

CKA Dumps

Certified Kubernetes Administrator (CKA) Program

<https://www.certleader.com/CKA-dumps.html>



NEW QUESTION 1

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 2

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 3

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 -nengineering -f ?C
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 4

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 5

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 6

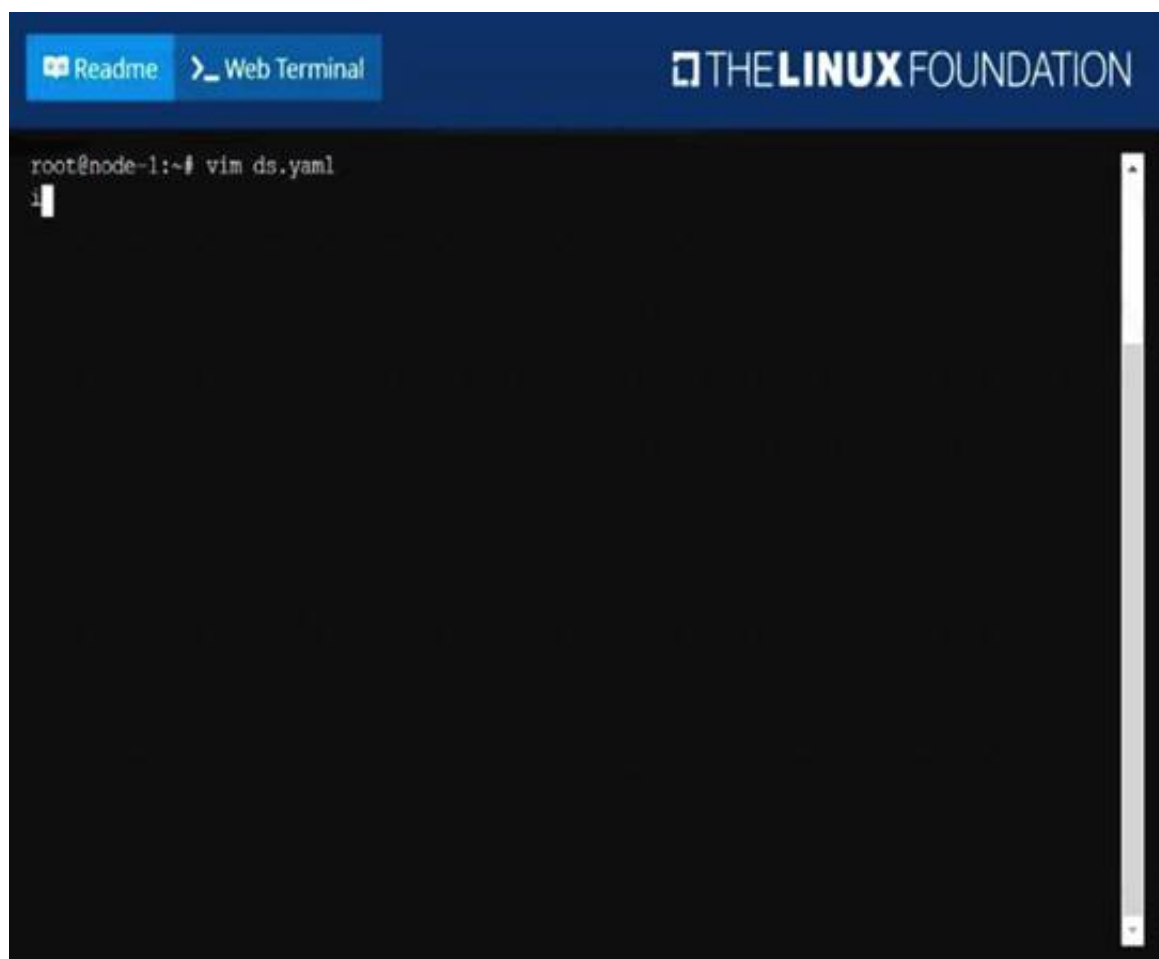
Ensure a single instance of podnginxis running on each node of theKubernetes cluster wherenginxalso represents the Image name whichhas to be used. Do not override anytaints currently in place.
UseDaemonSetto complete thistask and useds-kusc00201asDaemonSet name.

- A. Mastered
- B. Not Mastered

Answer: A

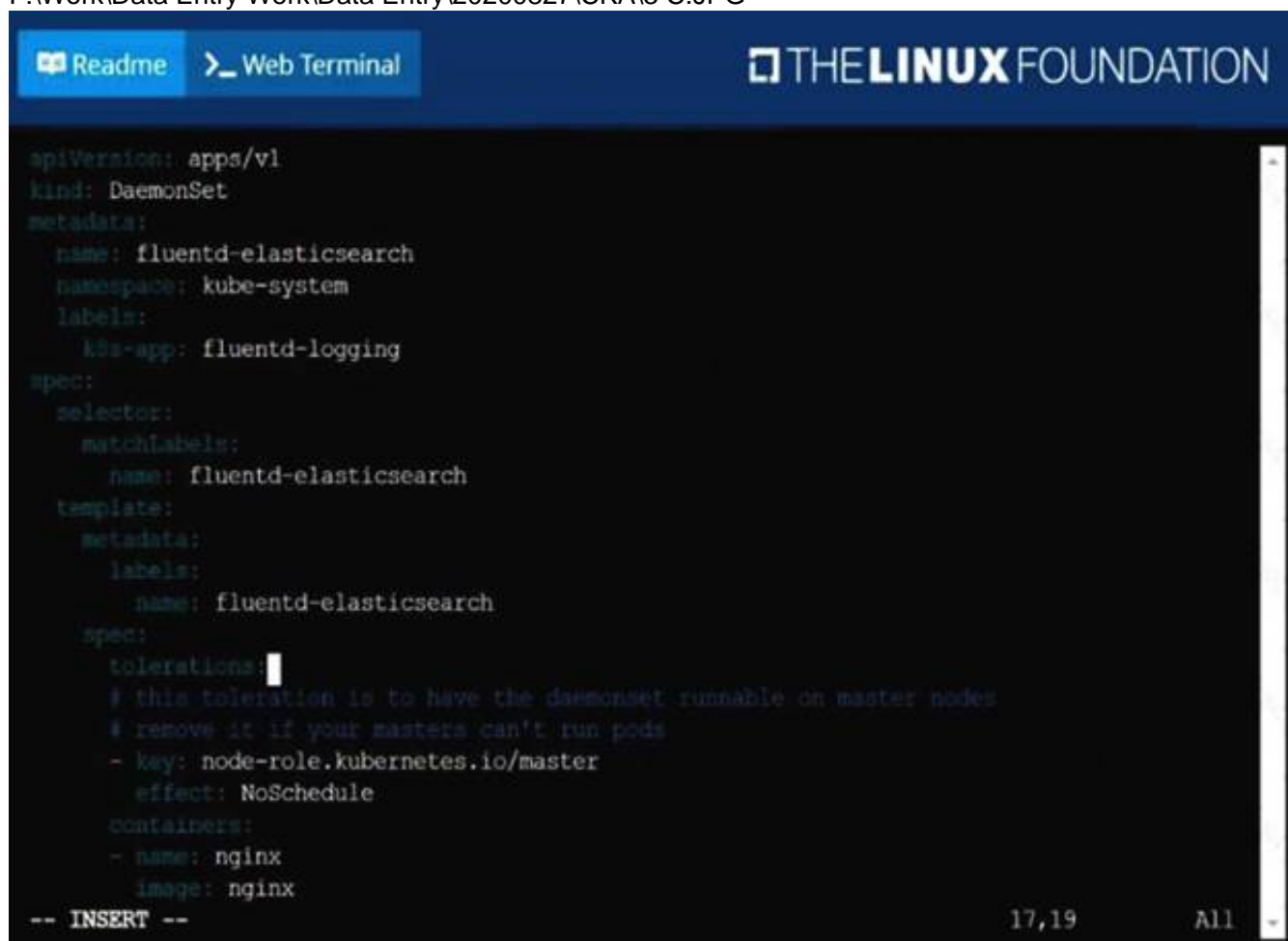
Explanation:

solution
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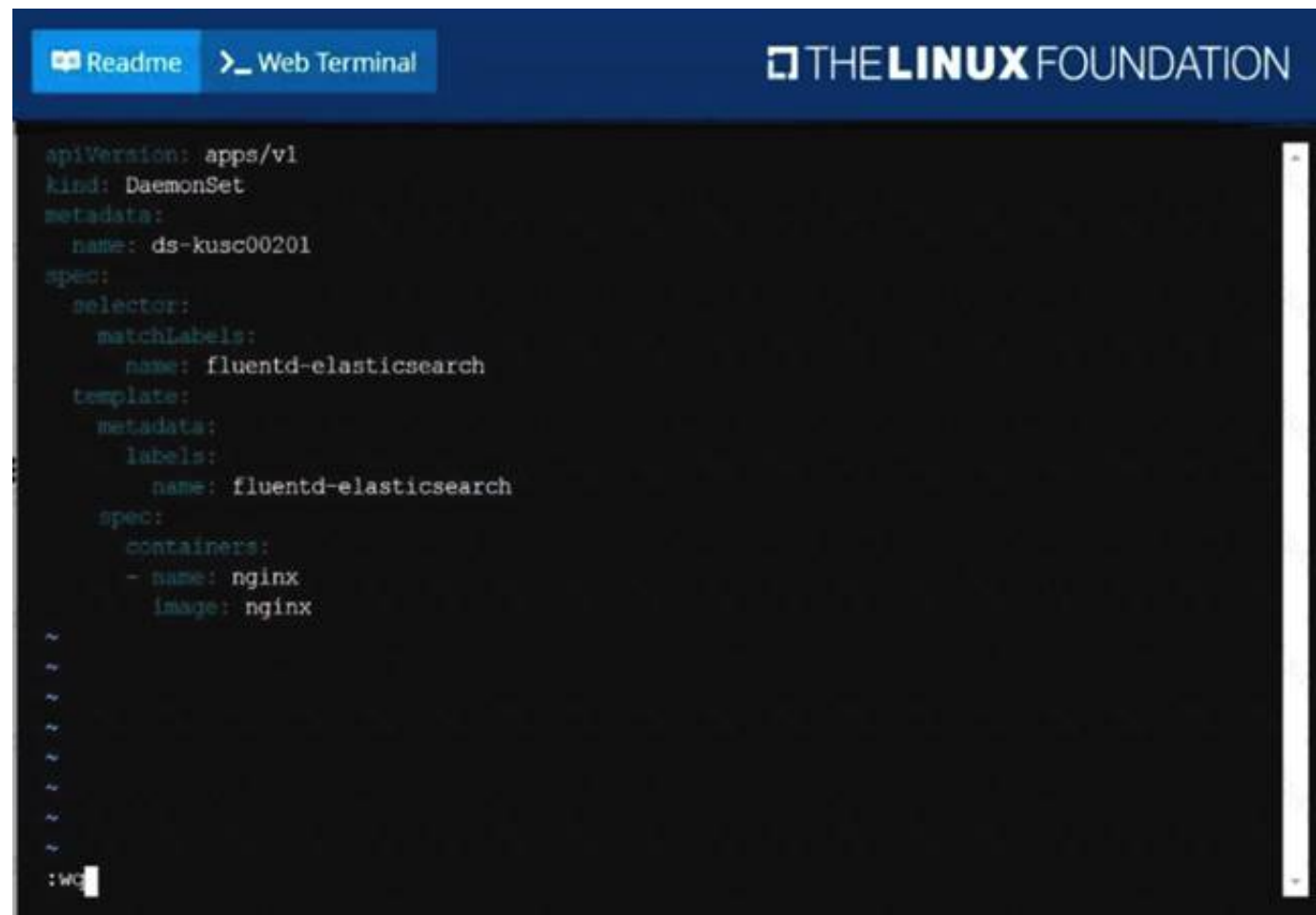
```
root@node-1:~# vim ds.yaml
1
```

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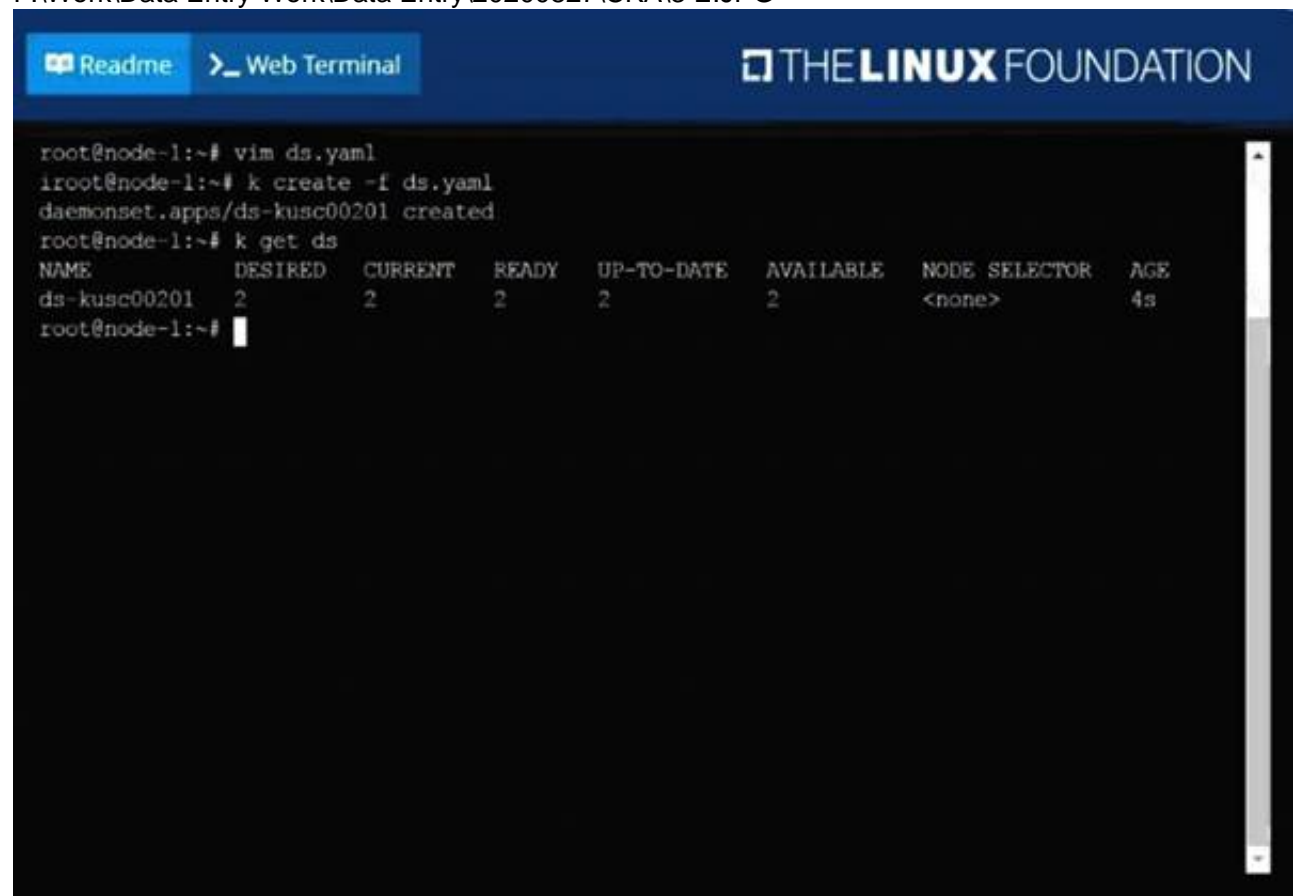


```
apiVersion: apps/v1
kind: DaemonSet
metadata:
  name: fluentd-elasticsearch
  namespace: kube-system
  labels:
    k8s-app: fluentd-logging
spec:
  selector:
    matchLabels:
      name: fluentd-elasticsearch
  template:
    metadata:
      labels:
        name: fluentd-elasticsearch
    spec:
      tolerations:
        # this toleration is to have the daemonset runnable on master nodes
        # remove it if your masters can't run pods
        - key: node-role.kubernetes.io/master
          effect: NoSchedule
      containers:
        - name: nginx
          image: nginx
-- INSERT --
```

