

CKA Dumps

Certified Kubernetes Administrator (CKA) Program

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



NEW QUESTION 1

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

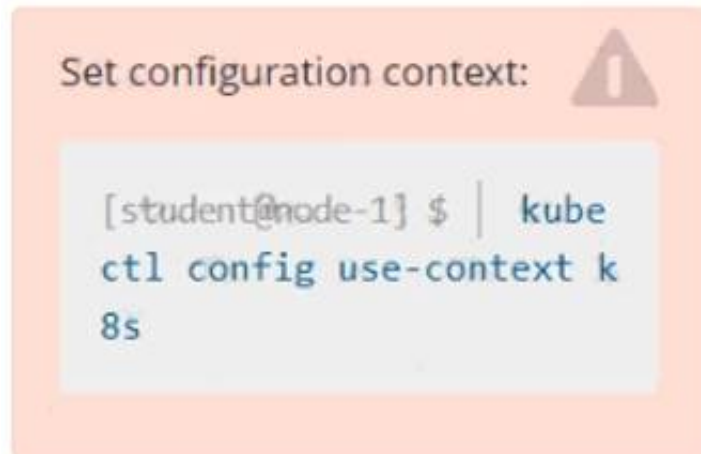
- A. Mastered
B. Not Mastered

Answer: A**Explanation:**

Solution:

`kubectl logs bar | grep 'unable-to-access-website' > /opt/KUTR00101/bar cat /opt/KUTR00101/bar`**NEW QUESTION 2**

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 --target-port=80 --type=NodePort`**NEW QUESTION 3**

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 -i

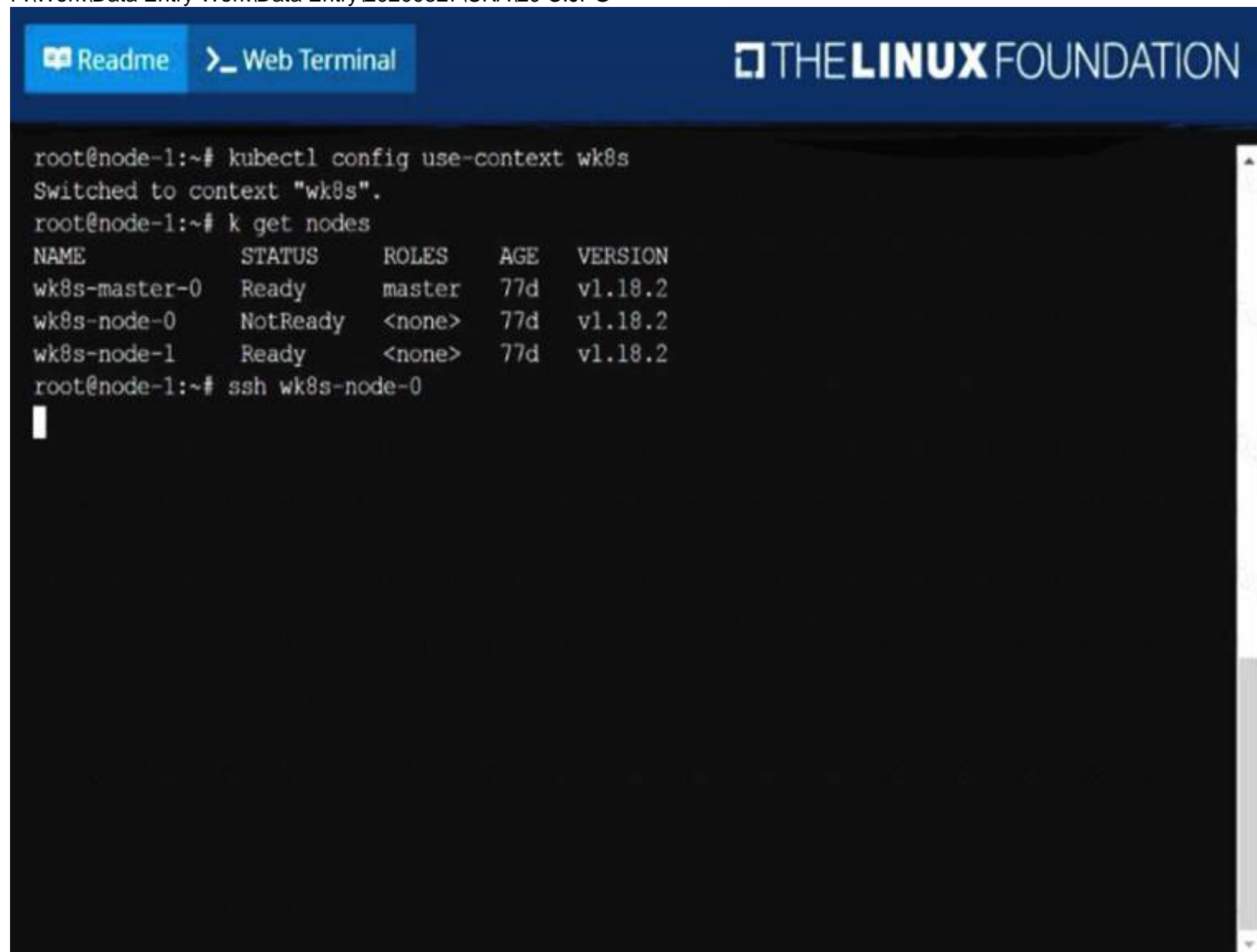
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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The screenshot shows a terminal window with a dark background. At the top, there is a blue header bar with the text "THE LINUX FOUNDATION" on the right. On the left of the header bar, there are two buttons: "Readme" and "Web Terminal". The terminal content shows the following commands and output:

```
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
```

A cursor is visible at the end of the last command line.

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Readme
Web Terminal

```

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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Readme
Web Terminal

```

   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/sy
temd/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 4

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 5

Create a pod that having 3 containers in it? (Multi-Container)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

image=nginx, image=redis, image=consul Name nginx container as “nginx-container” Name redis container as “redis-container” Name consul container as “consul-container”

Create a pod manifest file for a container and append container section for rest of the images

```
kubectl run multi-container --generator=run-pod/v1 --image=nginx -- dry-run -o yaml > multi-container.yaml
```

then

```
vim multi-container.yaml apiVersion: v1
```

```
kind: Pod metadata: labels:
```

```
run: multi-container name: multi-container spec:
```

```
containers:
```

```
- image: nginx
```

```
name: nginx-container
```

```
- image: redis
```

```
name: redis-container
```

```
- image: consul
```

```
name: consul-container restartPolicy: Always
```

NEW QUESTION 6

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 7

Monitor the logs of pod foo and:

- Extract log lines corresponding to error unable-to-access-website
- Write them to/opt/KULM00201/foo



