Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

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

NEW QUESTION 1
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 2
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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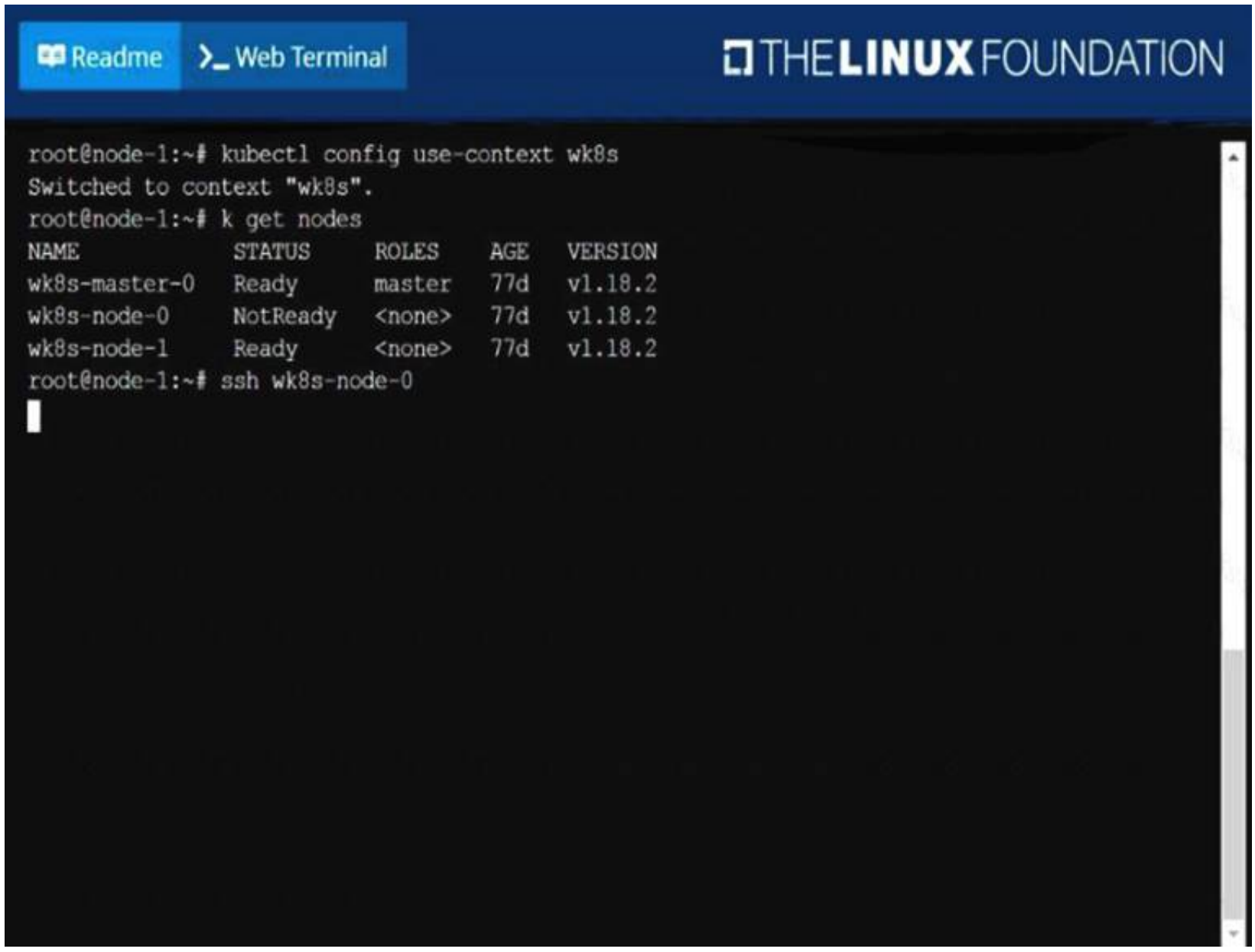