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NEW QUESTION 7

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@wk8s-node-0] $ | sudo ?Ci
```

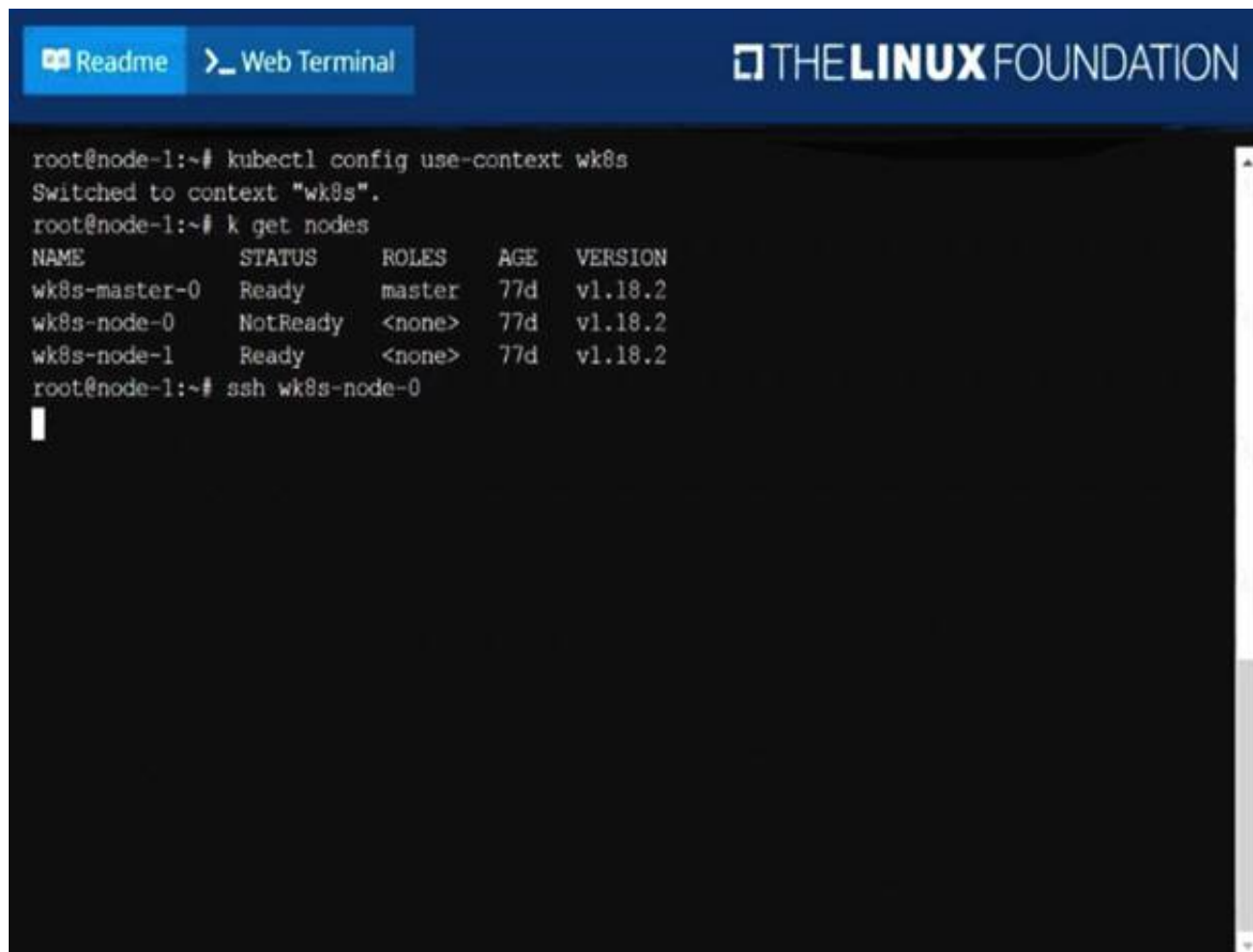
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

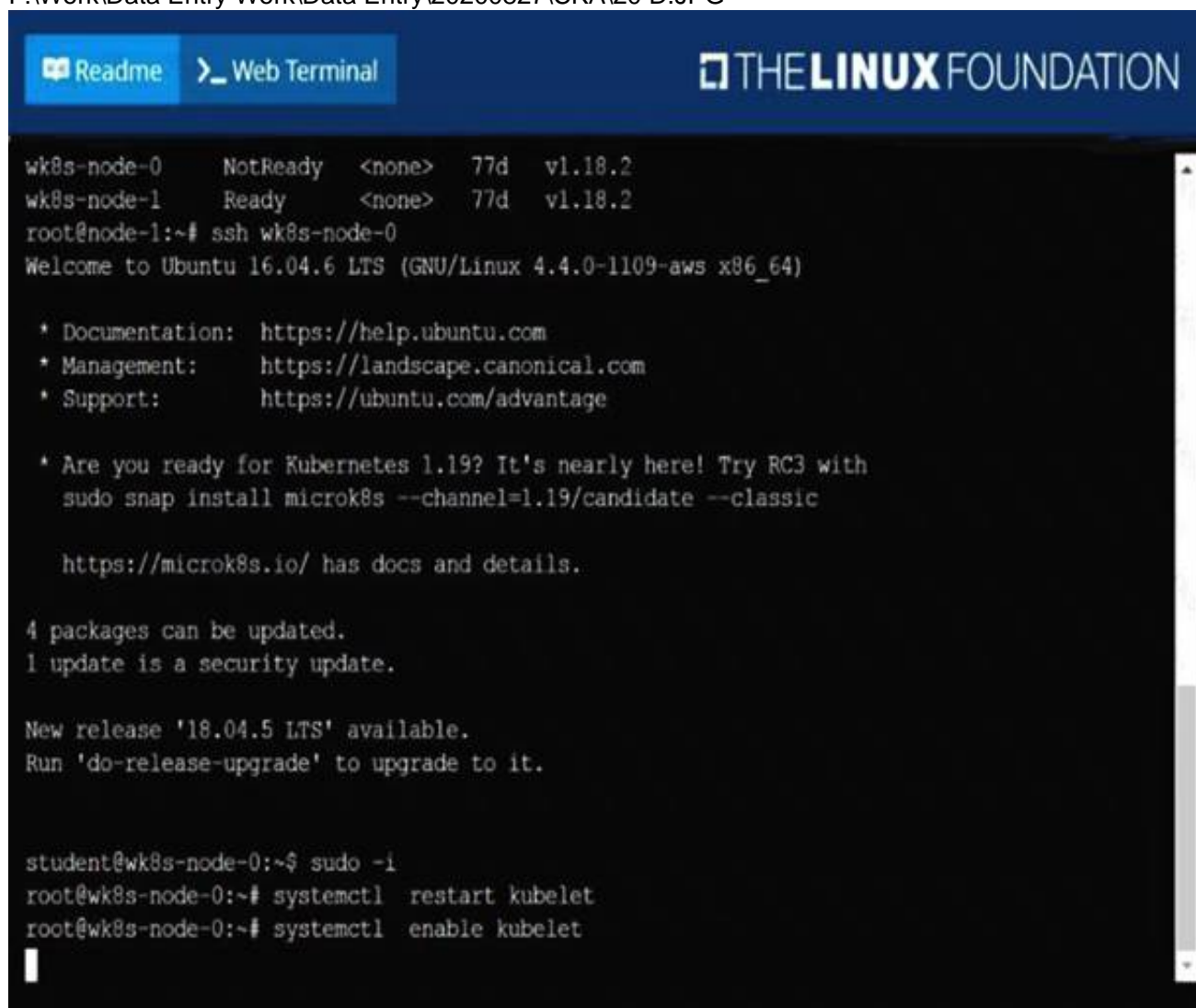
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The screenshot shows a web terminal window with a dark background. At the top, there is a blue header bar with a "Readme" button and a "Web Terminal" button. The "THE LINUX FOUNDATION" logo is on the right. The terminal content shows a user at a root node-1 prompt. They run 'kubectl config use-context wk8s', which switches the context. Then they run 'k get nodes', displaying a table of node statuses. Finally, they run 'ssh wk8s-node-0'.

```
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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The screenshot shows a web terminal window with a dark background. At the top, there is a blue header bar with a "Readme" button and a "Web Terminal" button. The "THE LINUX FOUNDATION" logo is on the right. The terminal content shows a user at a root node-1 prompt. They run 'ssh wk8s-node-0', which connects to a node running Ubuntu 16.04.6 LTS. The terminal shows system update information, including a security update and a new LTS release. Then, the user runs 'sudo -i' to become root, and then 'systemctl restart kubelet' and 'systemctl enable kubelet'.

```
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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The screenshot shows a web terminal interface with a dark background. At the top, there are two tabs: 'Readme' and 'Web Terminal'. The 'Web Terminal' tab is active, displaying a terminal session. The terminal output shows a user logging into a node, running system updates, and then using 'sudo -i' to become root. As root, the user restarts and enables the kubelet service. Finally, the user runs 'k get nodes' to list the cluster nodes, which shows three nodes: wk8s-master-0, wk8s-node-0, and wk8s-node-1, all in a 'Ready' state.