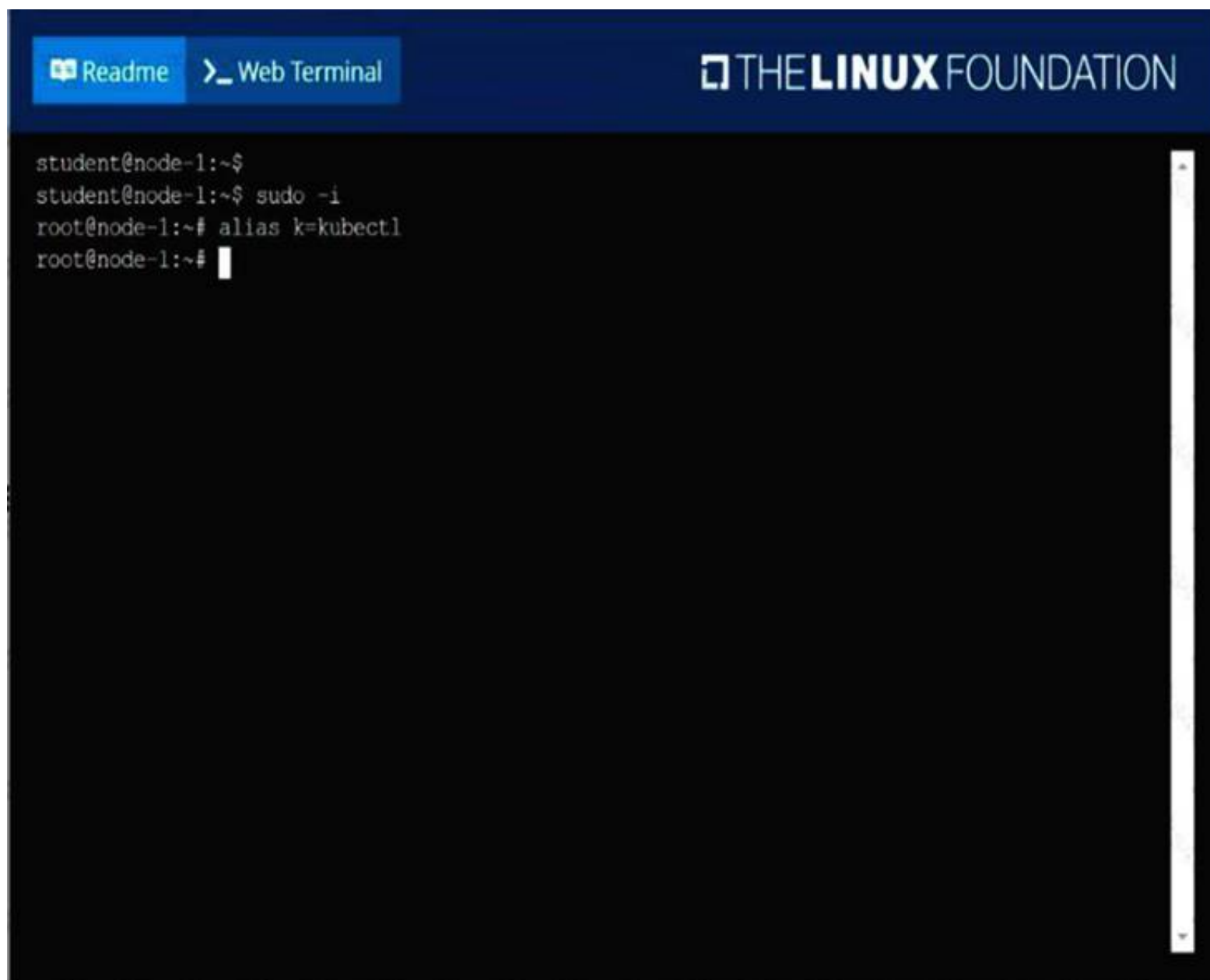
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

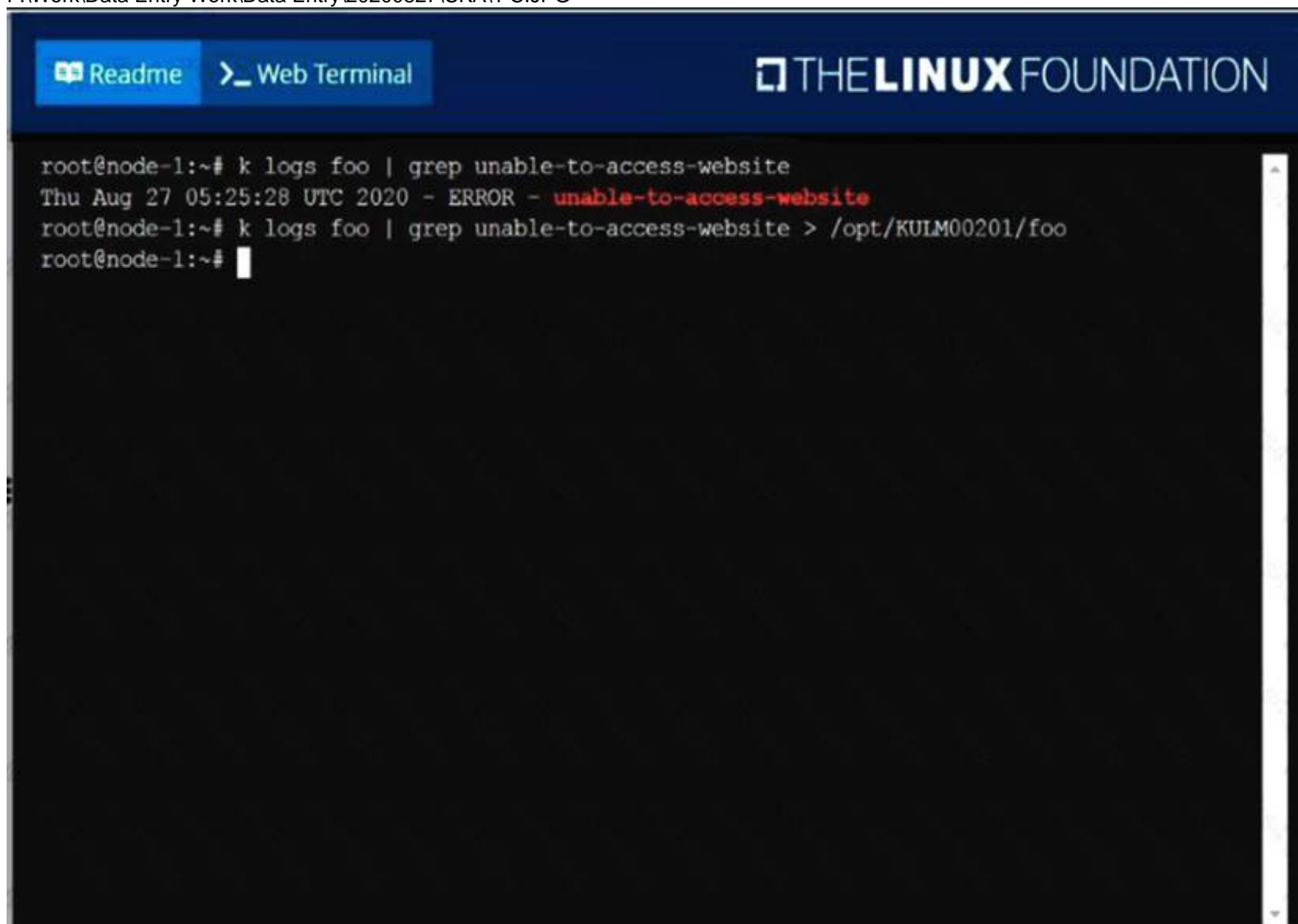
solution

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```
student@node-1:~$  
student@node-1:~$ sudo -i  
root@node-1:~# alias k=kubectl  
root@node-1:~#
```

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```
root@node-1:~# k logs foo | grep unable-to-access-website  
Thu Aug 27 05:25:28 UTC 2020 - ERROR - unable-to-access-website  
root@node-1:~# k logs foo | grep unable-to-access-website > /opt/KULM00201/foo  
root@node-1:~#
```

NEW QUESTION 8

Create a pod as follows:

- > Name: mongo
- > Using Image: mongo
- > In a new Kubernetes namespace named: my-website