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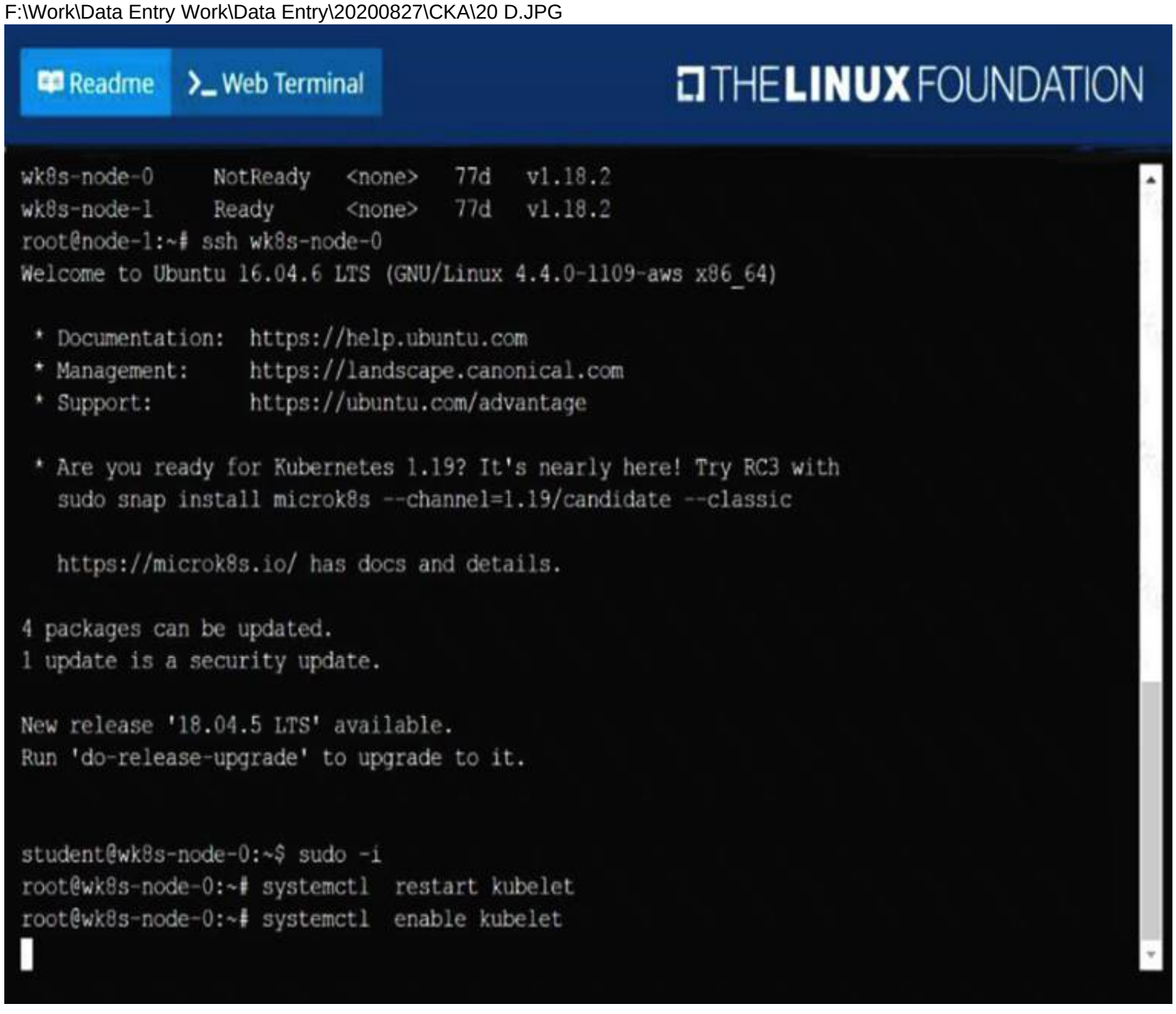

