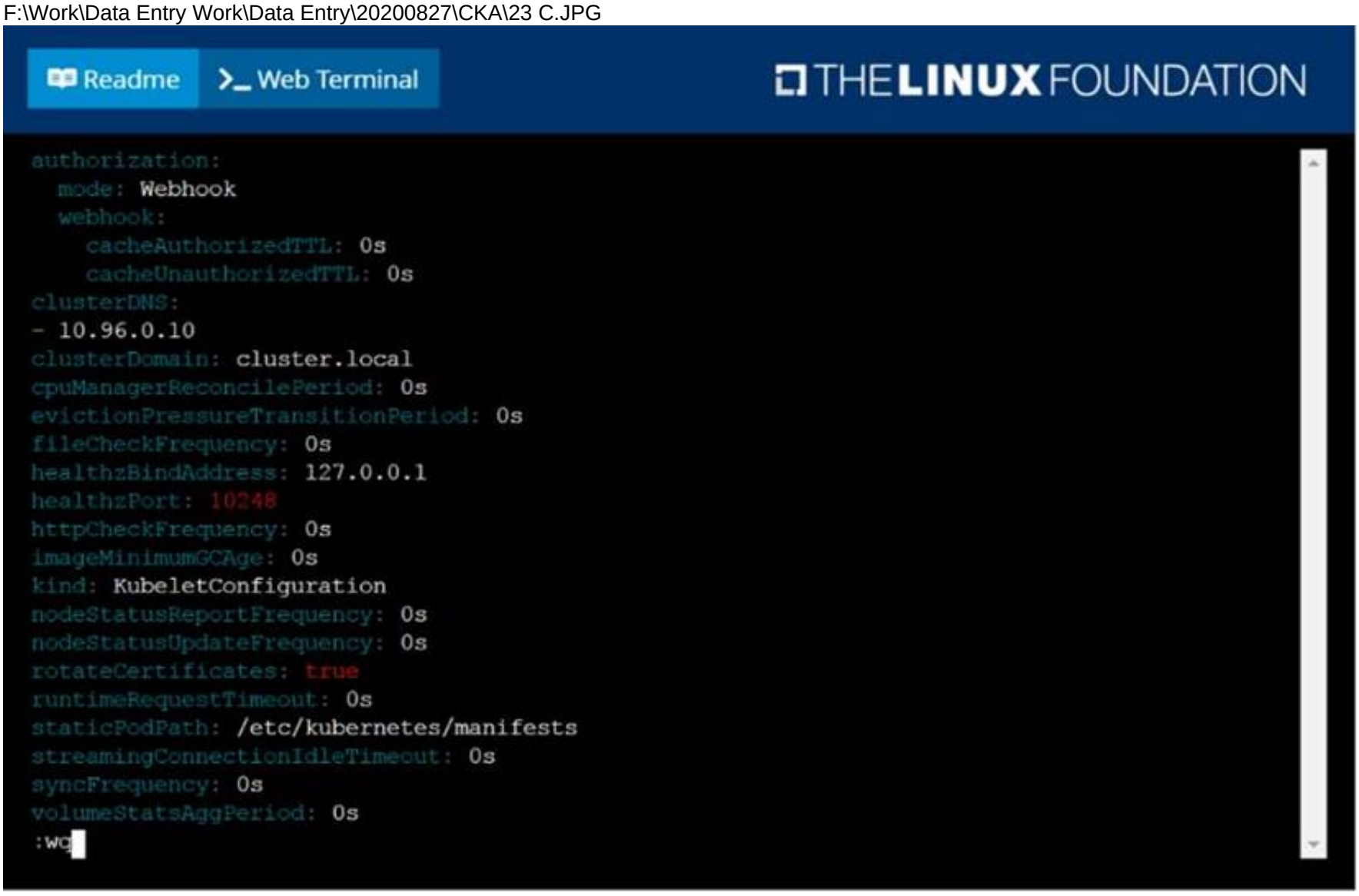

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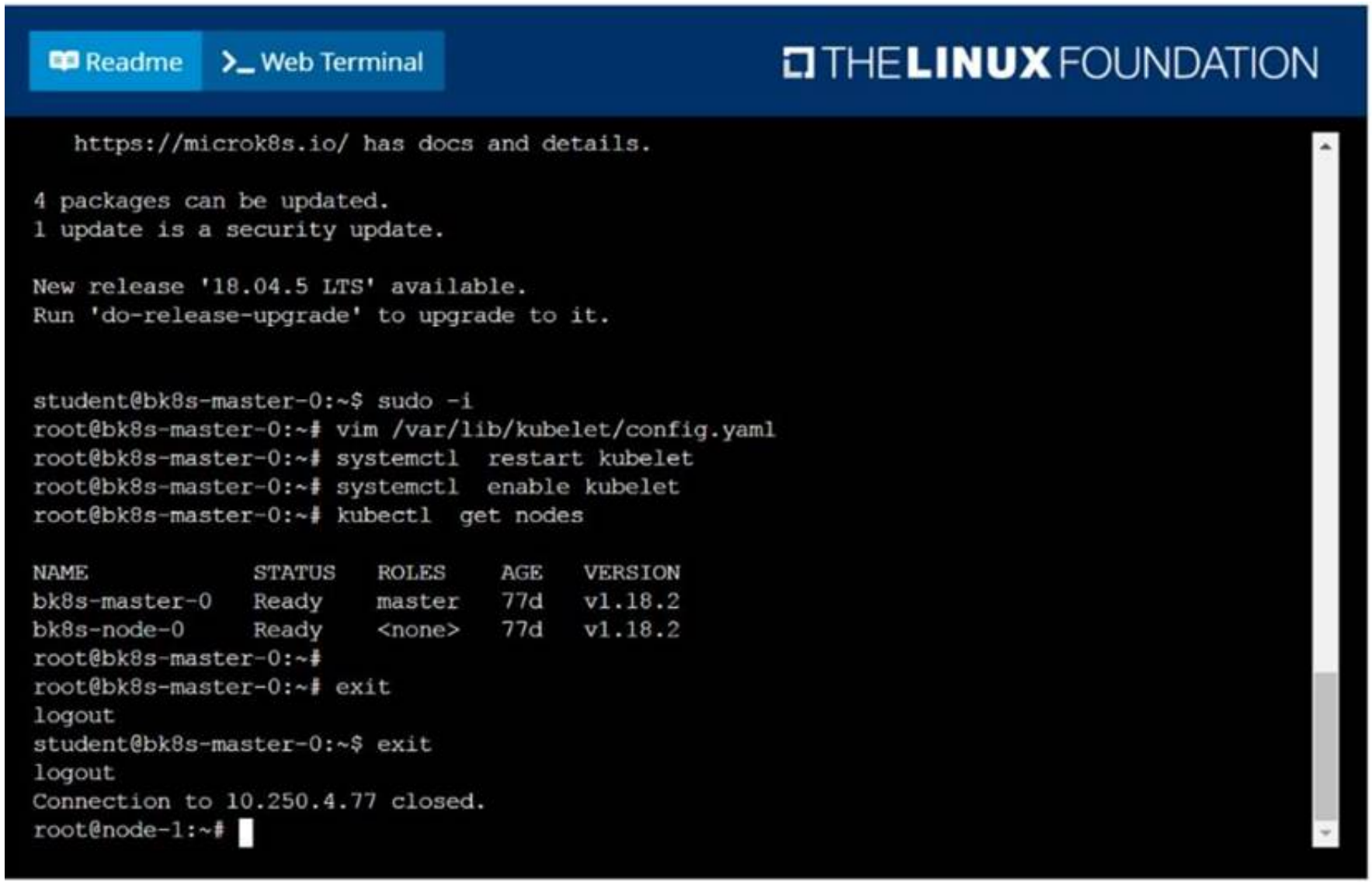