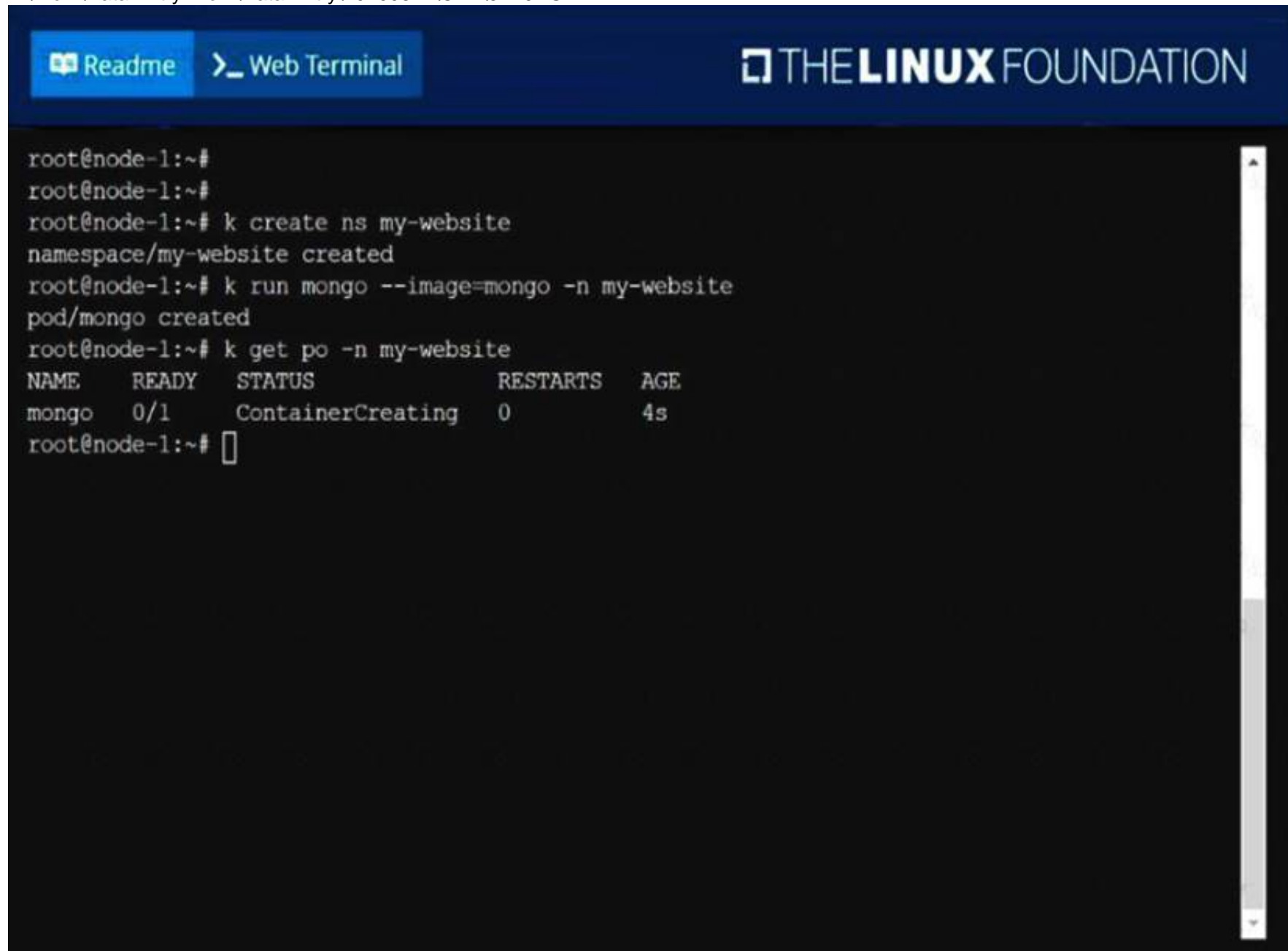
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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The screenshot shows a terminal window with a dark background. At the top, there is a blue header bar with the text "Readme" and "Web Terminal" on the left, and "THE LINUX FOUNDATION" logo on the right. The terminal content shows a series of commands and their outputs:

```
root@node-1:~#  
root@node-1:~#  
root@node-1:~# k create ns my-website  
namespace/my-website created  
root@node-1:~# k run mongo --image=mongo -n my-website  
pod/mongo created  
root@node-1:~# k get po -n my-website  
NAME      READY   STATUS             RESTARTS   AGE  
mongo     0/1     ContainerCreating   0           4s  
root@node-1:~#
```

NEW QUESTION 9

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 10

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

Check to see how many worker nodes are ready (not including nodes tainted NoSchedule) and write the number to /opt/KUCC00104/kucc00104.txt.

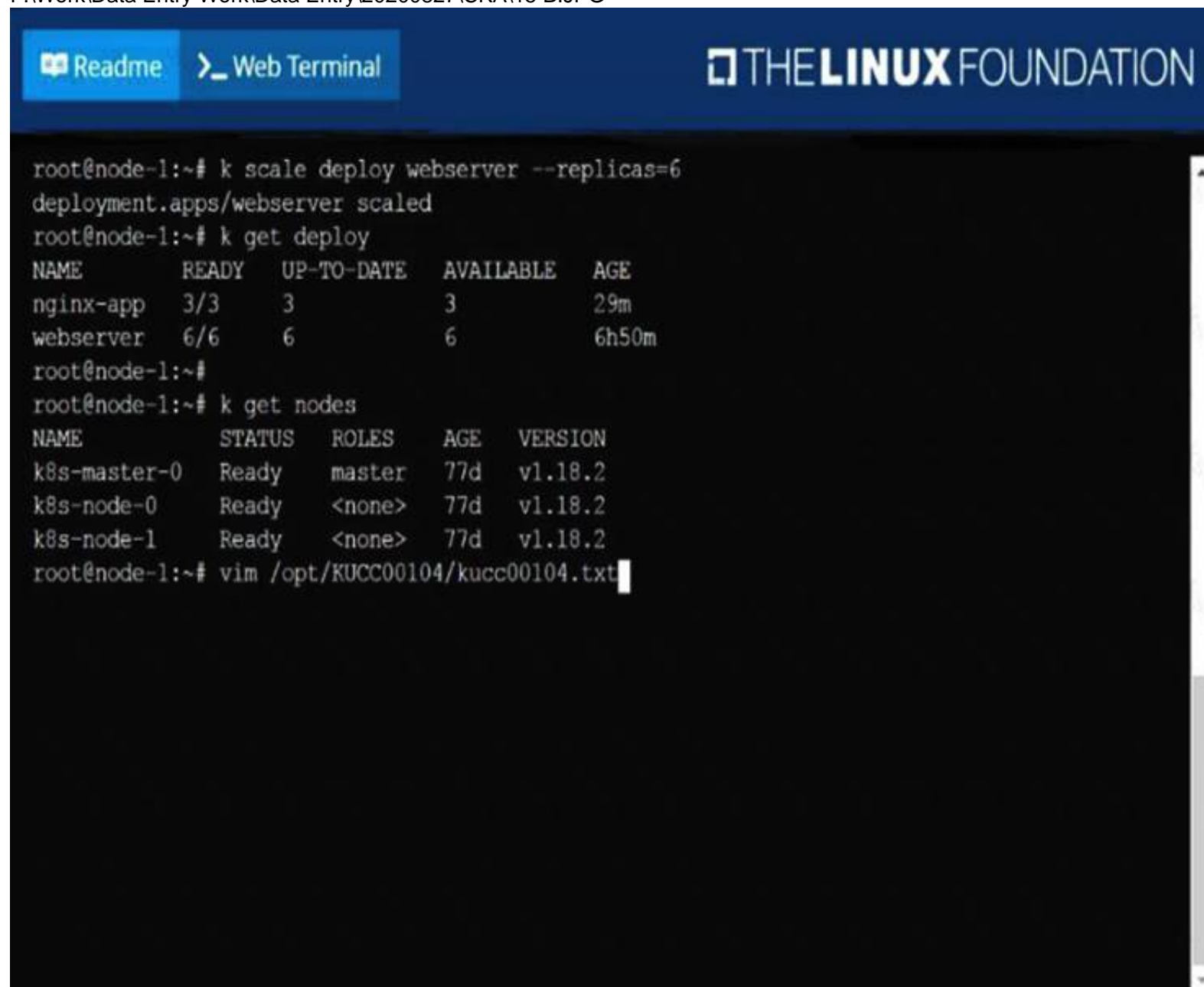
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