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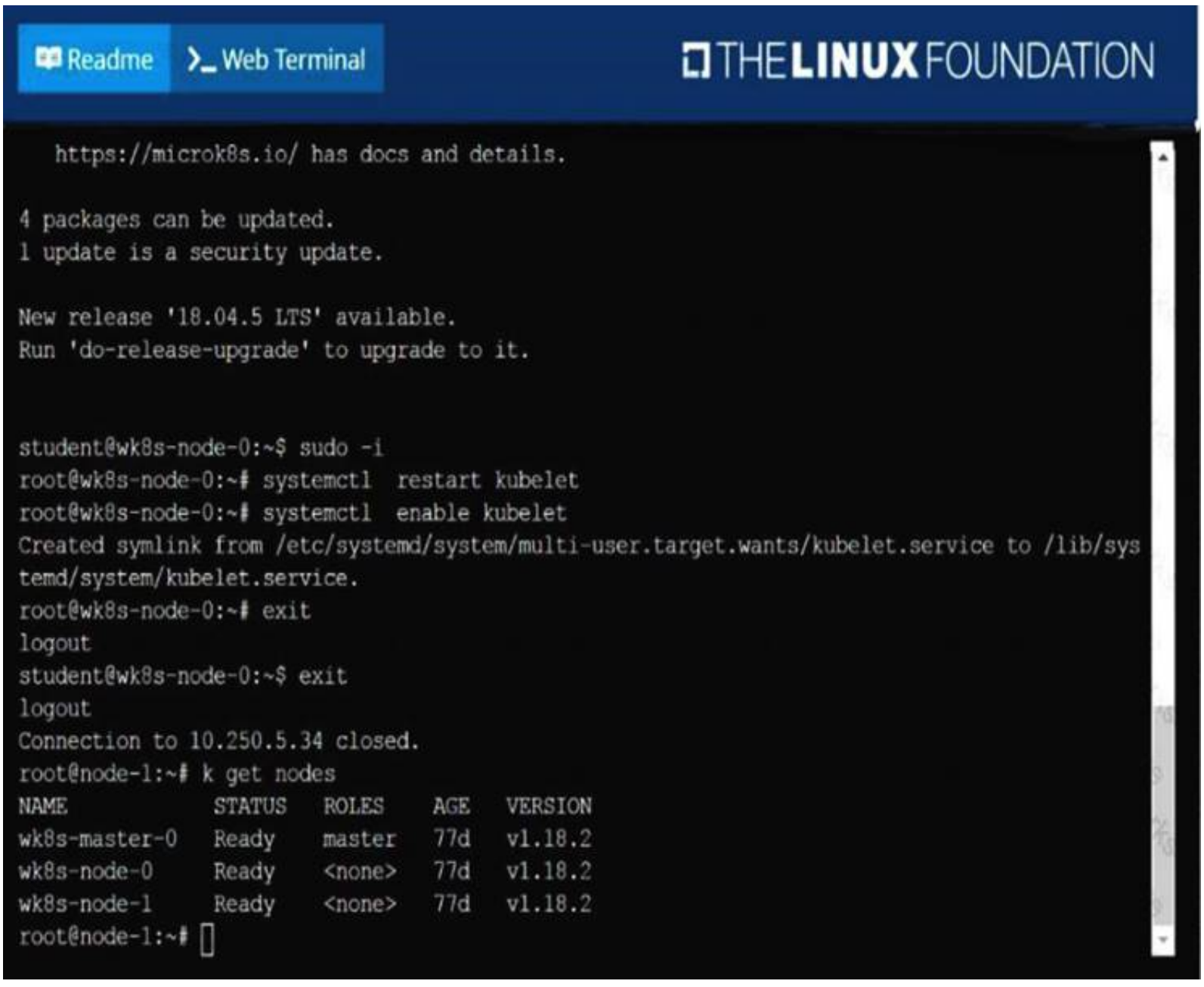

NEW QUESTION 3
List the nginx pod with custom columns POD_NAME and POD_STATUS

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 4
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 5
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 6
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 7
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 8
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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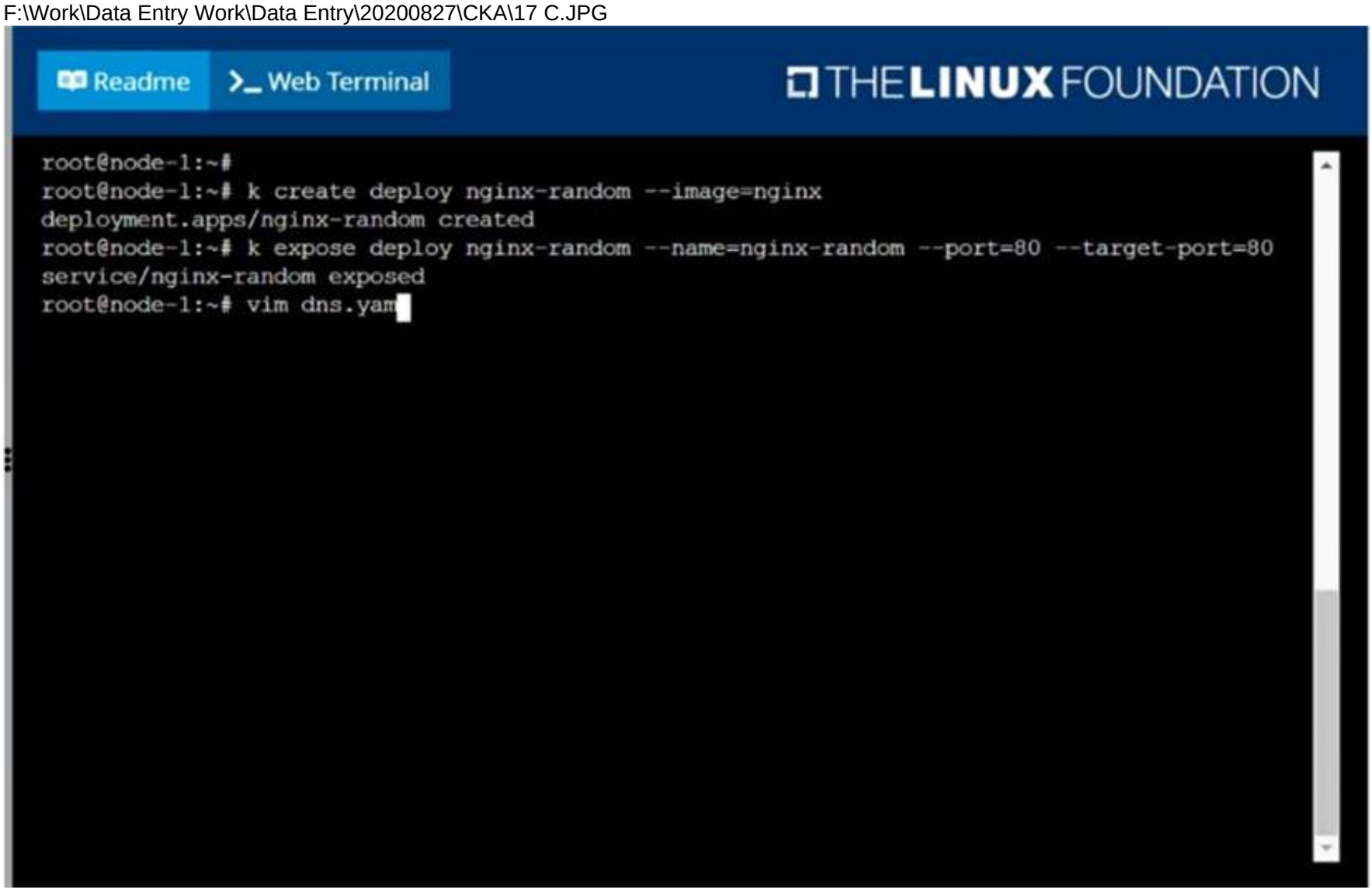