```

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
Created symlink from /etc/systemd/system/multi-user.target.wants/kubelet.service to /lib/systemd/system/kubelet.service.
root@wk8s-node-0:~# exit
logout
student@wk8s-node-0:~$ exit
logout
Connection to 10.250.5.34 closed.
root@node-1:~# k get nodes
NAME             STATUS    ROLES    AGE   VERSION
wk8s-master-0    Ready     master   77d   v1.18.2
wk8s-node-0      Ready     <none>   77d   v1.18.2
wk8s-node-1      Ready     <none>   77d   v1.18.2
root@node-1:~#

```

NEW QUESTION 8

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 ?Call-namespaces > /opt/pods-list.yaml

NEW QUESTION 9

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 http://namedwebtool 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 ?Ci

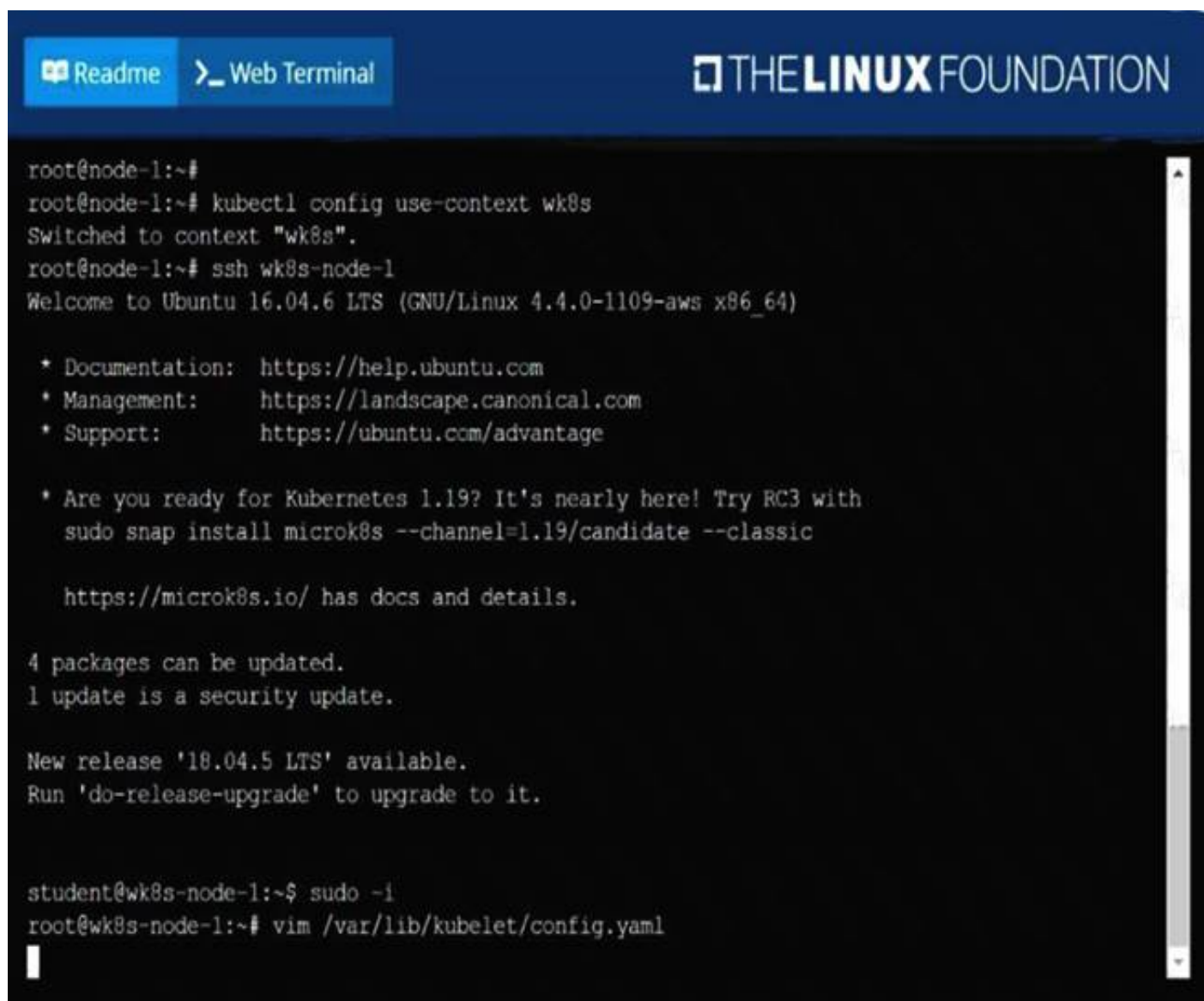
- A. Mastered
- B. Not Mastered

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

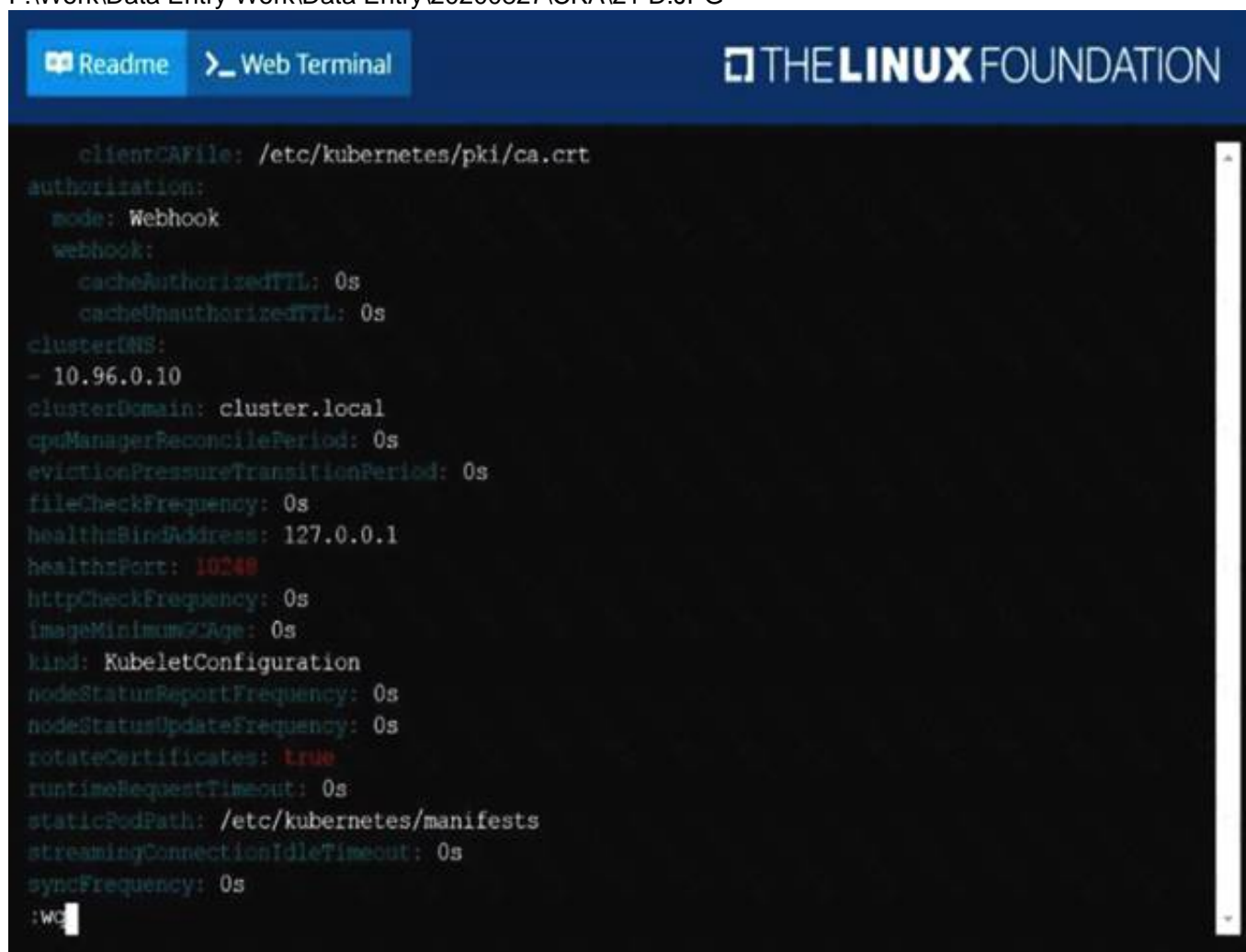
   https://microk8s.io/ has docs and details.

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
```