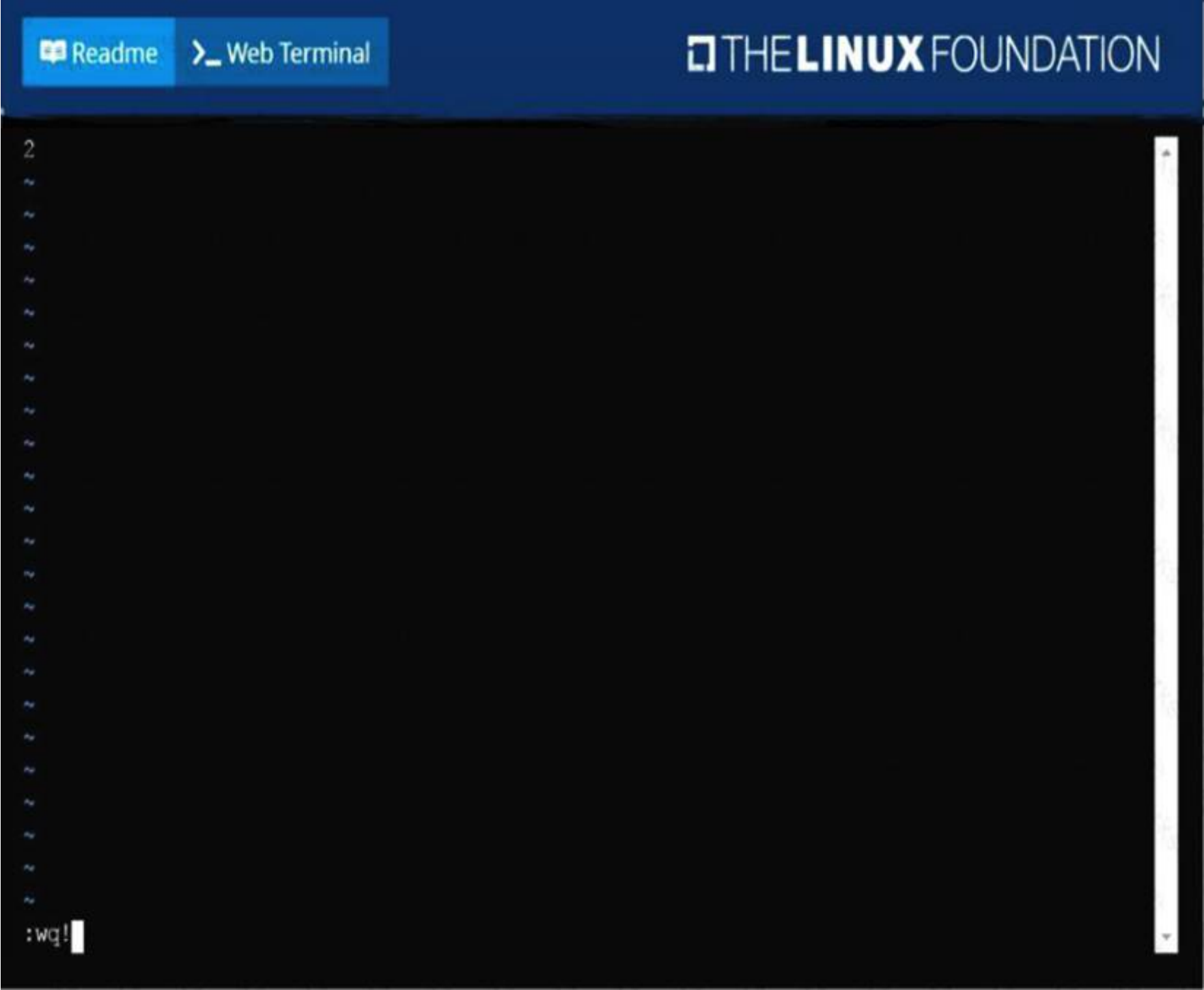
solution

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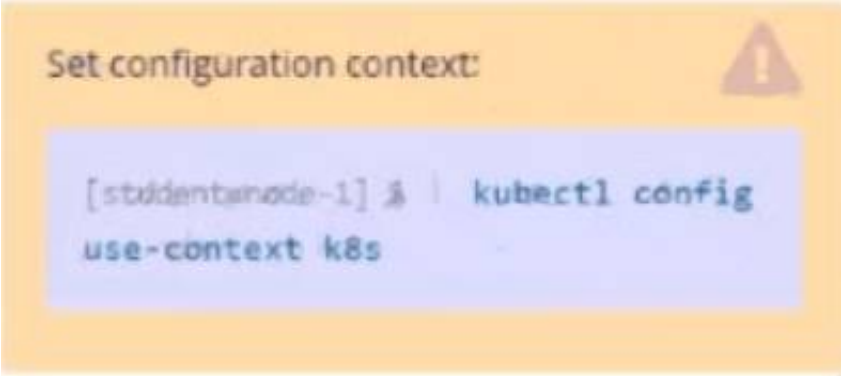


```
root@node-1:~# k scale deploy webserver --replicas=6
deployment.apps/webserver scaled
root@node-1:~# k get deploy
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
nginx-app     3/3     3             3           29m
webserver     6/6     6             6           6h50m
root@node-1:~#
root@node-1:~# k get nodes
NAME           STATUS    ROLES    AGE   VERSION
k8s-master-0   Ready     master   77d   v1.18.2
k8s-node-0     Ready     <none>    77d   v1.18.2
k8s-node-1     Ready     <none>    77d   v1.18.2
root@node-1:~# vim /opt/KUCC00104/kucc00104.txt
```

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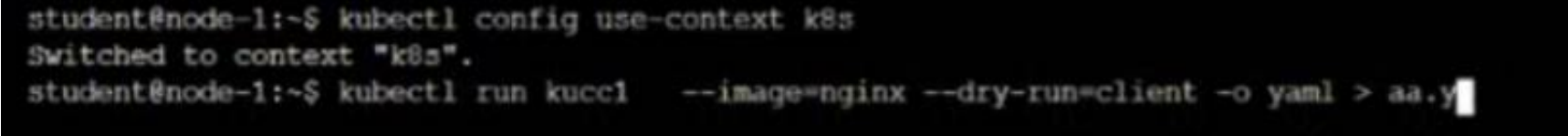
NEW QUESTION 13
Task Weight: 4%