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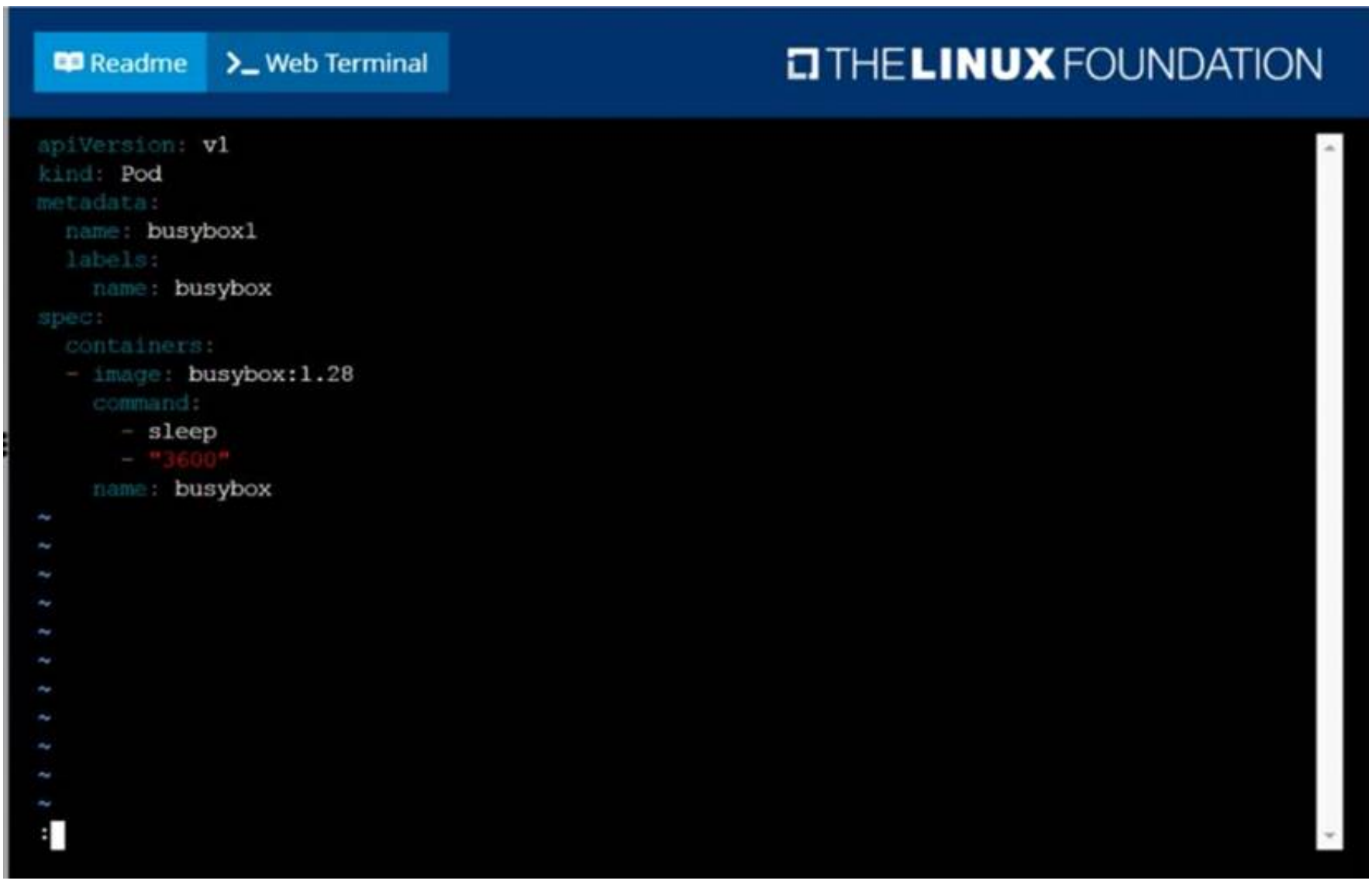