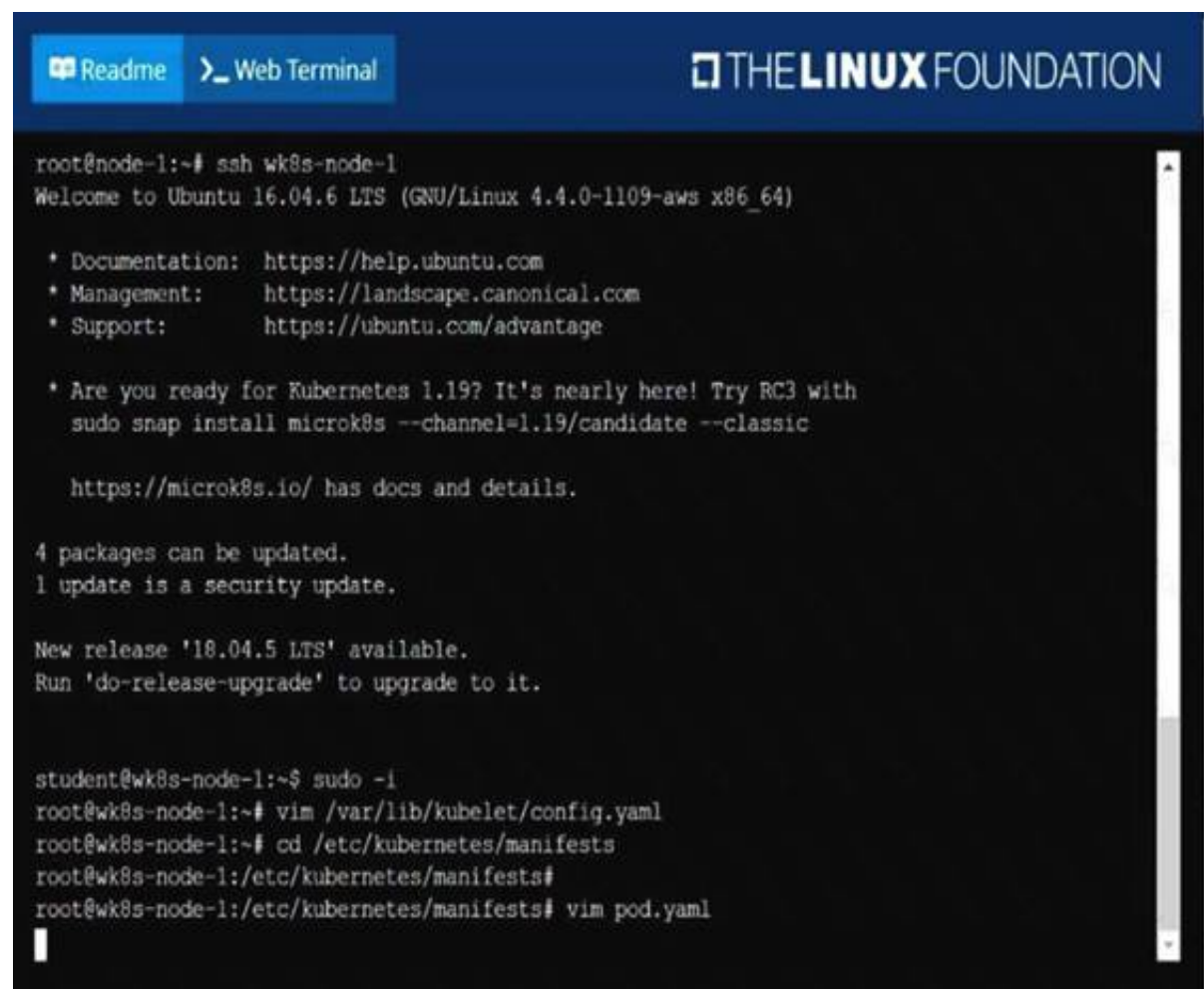
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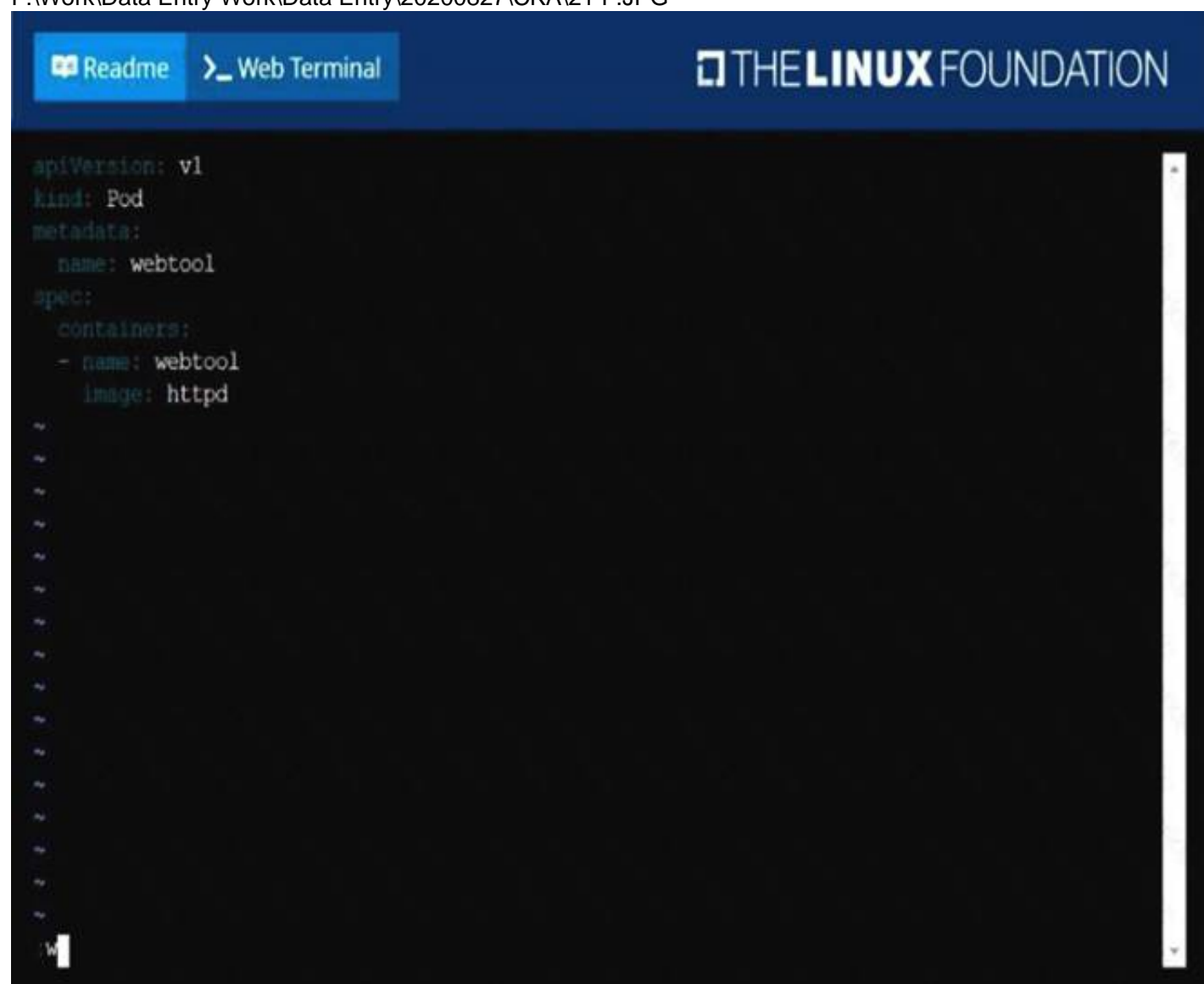
```
Readme Web Terminal THE LINUX FOUNDATION

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
:WC
```