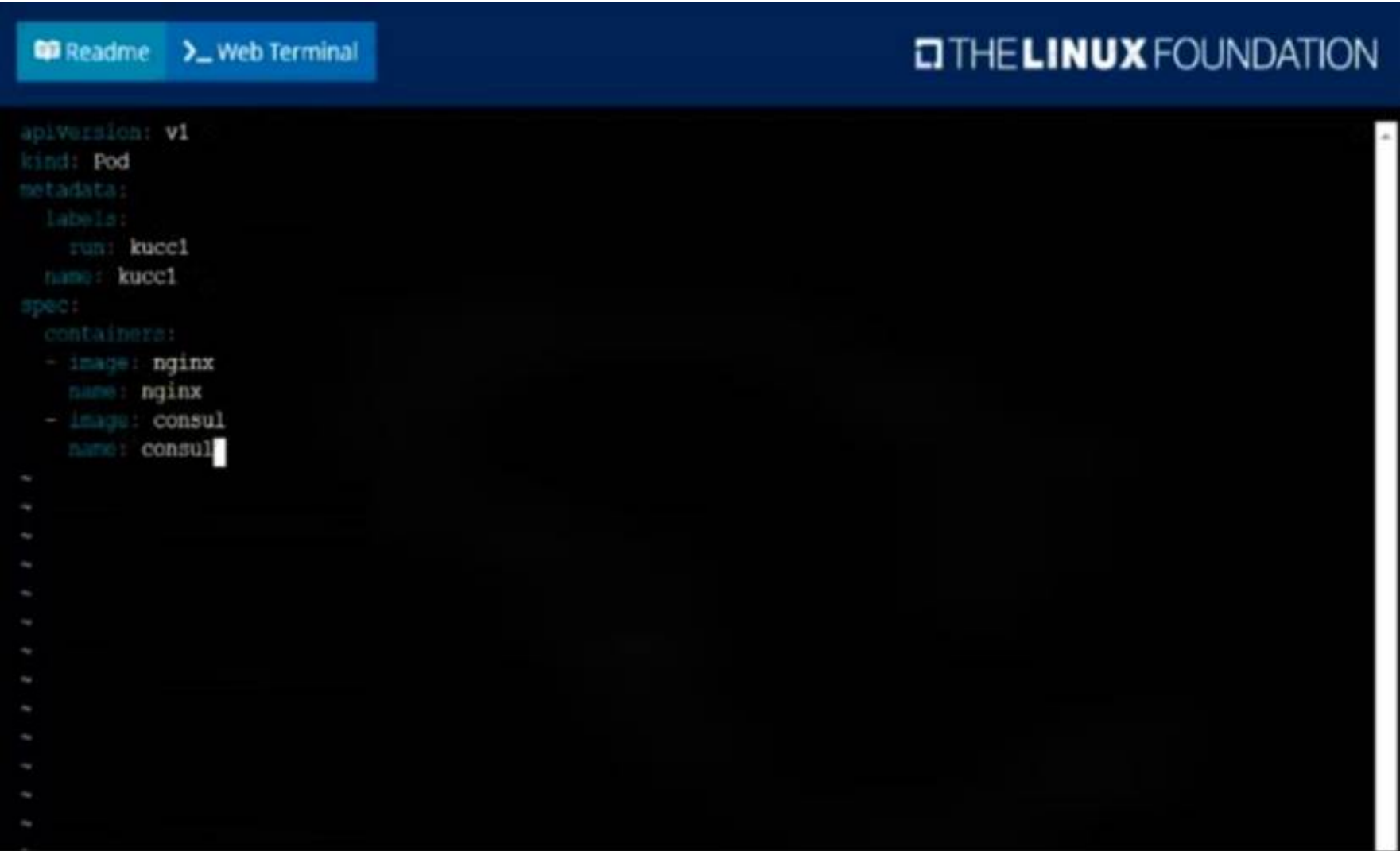
- Task
Schedule a Pod as follows:
- Name: kucc1
 - App Containers: 2
 - Container Name/Images: o nginx
o consul
- A. Mastered
B. Not Mastered

Answer: A

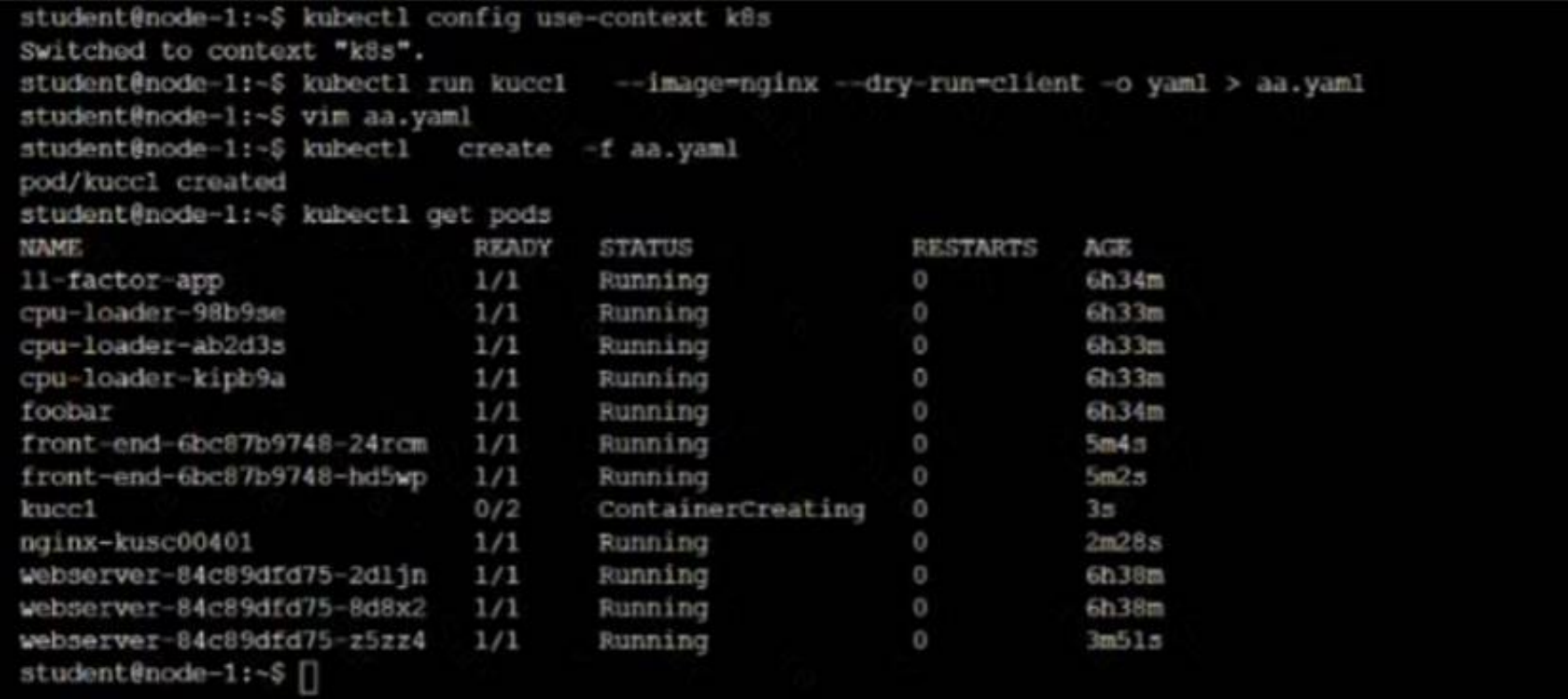
Explanation:
Solution:



Graphical user interface, text, application Description automatically generated



Text Description automatically generated



NEW QUESTION 17

Get list of all the pods showing name and namespace with a jsonpath expression.

- A. Mastered
- B. Not Mastered

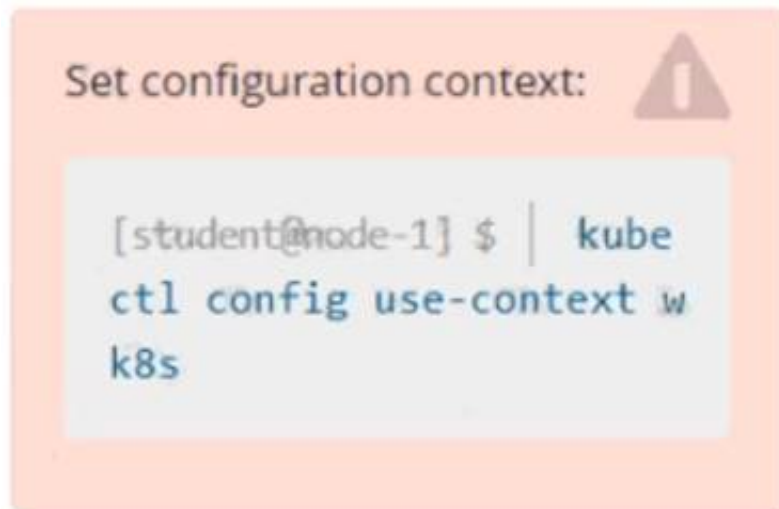
Answer: A

Explanation:

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

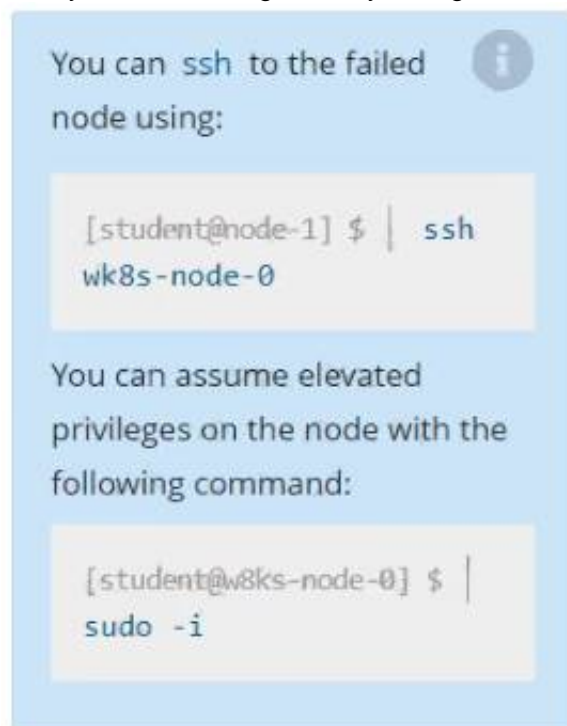
NEW QUESTION 20

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 24

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubect1 get pods --sort-by=.metadata.name

NEW QUESTION 26

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}'

NEW QUESTION 27

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.

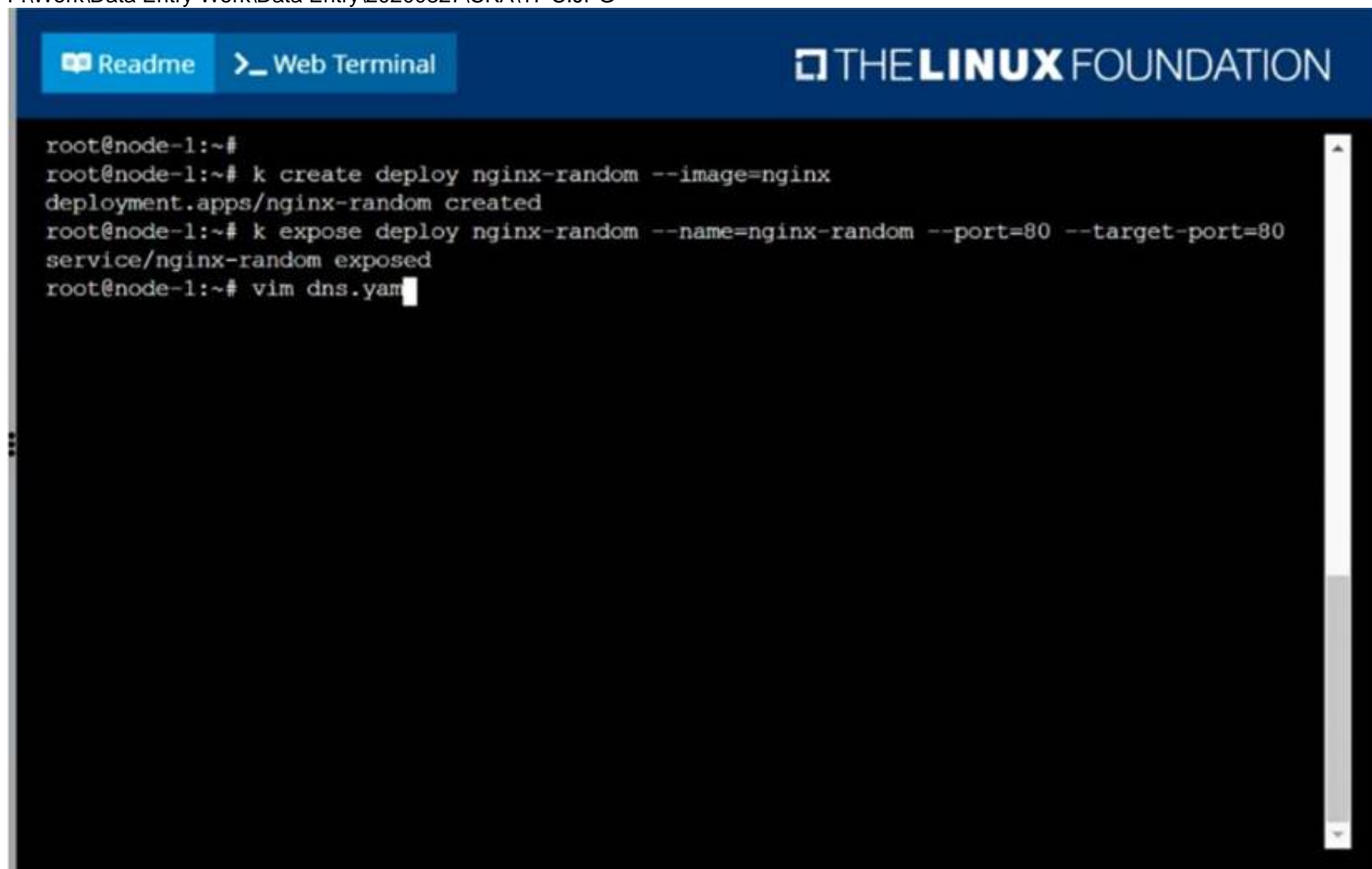
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

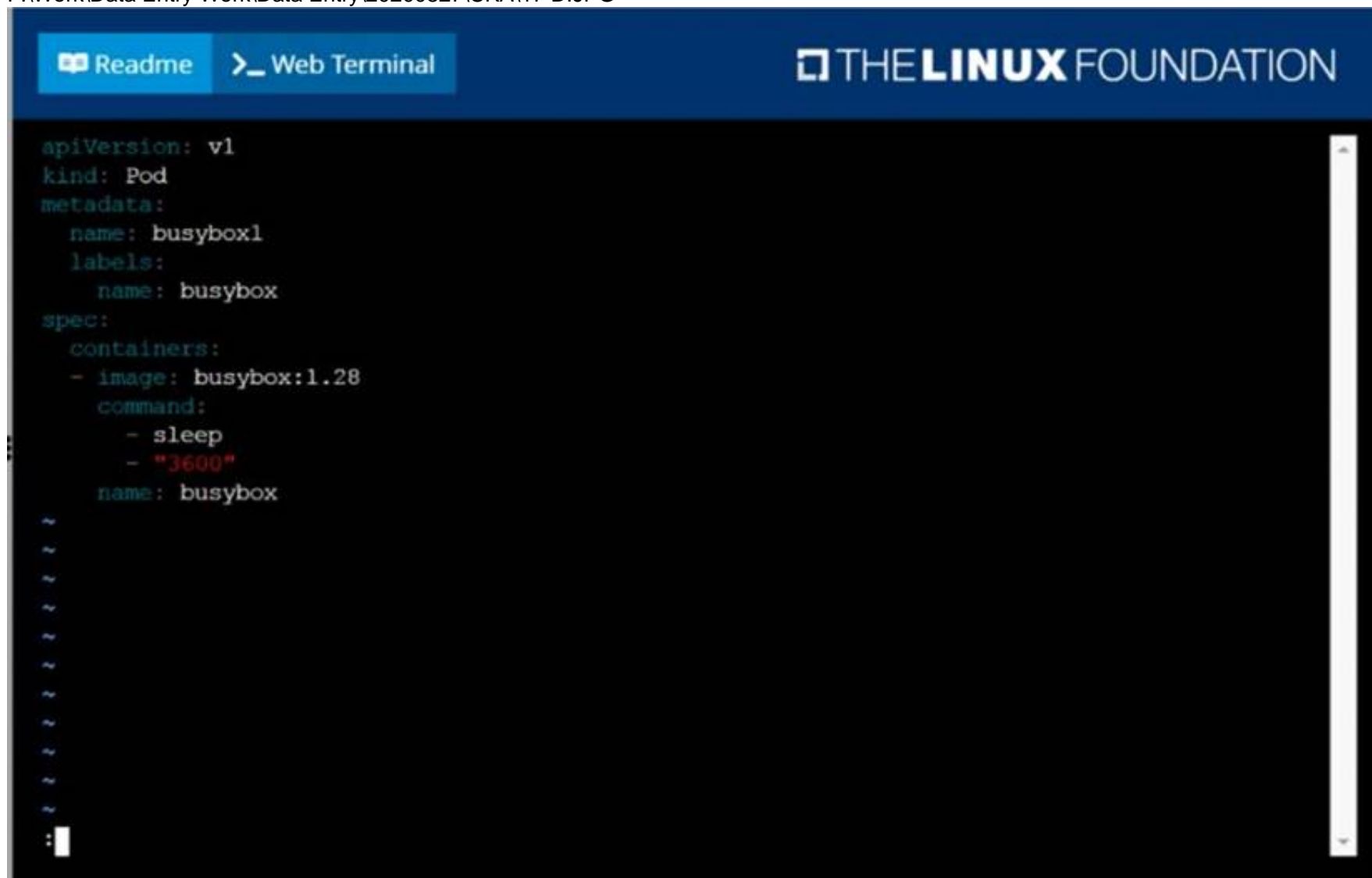
F:\Work\Data Entry Work\Data Entry\20200827\CKA\17 C.JPG