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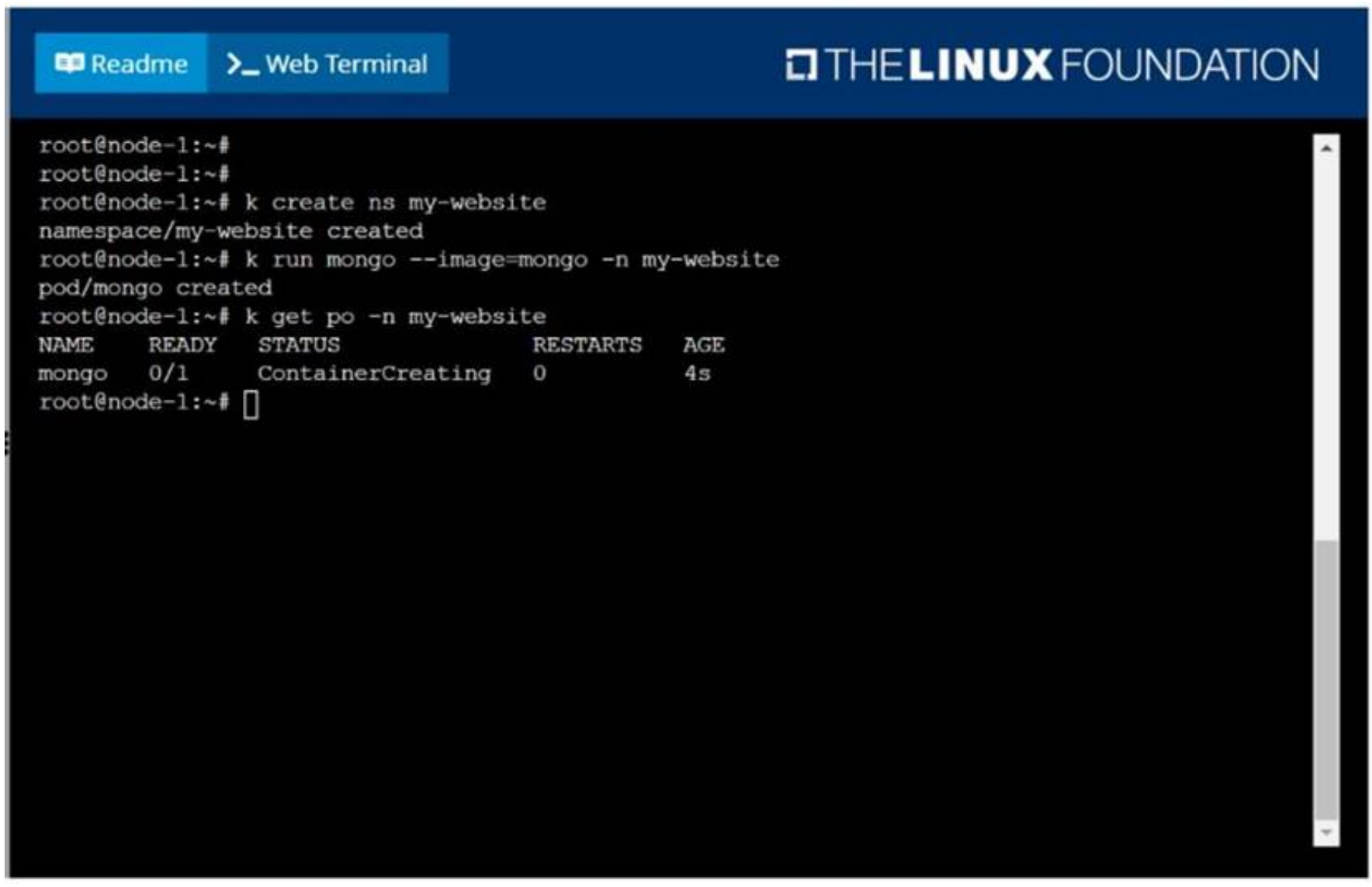
NEW QUESTION 10
CORRECT TEXT
Create a pod as follows:
? Name: mongo
? Using Image: mongo
? In a new Kubernetes namespace named: my-website

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution



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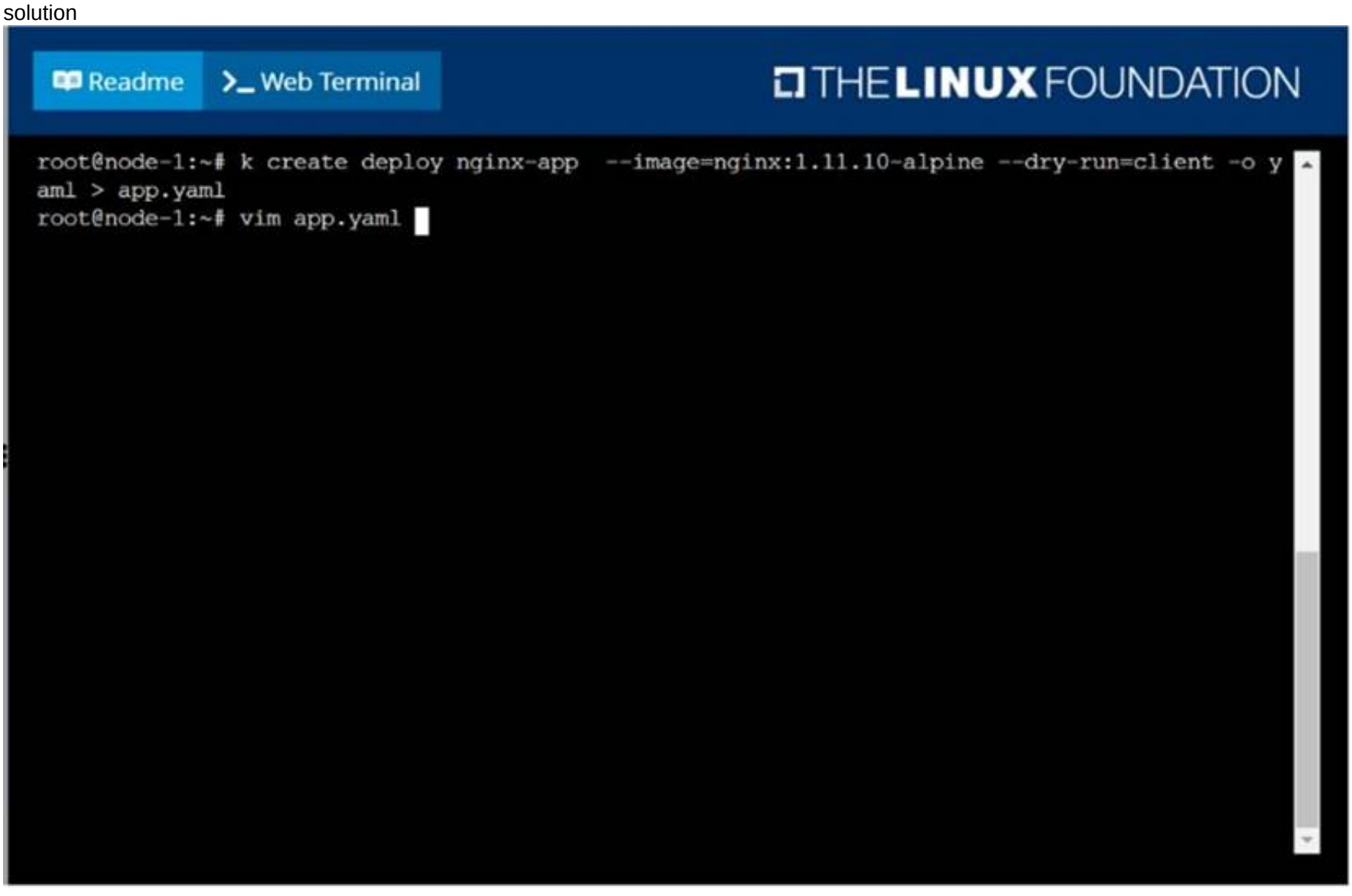
NEW QUESTION 13
CORRECT TEXT
Create a deployment as follows:
? Name: nginx-app
? Using container nginx with version 1.11.10-alpine
? The deployment should contain 3 replicas
Next, deploy the application with new version 1.11.13-alpine, by performing a rolling update.
Finally, rollback that update to the previous version 1.11.10-alpine.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution