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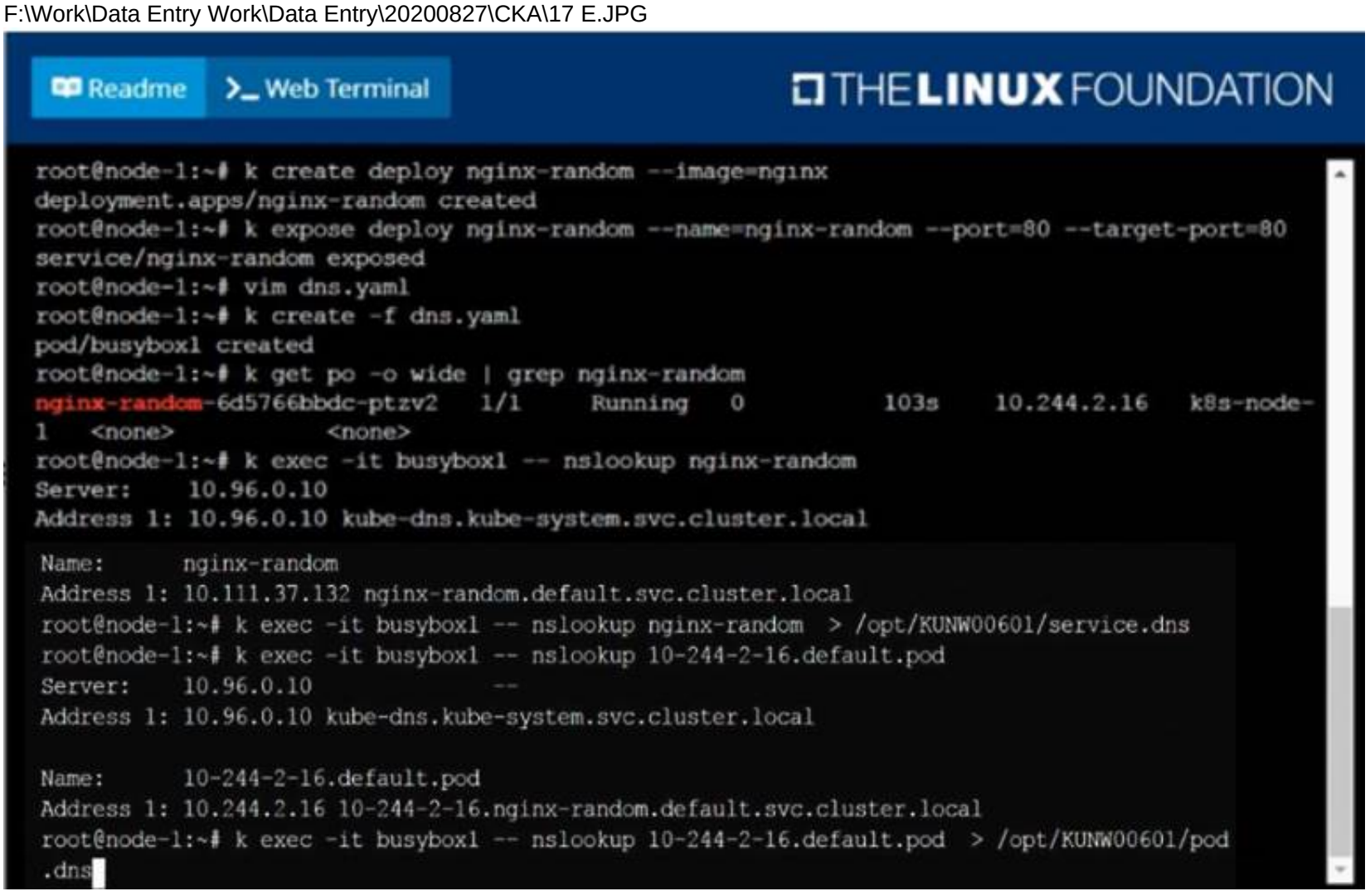