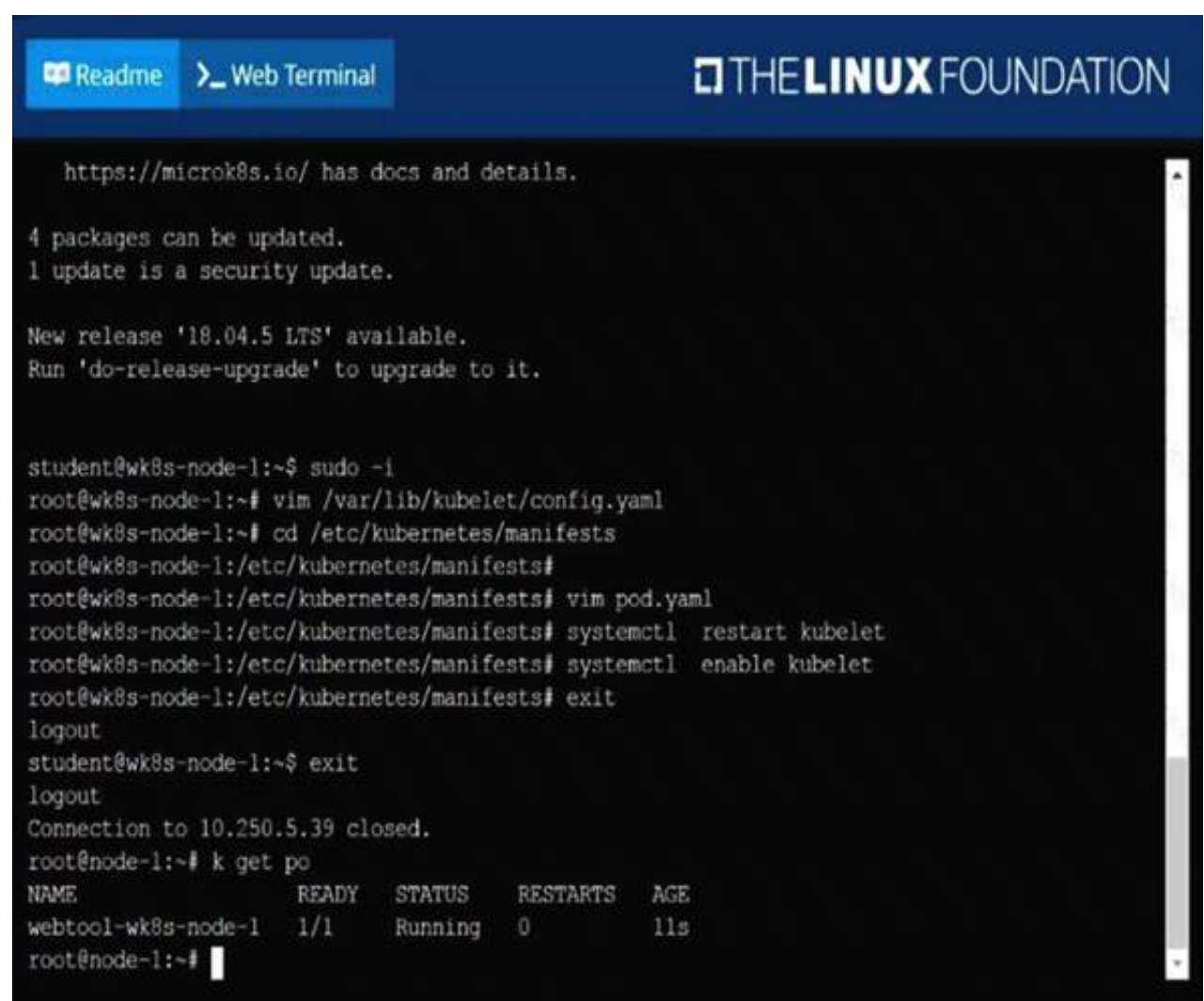
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The screenshot shows a terminal window with a dark background and light-colored text. At the top, there is a blue header bar with the text "THE LINUX FOUNDATION" on the right and two buttons on the left: "Readme" and "Web Terminal". The terminal content shows a series of commands and their outputs. It starts with a URL, then shows package updates, then a new release of Ubuntu. The main part of the terminal shows a user logging in as 'student' on 'wk8s-node-1', running 'sudo -i' to become root, editing '/var/lib/kubelet/config.yaml' and '/etc/kubernetes/manifests/pod.yaml' with 'vim', restarting and enabling 'kubelet' with 'systemctl', and finally logging out. The last part shows the user logging in as 'root' on 'node-1' and running 'k get po', which displays a table of pods.

```
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
root@wk8s-node-1:~# cd /etc/kubernetes/manifests
root@wk8s-node-1:/etc/kubernetes/manifests#
root@wk8s-node-1:/etc/kubernetes/manifests# vim pod.yaml
root@wk8s-node-1:/etc/kubernetes/manifests# systemctl restart kubelet
root@wk8s-node-1:/etc/kubernetes/manifests# systemctl enable kubelet
root@wk8s-node-1:/etc/kubernetes/manifests# exit
logout
student@wk8s-node-1:~$ exit
logout
Connection to 10.250.5.39 closed.
root@node-1:~# k get po
NAME                READY   STATUS    RESTARTS   AGE
webtool-wk8s-node-1  1/1     Running   0           11s
root@node-1:~#
```

NEW QUESTION 10

From the pod labelname=cpu-utilizer, find podsrunning high CPU workloads and write the name of the pod consumingmost CPU to thefile/opt/KUTR00102/KUTR00102.txt(which already exists).

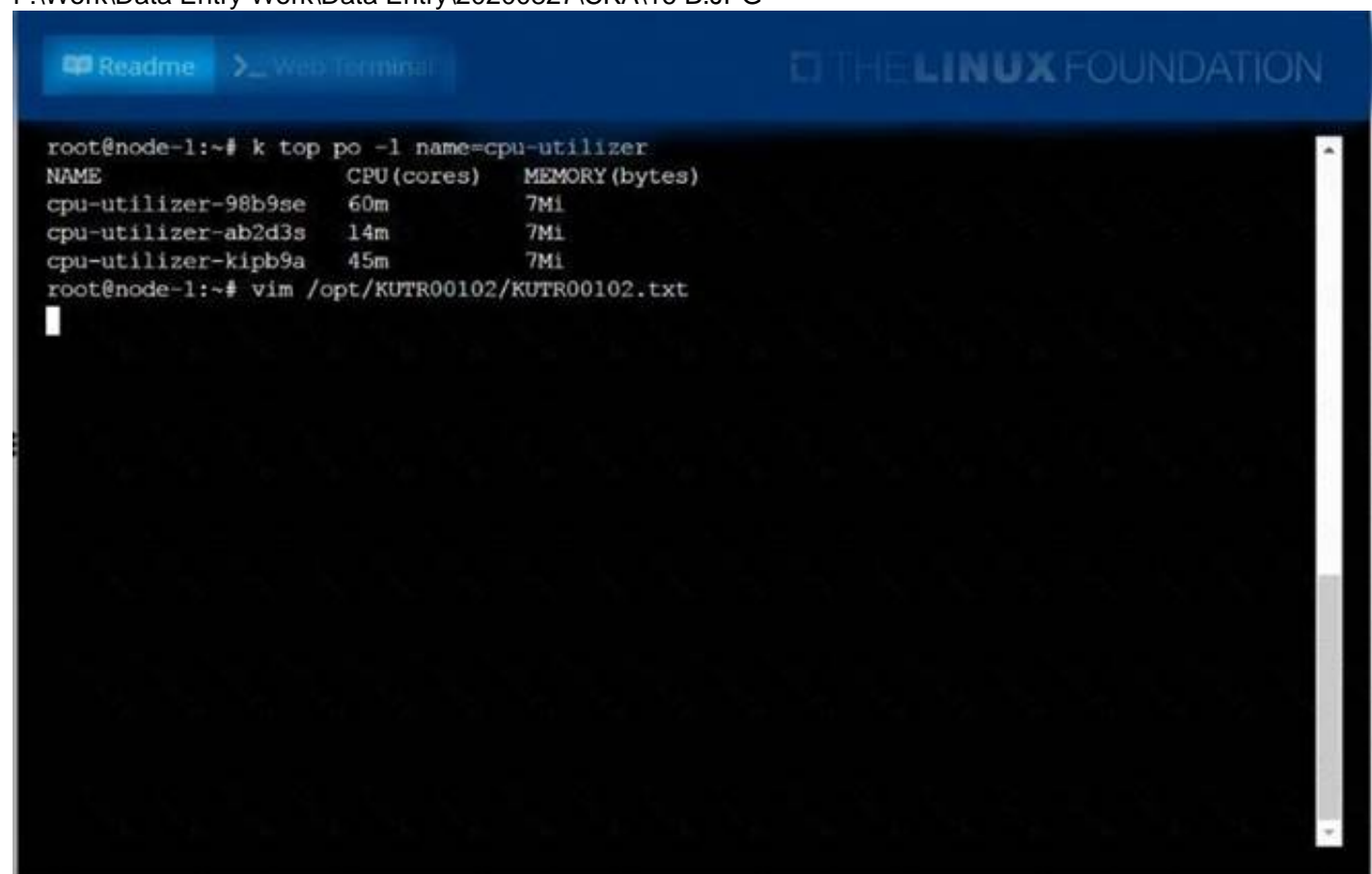
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