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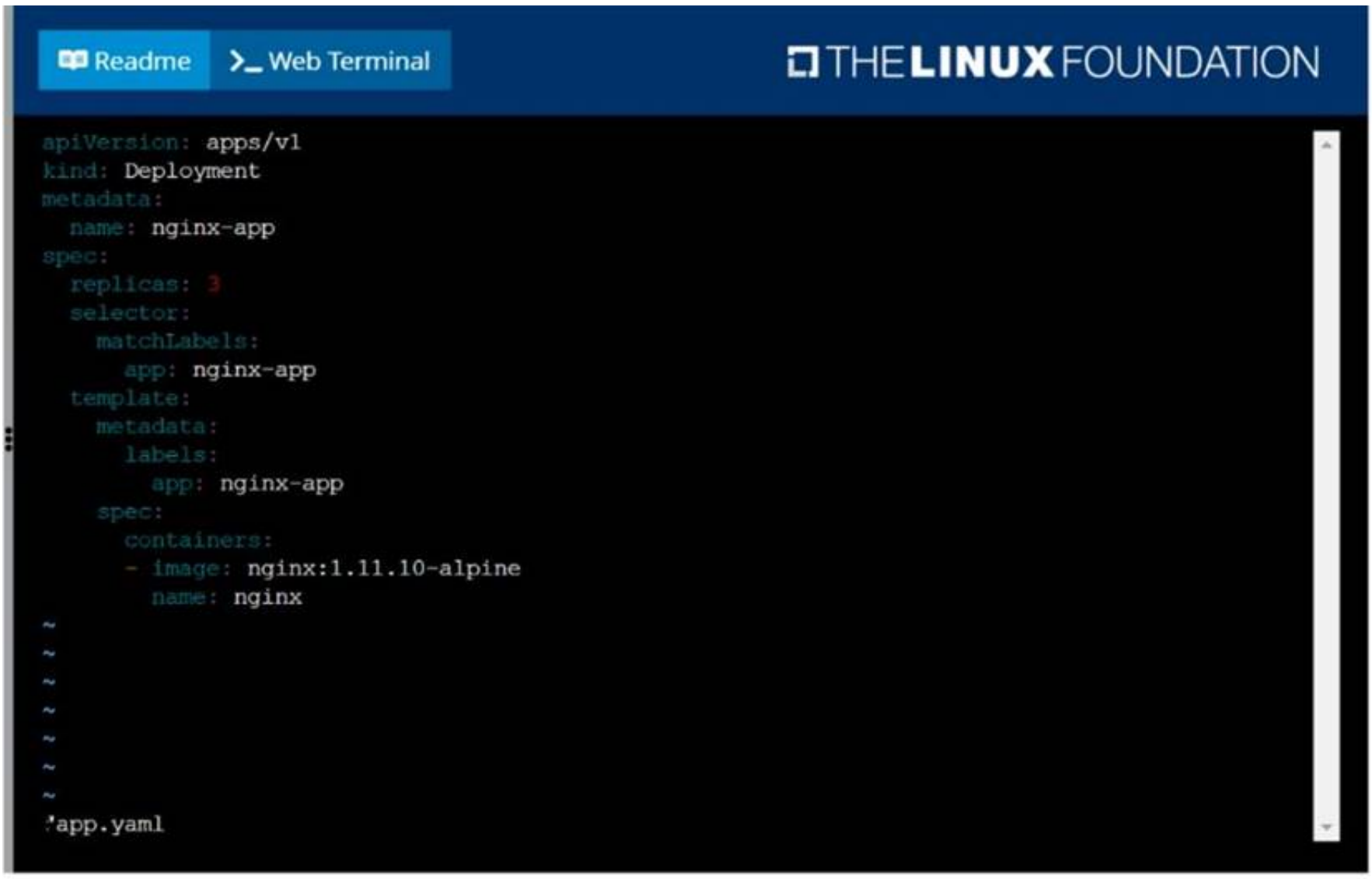

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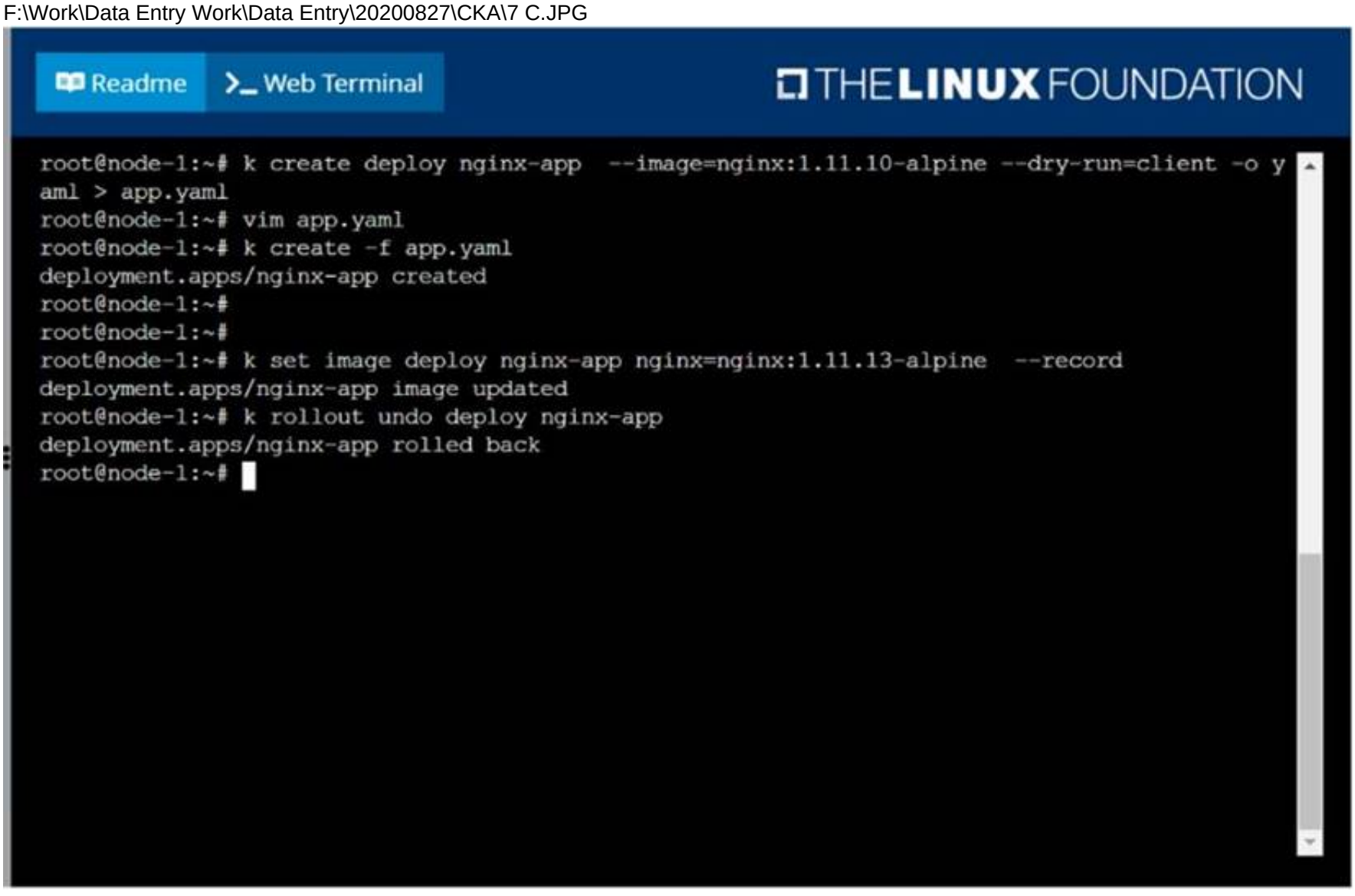

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NEW QUESTION 17
CORRECT TEXT
Get list of all the pods showing name and namespace with a jsonpath expression.