NEW QUESTION 9
Create a busybox pod that runs the command “env” and save the output to “envpod” file

A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 10
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 10
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 14
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 16
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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Readme | Web Terminal — THE LINUX FOUNDATION

```
root@node-1:~#
root@node-1:~# kubectl config use-context wk8s
Switched to context "wk8s".
root@node-1:~# ssh wk8s-node-1
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-1:~$ sudo -i
root@wk8s-node-1:~# vim /var/lib/kubelet/config.yaml
```

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Readme | Web Terminal — THE LINUX FOUNDATION

```
    clientCAFile: /etc/kubernetes/pki/ca.crt
authorization:
  mode: Webhook
  webhook:
    cacheAuthorizedTTL: 0s
    cacheUnauthorizedTTL: 0s
clusterDNS:
- 10.96.0.10
clusterDomain: cluster.local
cpuManagerReconcilePeriod: 0s
evictionPressureTransitionPeriod: 0s
fileCheckFrequency: 0s
healthzBindAddress: 127.0.0.1
healthzPort: 10248
httpCheckFrequency: 0s
imageMinimumGCAge: 0s
kind: KubeletConfiguration
nodeStatusReportFrequency: 0s
nodeStatusUpdateFrequency: 0s
rotateCertificates: true
runtimeRequestTimeout: 0s
staticPodPath: /etc/kubernetes/manifests
streamingConnectionIdleTimeout: 0s
syncFrequency: 0s
:wq
```

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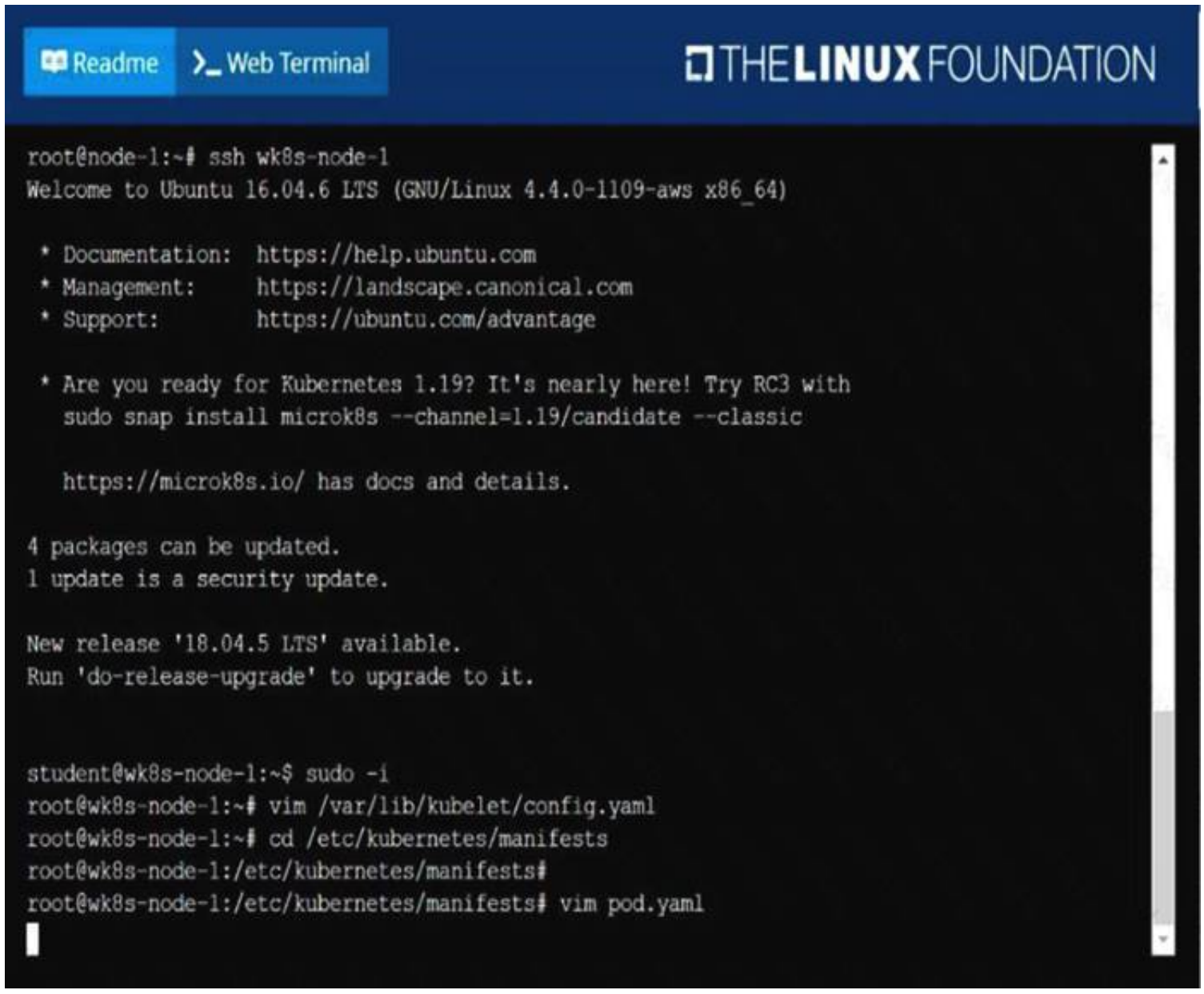