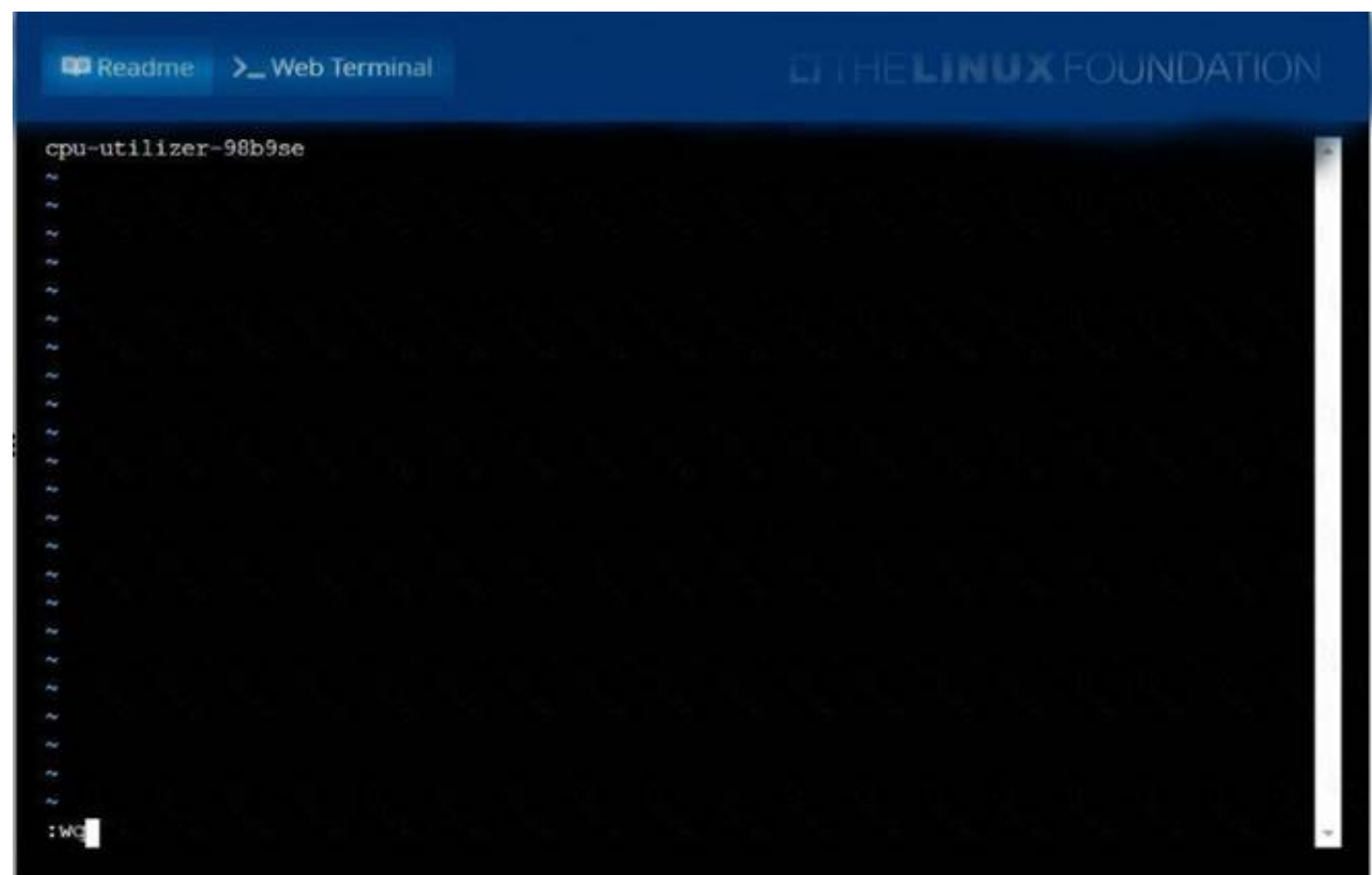
F:\Work\Data Entry Work\Data Entry\20200827\CKA\16 B.JPG



The screenshot shows a terminal window with a dark background and light-colored text. At the top, there is a blue header bar with the text "THE LINUX FOUNDATION" on the right and two buttons on the left: "Readme" and "Web Terminal". The terminal content shows a user running 'k top po -l name=cpu-utilizer' as root on 'node-1'. This command outputs a table with columns 'NAME', 'CPU (cores)', and 'MEMORY (bytes)'. The table lists three pods: 'cpu-utilizer-98b9se' (60m CPU, 7Mi memory), 'cpu-utilizer-ab2d3s' (14m CPU, 7Mi memory), and 'cpu-utilizer-kipb9a' (45m CPU, 7Mi memory). The user then runs 'vim /opt/KUTR00102/KUTR00102.txt' to create a file.

```
root@node-1:~# k top po -l name=cpu-utilizer
NAME                CPU (cores)  MEMORY (bytes)
cpu-utilizer-98b9se  60m          7Mi
cpu-utilizer-ab2d3s  14m          7Mi
cpu-utilizer-kipb9a  45m          7Mi
root@node-1:~# vim /opt/KUTR00102/KUTR00102.txt
```

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NEW QUESTION 10

Perform the following tasks:

- Add an init container tohungry-bear(which has beendefined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)
- The init container should createan empty file named/workdir/calm.txt
- If/workdir/calm.txtis notdetected, the pod should exit
- Once the spec file has beenupdatedwith the init containerdefinition, the pod should becreated