A. Mastered
B. Not Mastered

Answer: A

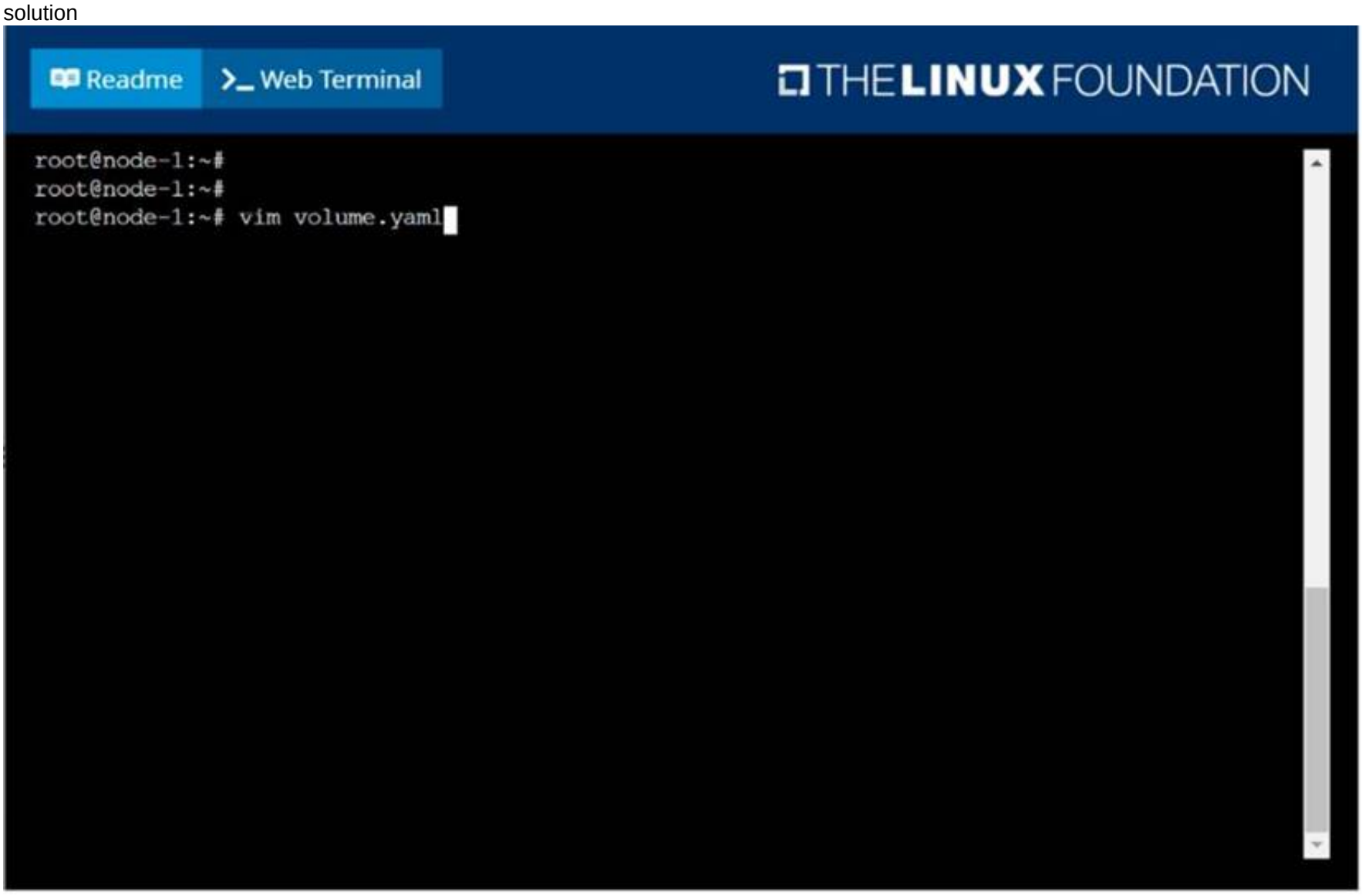
Explanation:
kubectl get pods -o=jsonpath="{.items[*]['metadata.name'
, 'metadata.namespace']}"

NEW QUESTION 19
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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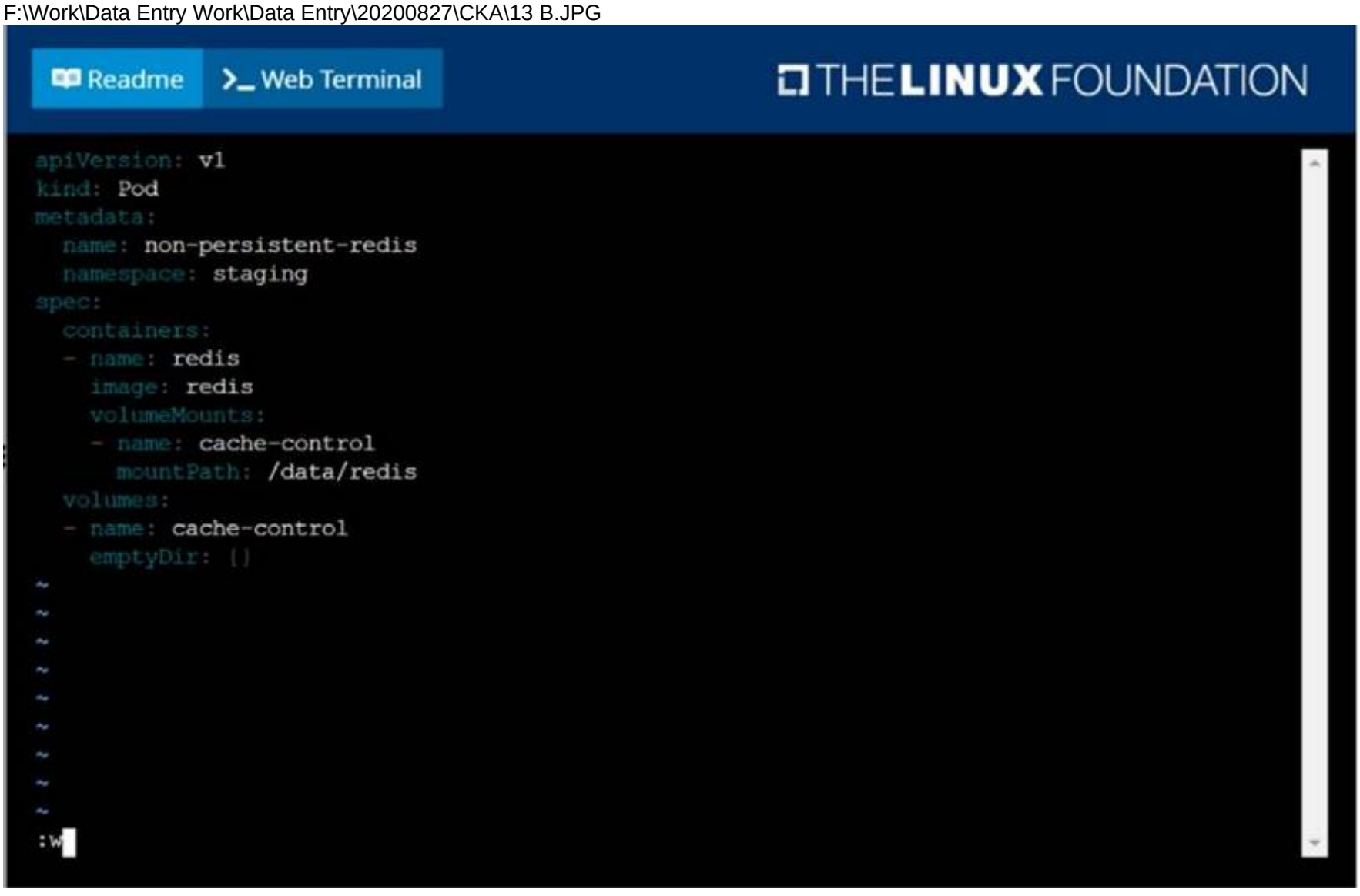