The screenshot shows a web terminal interface with a dark background. At the top, there is a blue header bar with the text "THE LINUX FOUNDATION" on the right. On the left of the header, there are two buttons: "Readme" and "Web Terminal". The terminal window displays the following commands and output:

```
root@node-1:~#  
root@node-1:~# k create deploy nginx-random --image=nginx  
deployment.apps/nginx-random created  
root@node-1:~# k expose deploy nginx-random --name=nginx-random --port=80 --target-port=80  
service/nginx-random exposed  
root@node-1:~# vim dns.yaml
```

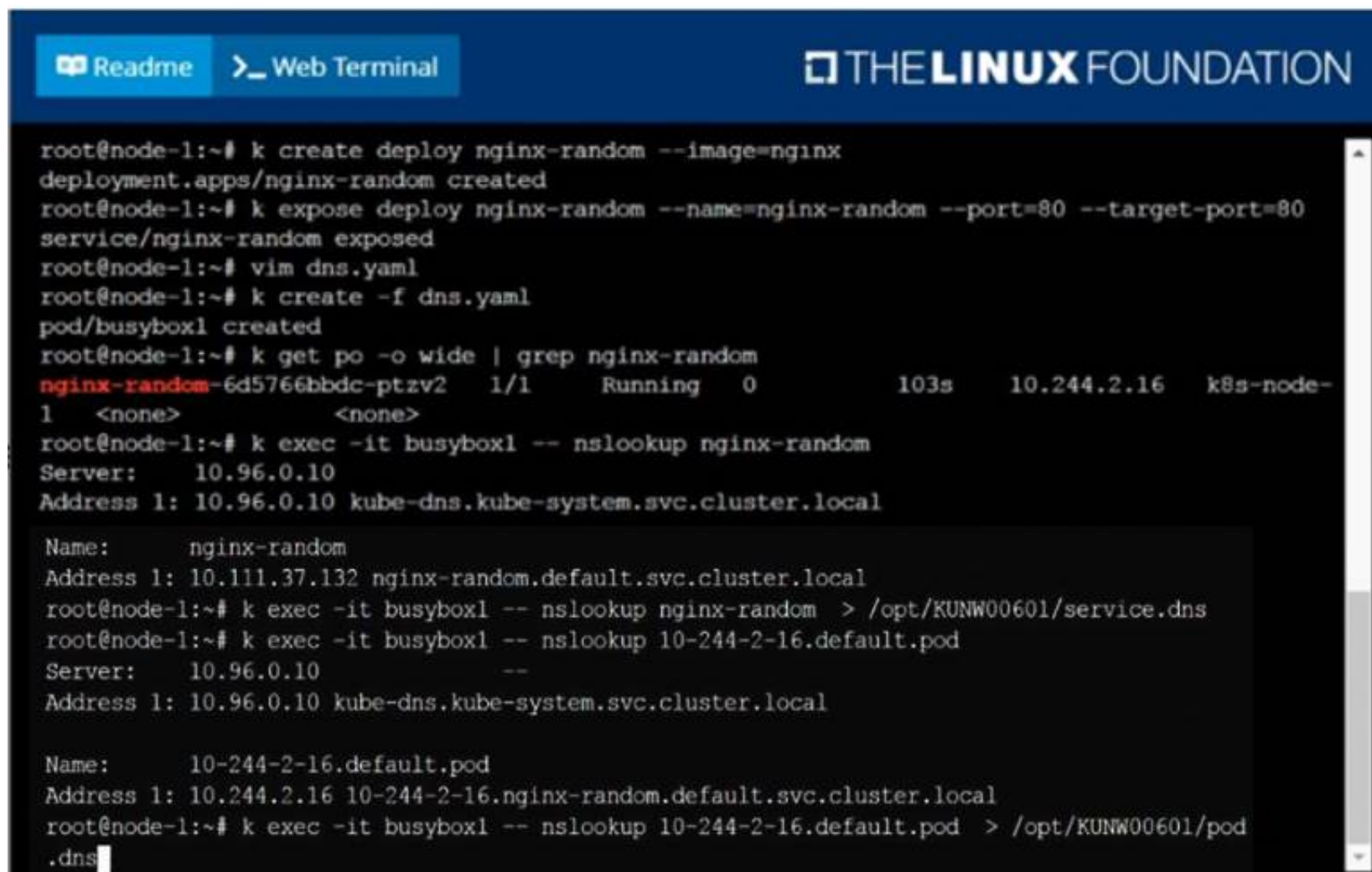
F:\Work\Data Entry Work\Data Entry\20200827\CKA\17 D.JPG



The screenshot shows a web terminal interface with a dark background. At the top, there is a blue header bar with the text "THE LINUX FOUNDATION" on the right. On the left of the header, there are two buttons: "Readme" and "Web Terminal". The terminal window displays the following YAML manifest:

```
apiVersion: v1  
kind: Pod  
metadata:  
  name: busybox1  
  labels:  
    name: busybox  
spec:  
  containers:  
  - image: busybox:1.28  
    command:  
      - sleep  
      - "3600"  
    name: busybox
```

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```
Readme Web Terminal THE LINUX FOUNDATION

root@node-1:~# k create deploy nginx-random --image=nginx
deployment.apps/nginx-random created
root@node-1:~# k expose deploy nginx-random --name=nginx-random --port=80 --target-port=80
service/nginx-random exposed
root@node-1:~# vim dns.yaml
root@node-1:~# k create -f dns.yaml
pod/busybox1 created
root@node-1:~# k get po -o wide | grep nginx-random
nginx-random-6d5766bbdc-ptzv2 1/1 Running 0 103s 10.244.2.16 k8s-node-1 <none> <none>
root@node-1:~# k exec -it busybox1 -- nslookup nginx-random
Server: 10.96.0.10
Address 1: 10.96.0.10 kube-dns.kube-system.svc.cluster.local

Name: nginx-random
Address 1: 10.111.37.132 nginx-random.default.svc.cluster.local
root@node-1:~# k exec -it busybox1 -- nslookup nginx-random > /opt/KUNW00601/service.dns
root@node-1:~# k exec -it busybox1 -- nslookup 10-244-2-16.default.pod
Server: 10.96.0.10
Address 1: 10.96.0.10 kube-dns.kube-system.svc.cluster.local