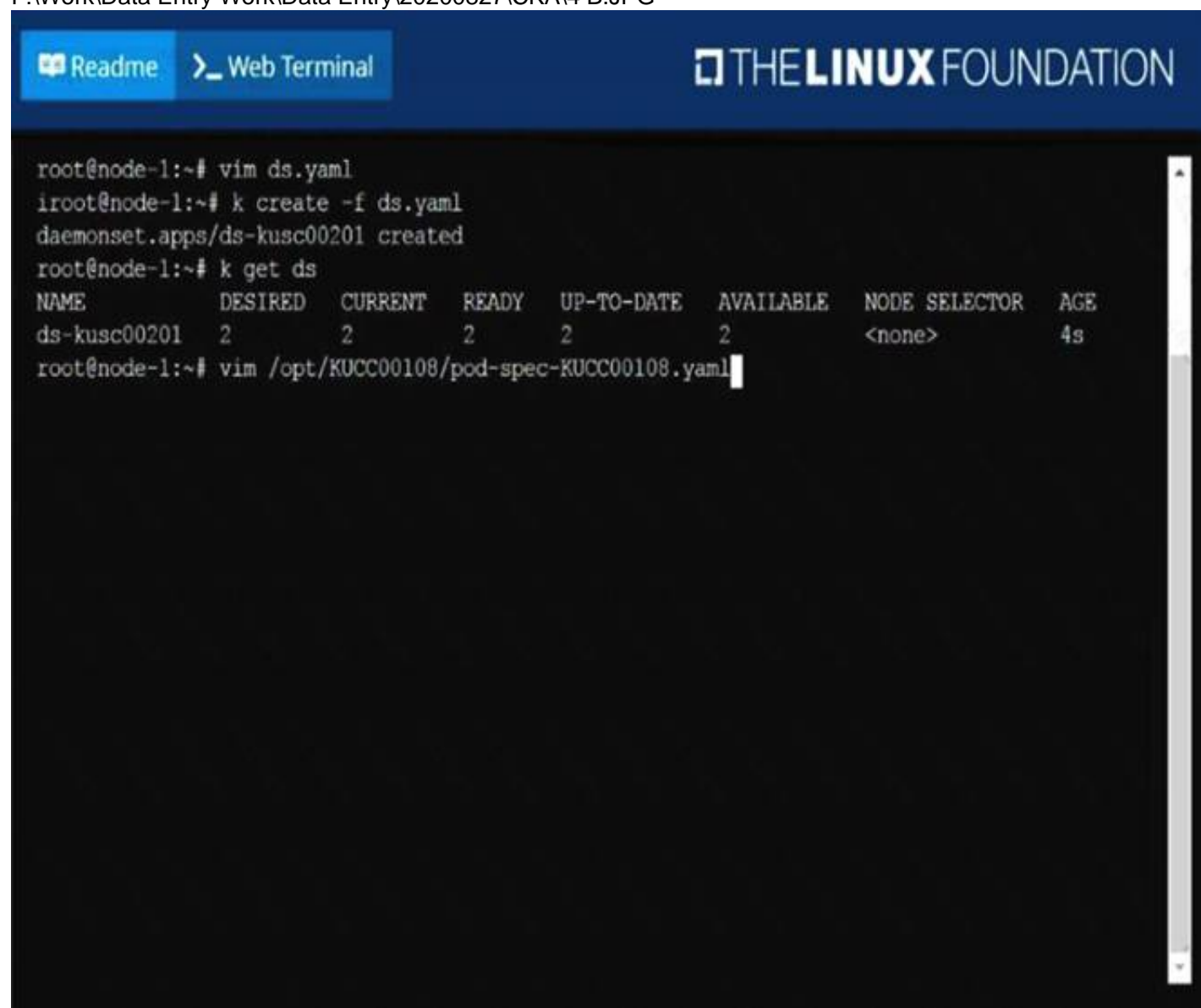
- A. Mastered
- B. Not Mastered

Answer: A

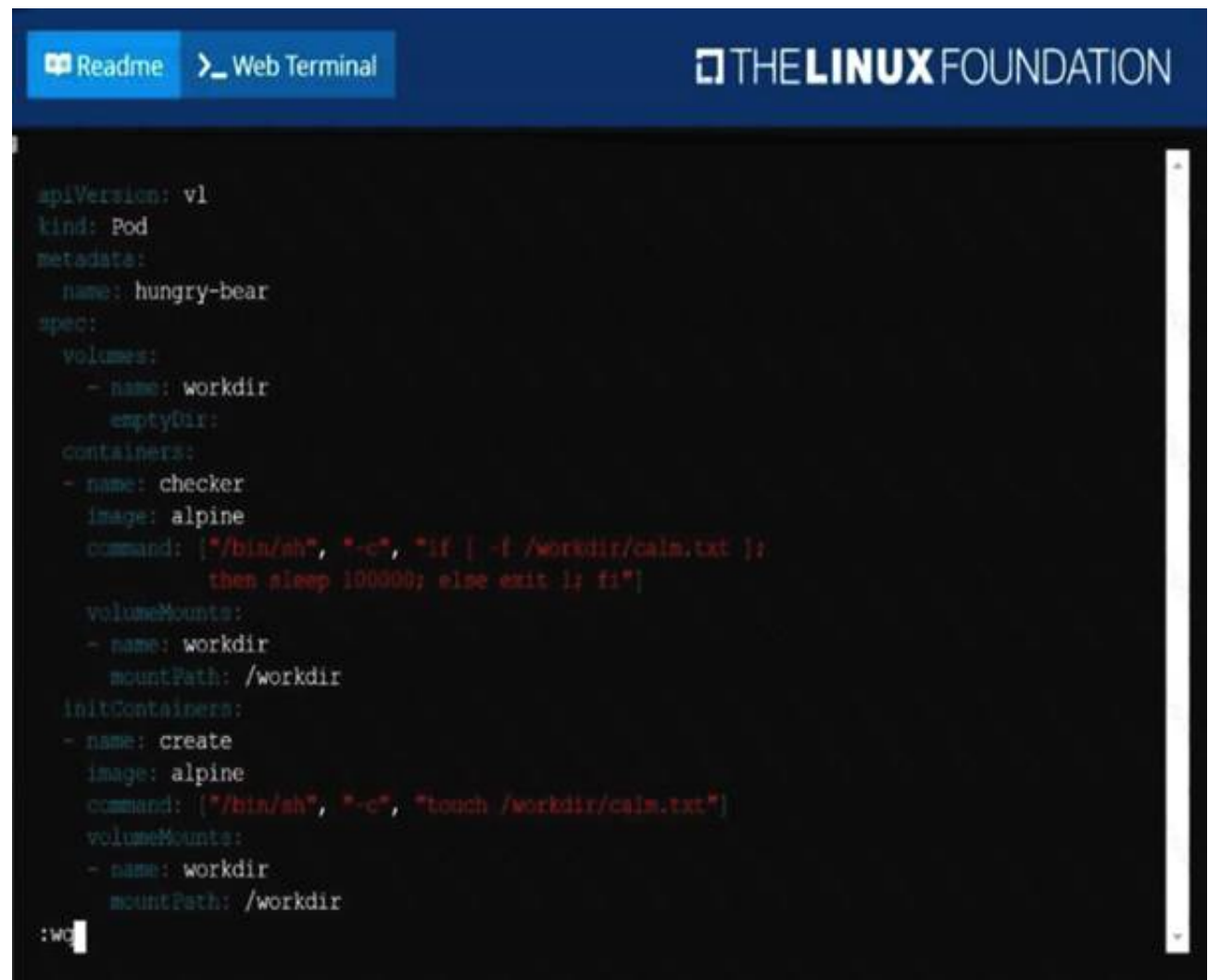
Explanation:

solution

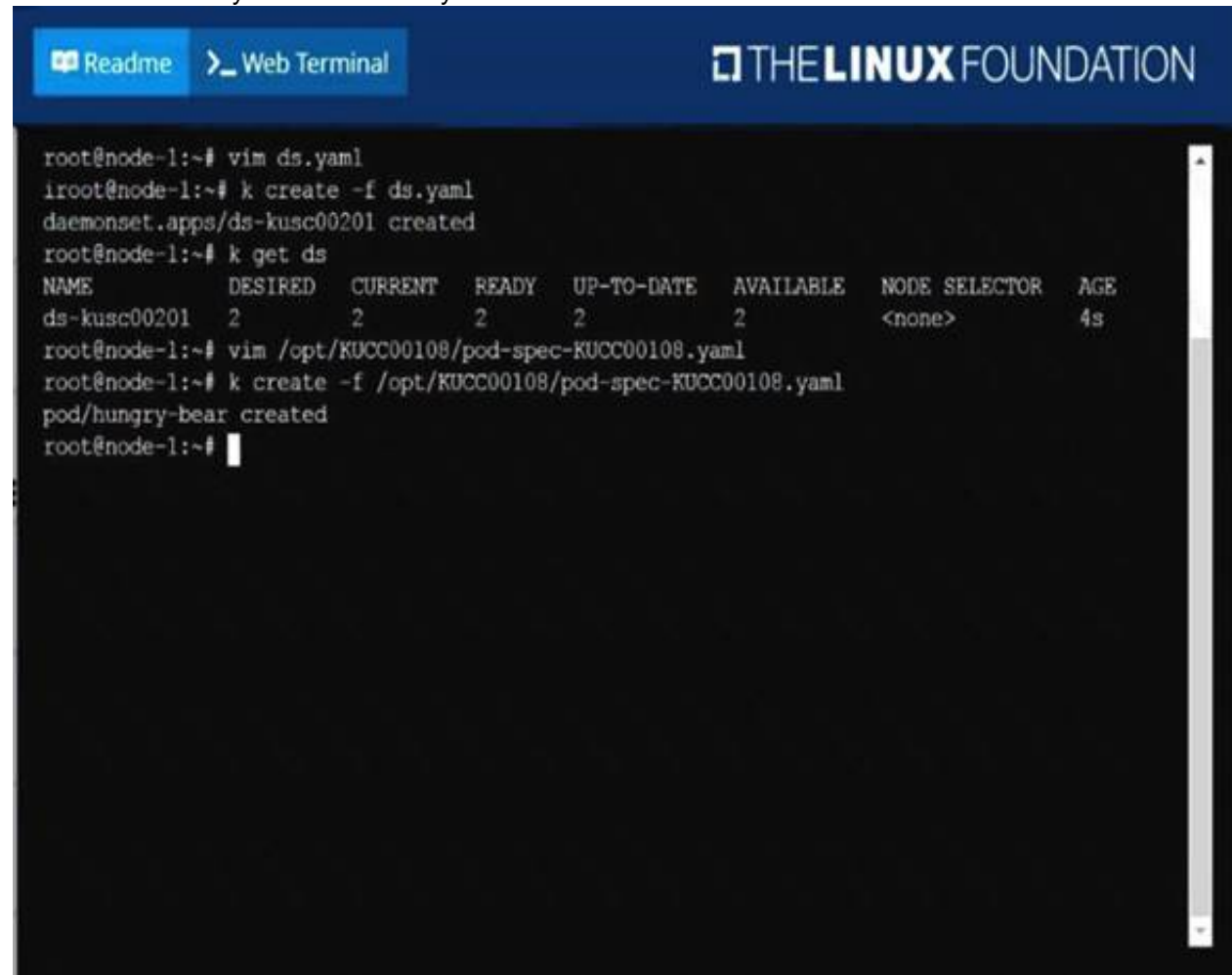
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NEW QUESTION 11

Create and configure the service front-end-services 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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ReadmeWeb Terminal

THE LINUX FOUNDATION

```
root@node-1:~# k expose po
error: resource(s) were provided, but no name, label selector, or --all flag specified
See 'kubectl expose -h' for help and examples
root@node-1:~# k expose po  fron-end --name=front-end-service --port=80 --target-port=80 --t
ype=NodePort
Error from server (NotFound): pods "fron-end" not found
root@node-1:~# k expose po  front-end --name=front-end-service --port=80 --target-port=80 --
type=NodePort
service/front-end-service exposed
root@node-1:~# k get svc
NAME                TYPE        CLUSTER-IP      EXTERNAL-IP  PORT(S)          AGE
front-end-service   NodePort    10.103.221.227  <none>       80:31828/TCP     3s
kubernetes           ClusterIP   10.96.0.1       <none>       443/TCP          77d
root@node-1:~#
```

NEW QUESTION 14

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 15

.....

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