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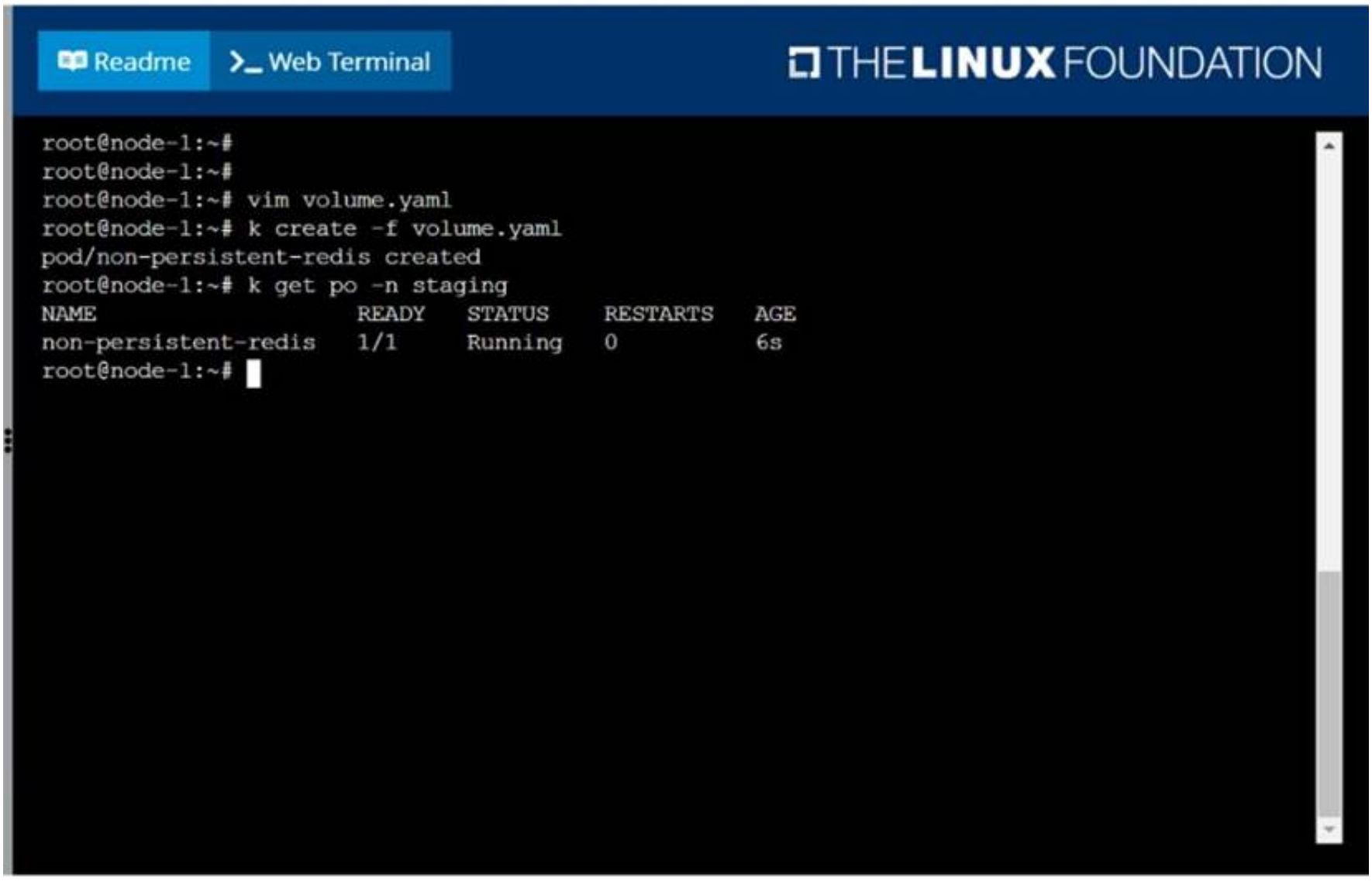

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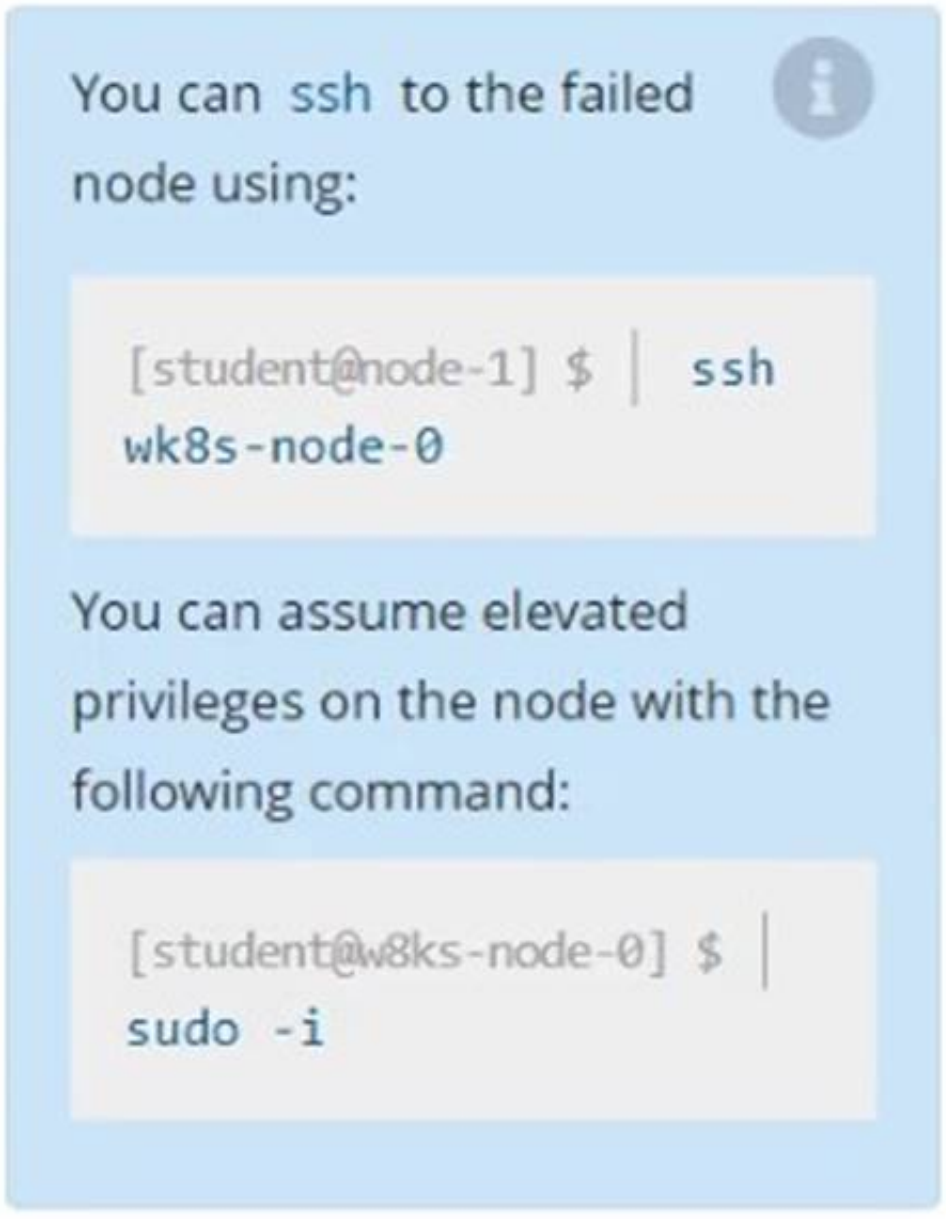
NEW QUESTION 21
CORRECT TEXT
Score: 13%

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 25
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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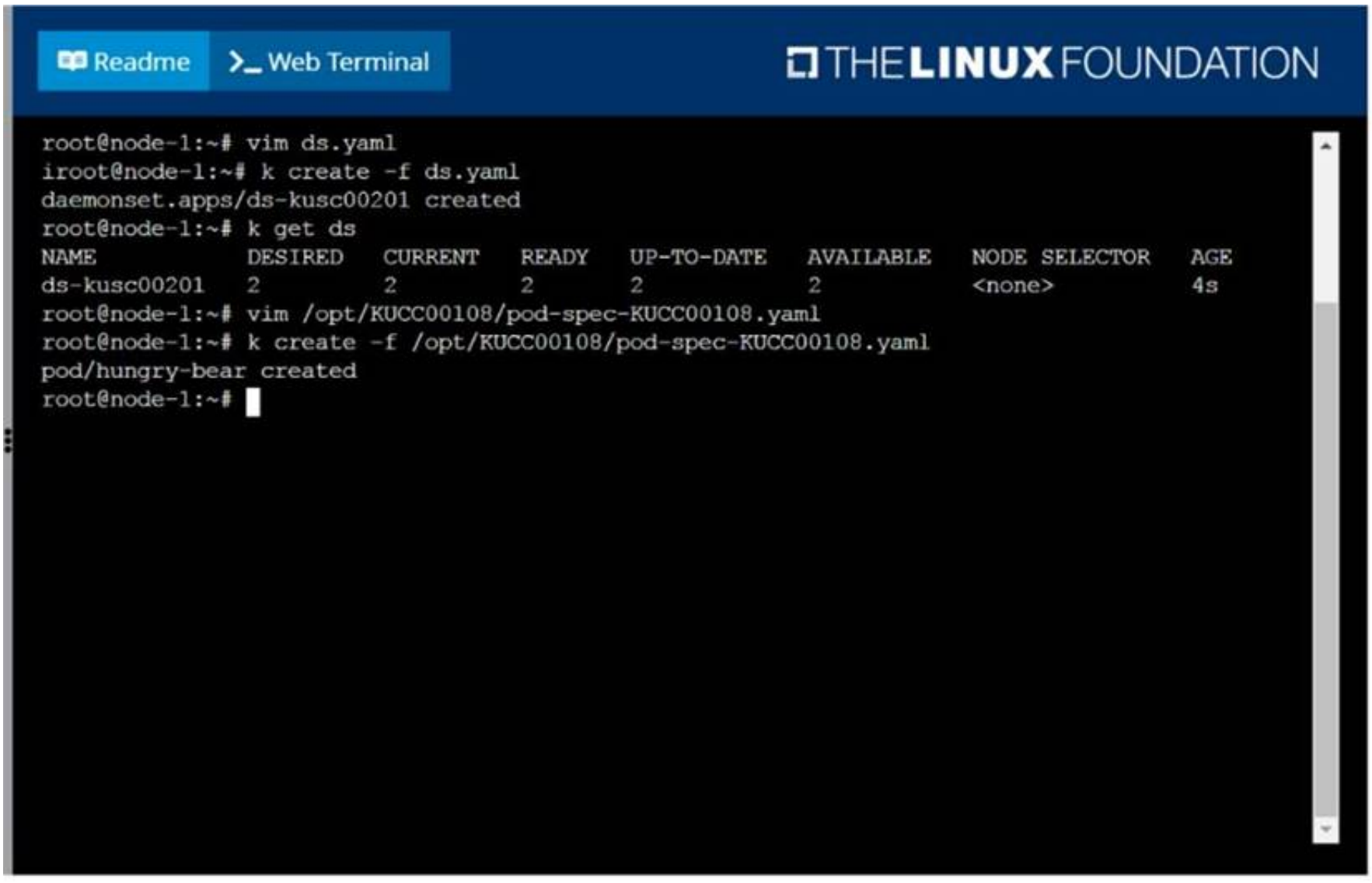