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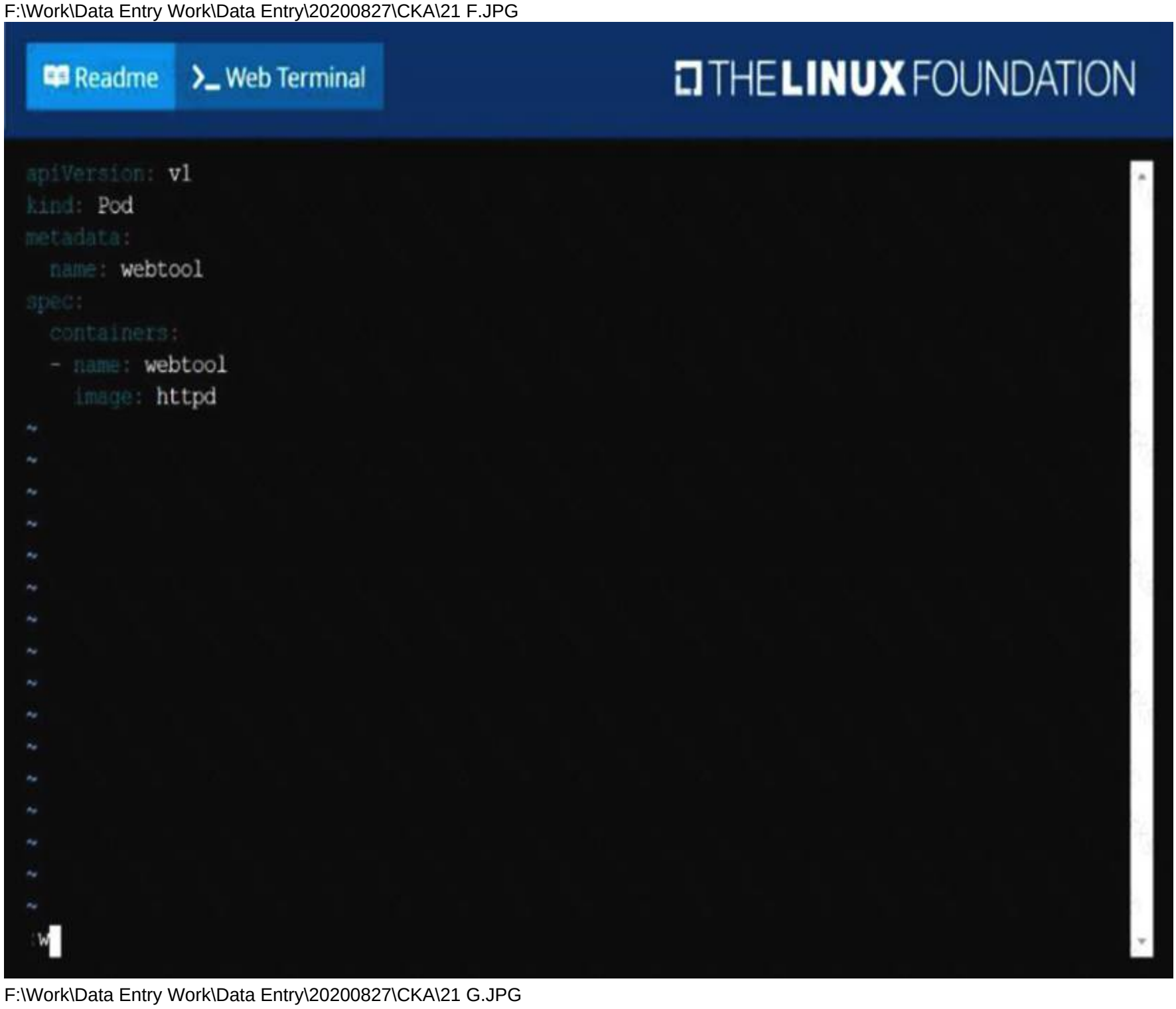