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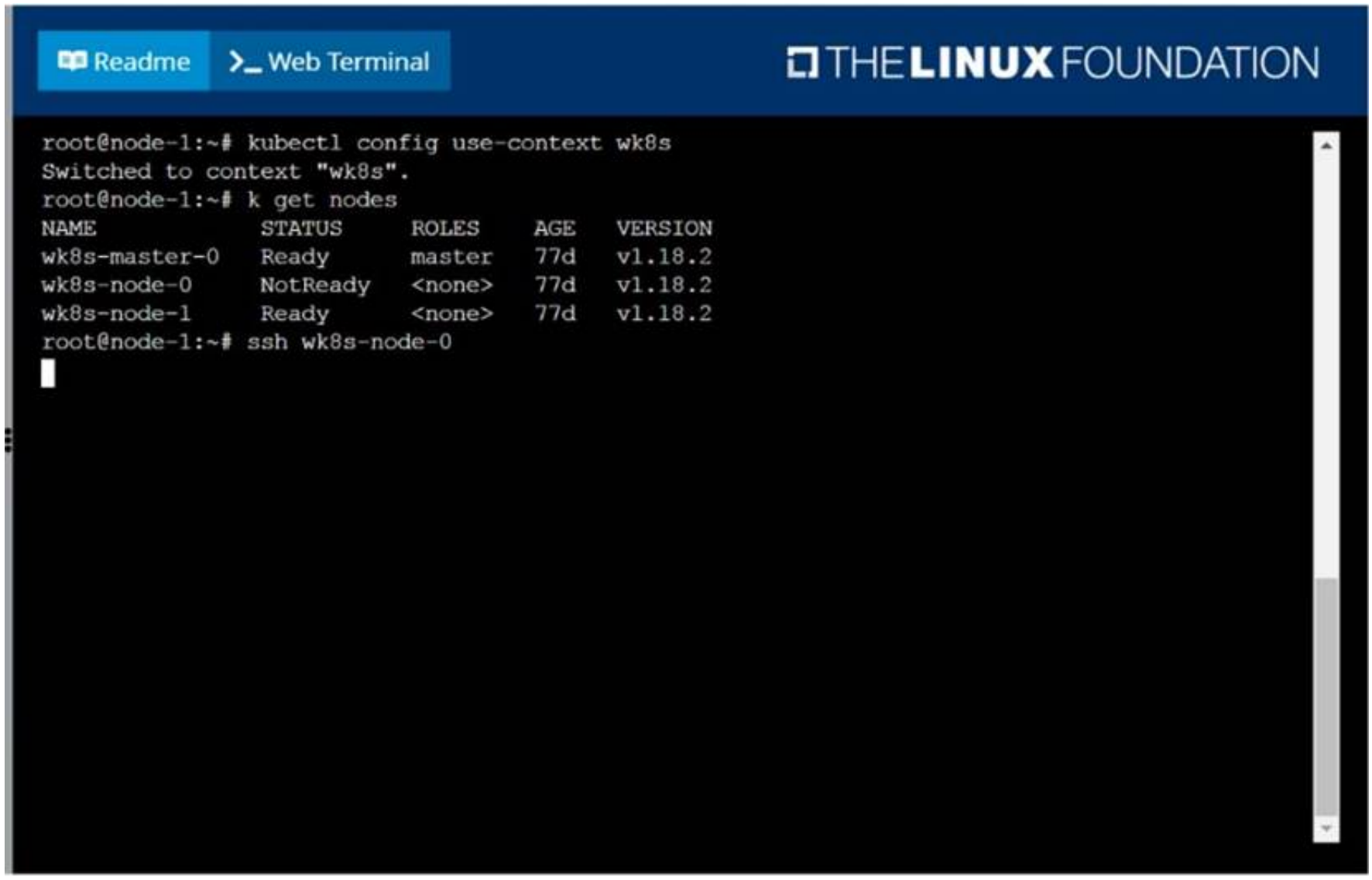
NEW QUESTION 26
CORRECT TEXT
A Kubernetes worker node, named wk8s-node-0 is in state NotReady. Investigate why this is the case, and perform any appropriate steps to bring the node to a Ready state, ensuring that any changes are made permanent.
You can ssh to the failed node using:
[student@node-1] $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



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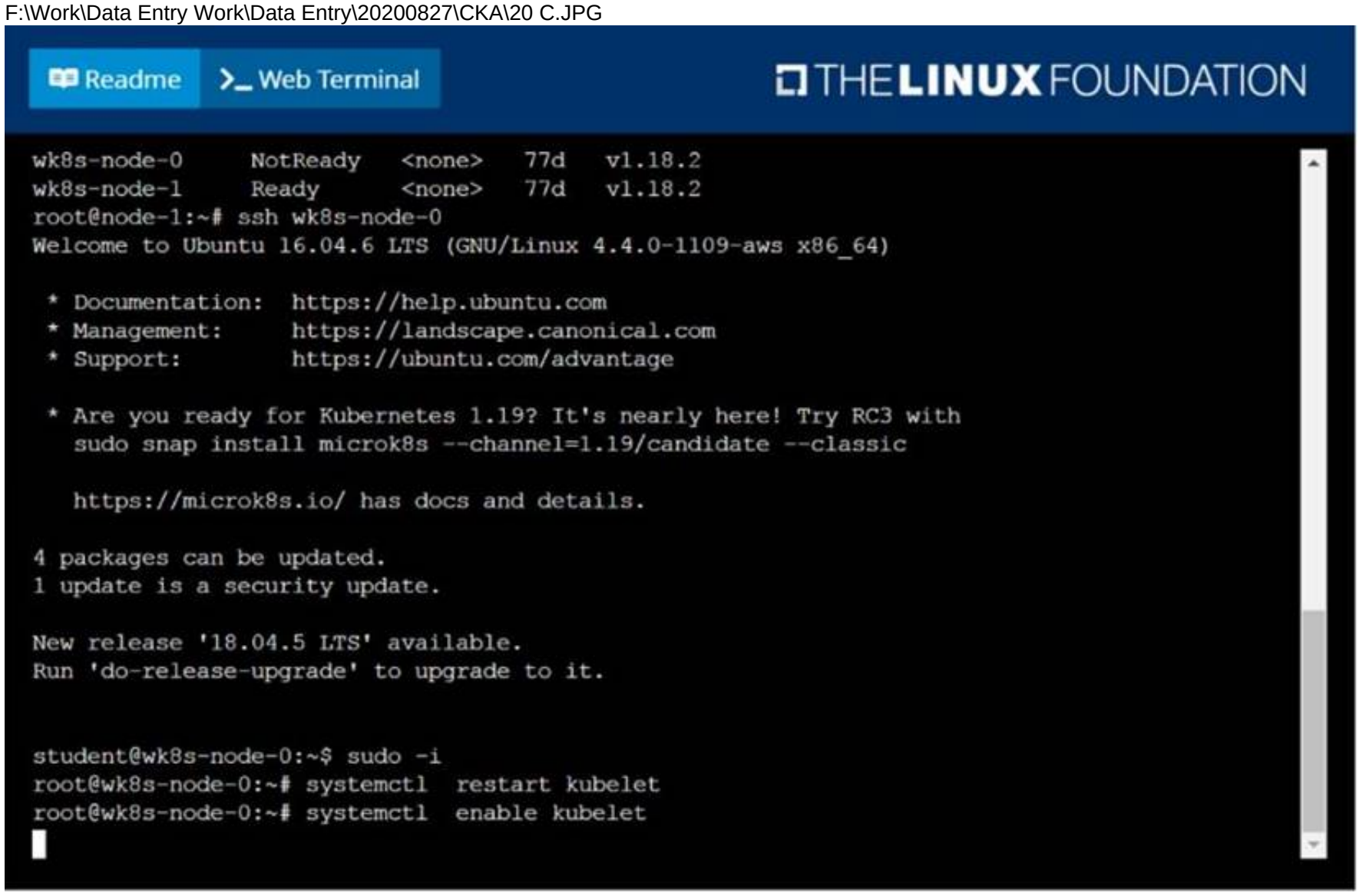

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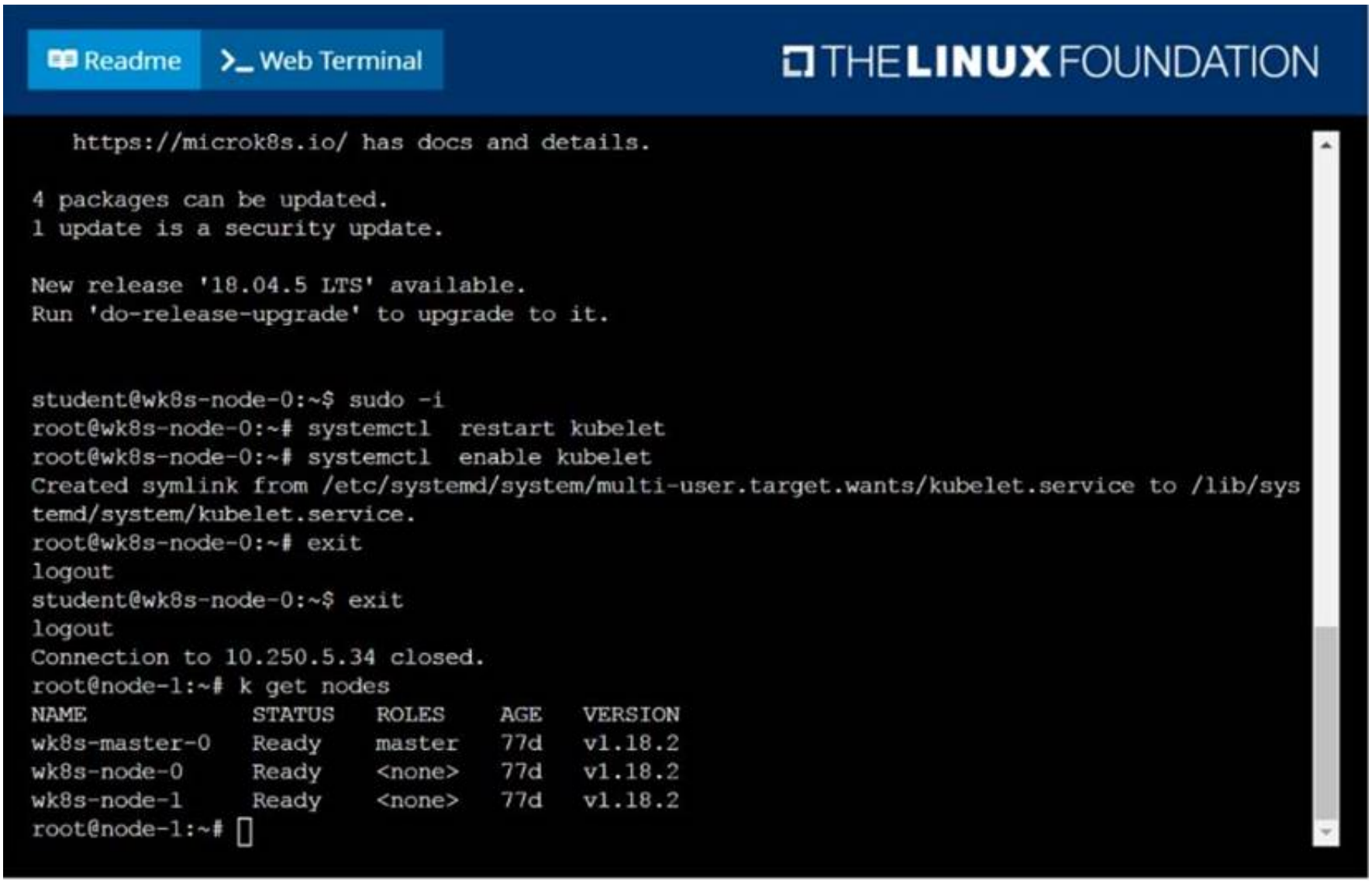

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NEW QUESTION 31
CORRECT TEXT
List all the pods sorted by name

A. Mastered
B. Not Mastered

Answer: A

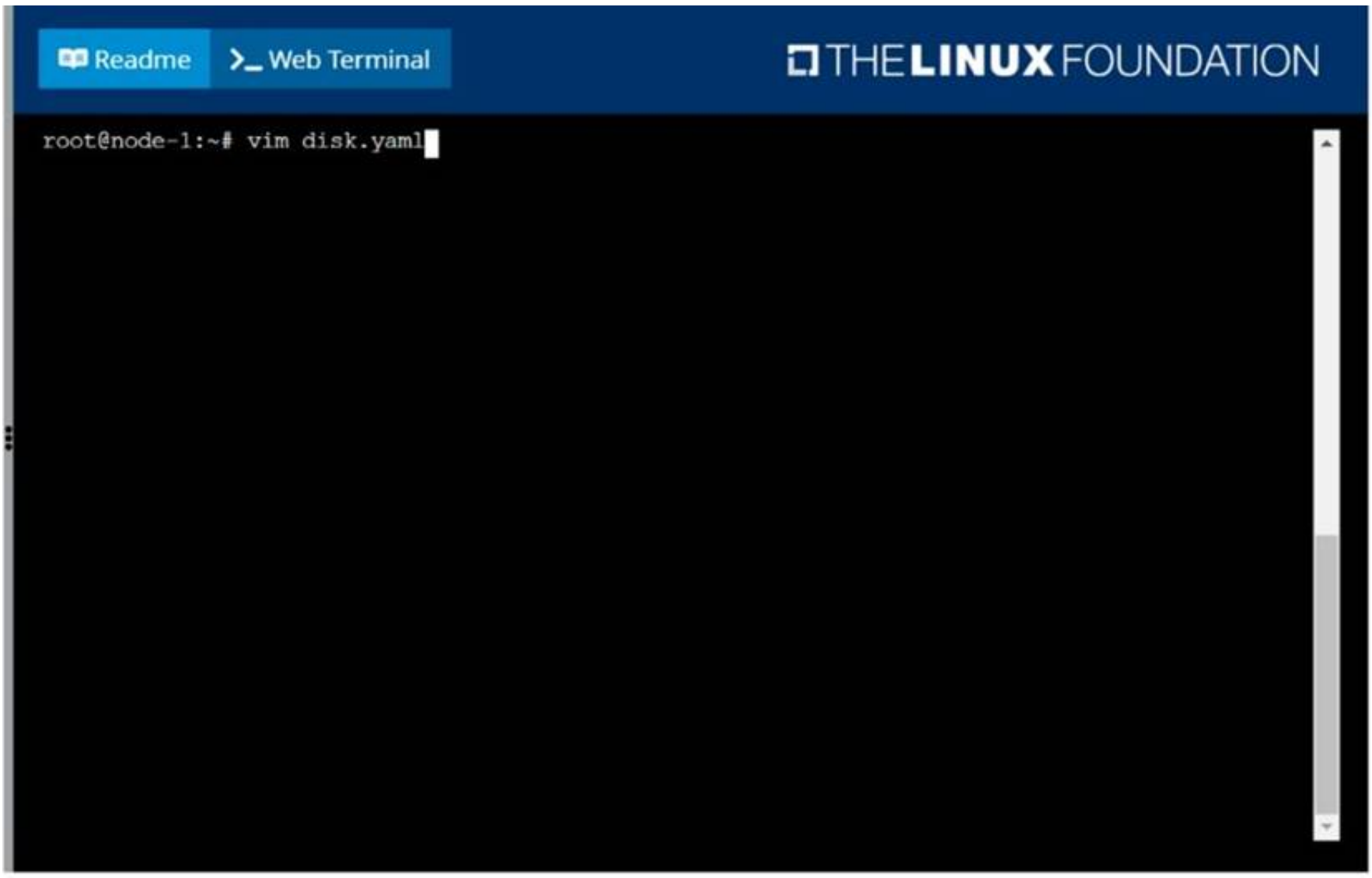
Explanation:
kubectl get pods --sort-by=.metadata.name