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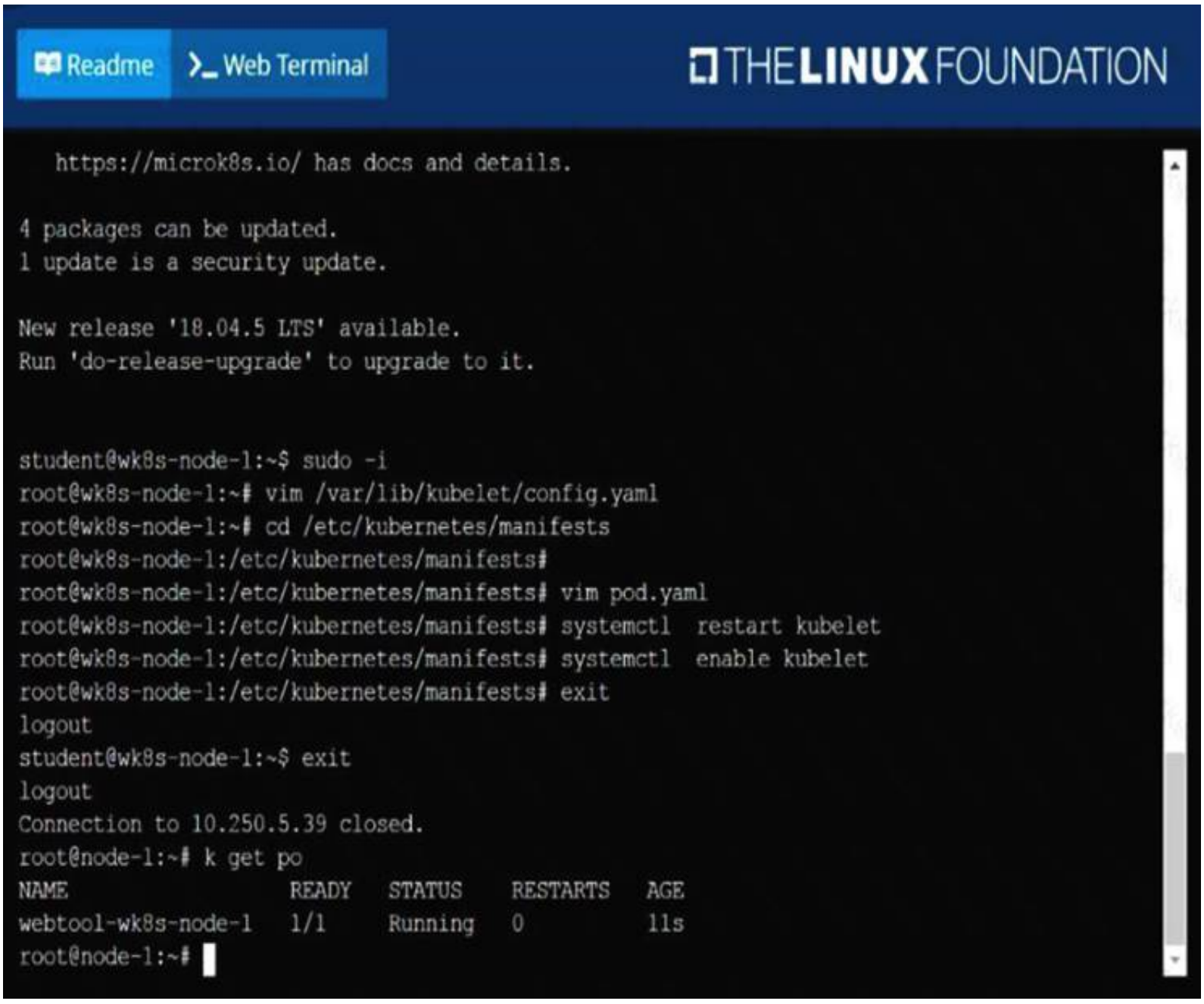

NEW QUESTION 17
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