NEW QUESTION 33
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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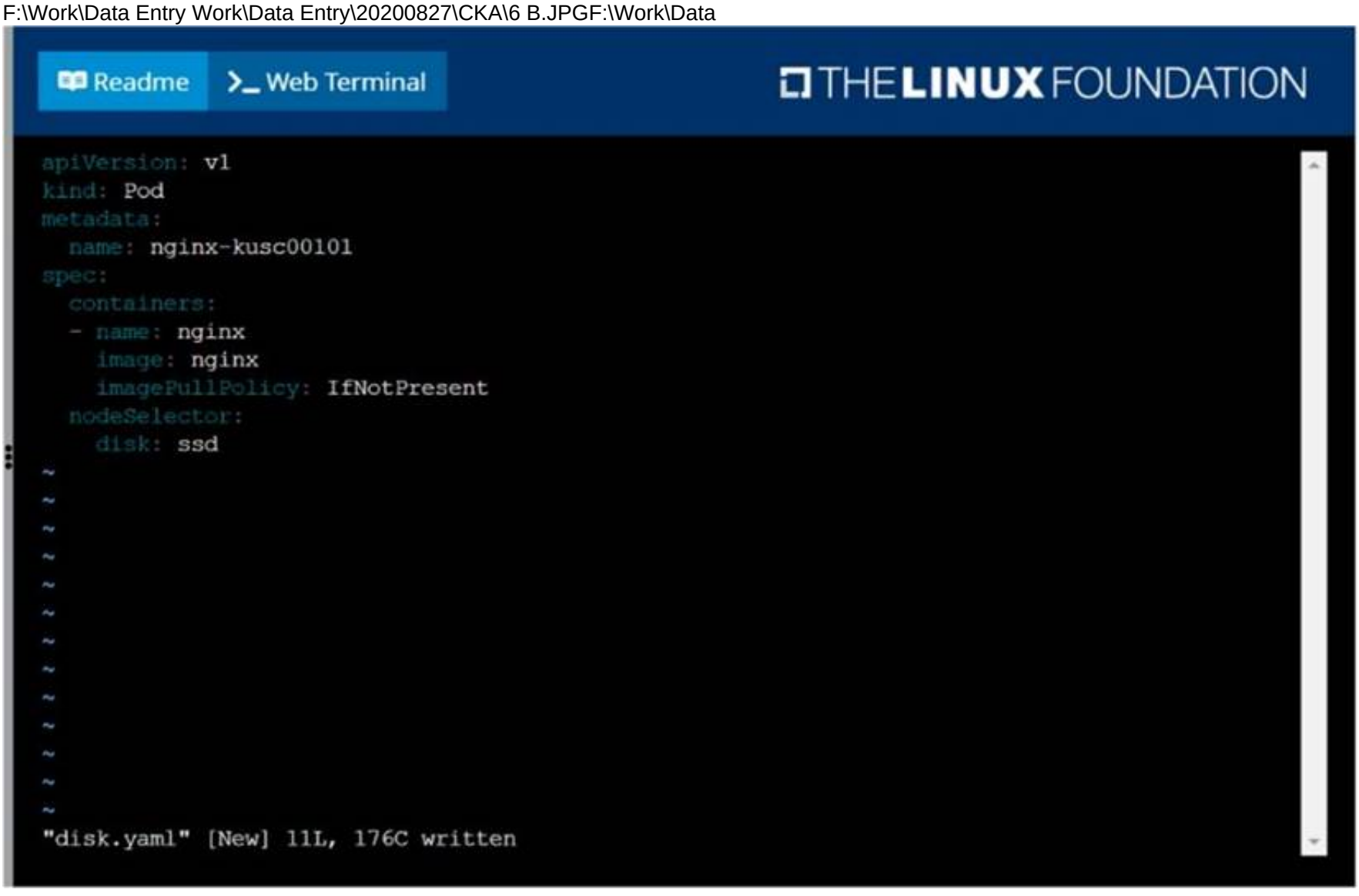

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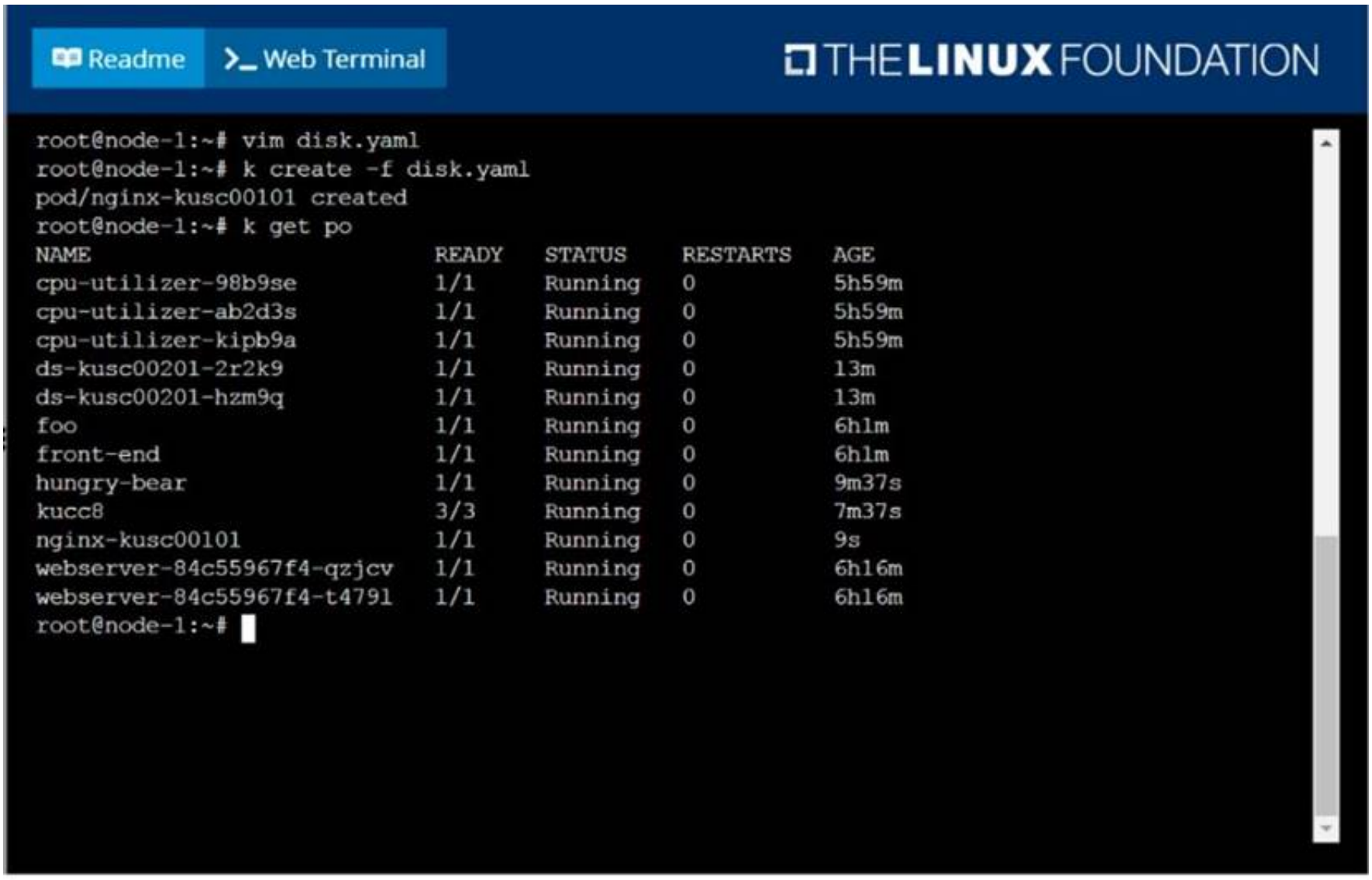

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NEW QUESTION 35
CORRECT TEXT
List the nginx pod with custom columns POD_NAME and POD_STATUS

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
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 39
.....

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