Name: 10-244-2-16.default.pod
Address 1: 10.244.2.16 10-244-2-16.nginx-random.default.svc.cluster.local
root@node-1:~# k exec -it busybox1 -- nslookup 10-244-2-16.default.pod > /opt/KUNW00601/pod.dns
```

NEW QUESTION 30

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubect! run busybox --image=busybox --restart=Never --rm -it -- env > envpod.yaml

NEW QUESTION 33

Set the node named ek8s-node-1 as unavailable and reschedule all the pods running on it.

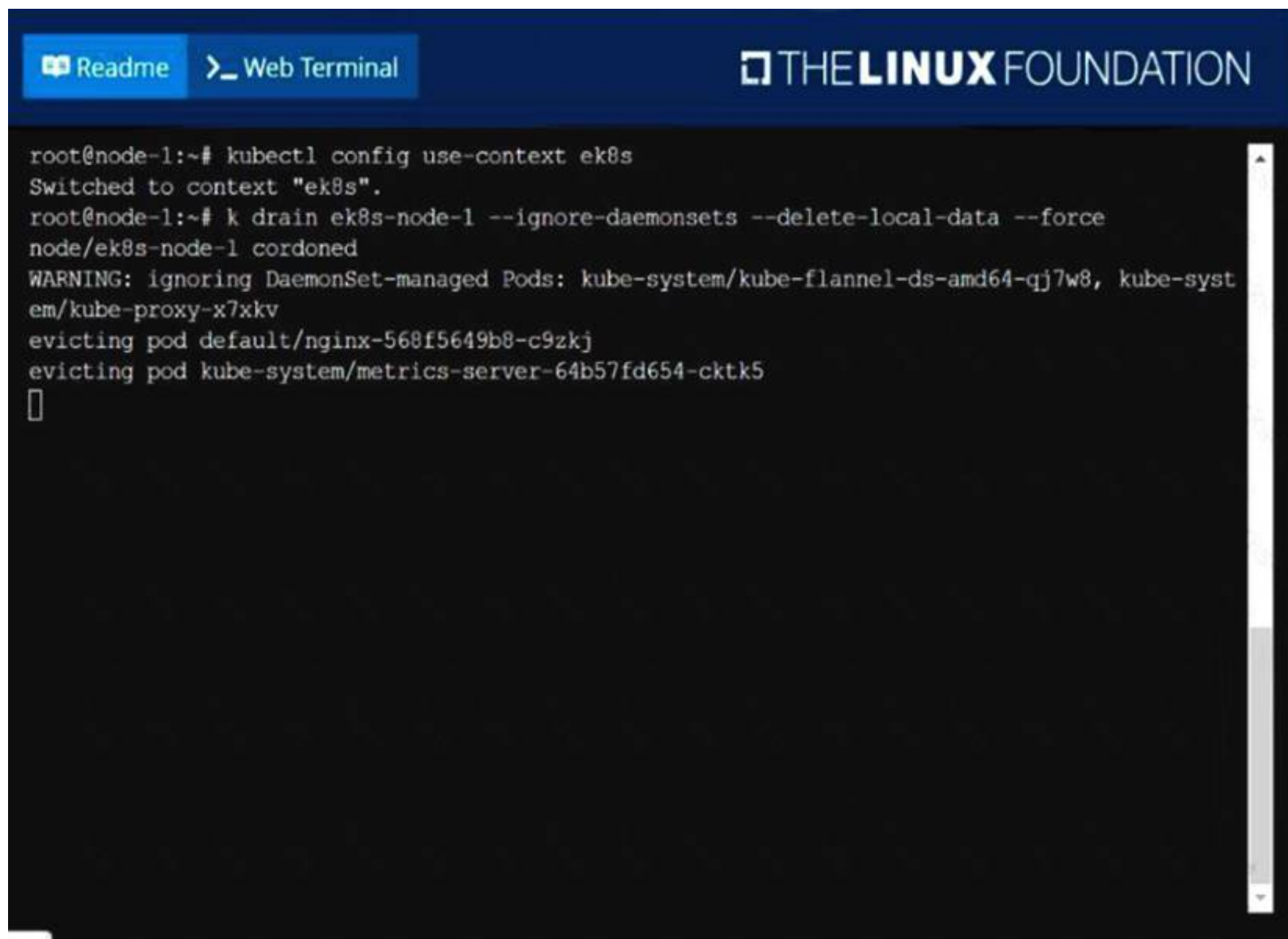
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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The screenshot shows a web terminal window with a dark background. At the top, there are two tabs: 'Readme' and 'Web Terminal'. The 'Web Terminal' tab is active. The terminal displays the following commands and output:

```
root@node-1:~# kubectl config use-context ek8s
Switched to context "ek8s".
root@node-1:~# k drain ek8s-node-1 --ignore-daemonsets --delete-local-data --force
node/ek8s-node-1 cordoned
WARNING: ignoring DaemonSet-managed Pods: kube-system/kube-flannel-ds-amd64-qj7w8, kube-system/kube-proxy-x7xkv
evicting pod default/nginx-568f5649b8-c9zkj
evicting pod kube-system/metrics-server-64b57fd654-cktk5
█
```

NEW QUESTION 34

Create a persistent volume with name app-data, of capacity 2Gi and access mode ReadWriteMany. The type of volume is hostPath and its location is /srv/app-data.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution
Persistent Volume
A persistent volume is a piece of storage in a Kubernetes cluster. PersistentVolumes are a cluster-level resource like nodes, which don't belong to any namespace. It is provisioned by the administrator and has a particular file size. This way, a developer deploying their app on Kubernetes need not know the underlying infrastructure. When the developer needs a certain amount of persistent storage for their application, the system administrator configures the cluster so that they consume the PersistentVolume provisioned in an easy way.
Creating Persistent Volume
kind: PersistentVolumeapiVersion: v1metadata: name:app-dataspec: capacity: # defines the capacity of PV we are creating storage: 2Gi #the amount of storage we are tying to claim accessModes: # defines the rights of the volume we are creating - ReadWriteMany hostPath: path: "/srv/app-data" # path to which we are creating the volume
Challenge
➤ Create a Persistent Volume named app-data, with access mode ReadWriteMany, storage classname shared, 2Gi of storage capacity and the host path /srv/app-data.

```
"app-data.yaml" 12L, 194C
```

```
njerry191@cloudshell:~ (extreme-clone-265411)$ kubectl create -f pv.yaml
persistentvolume/pv created
```

```
njerry191@cloudshell:~ (extreme-clone-265411)$ kubectl get pv
```

NAME	CAPACITY	ACCESS MODES	RECLAIM POLICY	STATUS	CLAIM	STORAGECLASS	REASON	AGE
app-data	2Gi	RWX	Retain	Available		shared		31s

Challenge

* 3. View the pvc Image for post

```
njerry191@cloudshell:~ (extreme-clone-265411)$ kubectl get pvc
```

NAME	STATUS	VOLUME	CAPACITY	ACCESS MODES	STORAGECLASS
pv	Bound	pv	512m	RWX	shared

Image for post

```
njerry191@cloudshell:~ (extreme-clone-265411)$ kubectl get pv
NAME          CAPACITY  ACCESS MODES  RECLAIM POLICY  STATUS  CLAIM          STORAGECLASS  REASON  AGE
pv            512m      RWX           Retain          Bound   default/pv     shared       16m
```

Our status has now changed from available to bound.

* 5. Create a new pod named myapp with image nginx that will be used to Mount the Persistent Volume Claim with the path /var/app/config.

Mounting a Claim

```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  name: app-data-spec
spec:
  volumes:
  - name: configpvc
    persistentVolumeClaim:
      claimName: app-data
```

NEW QUESTION 36

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).

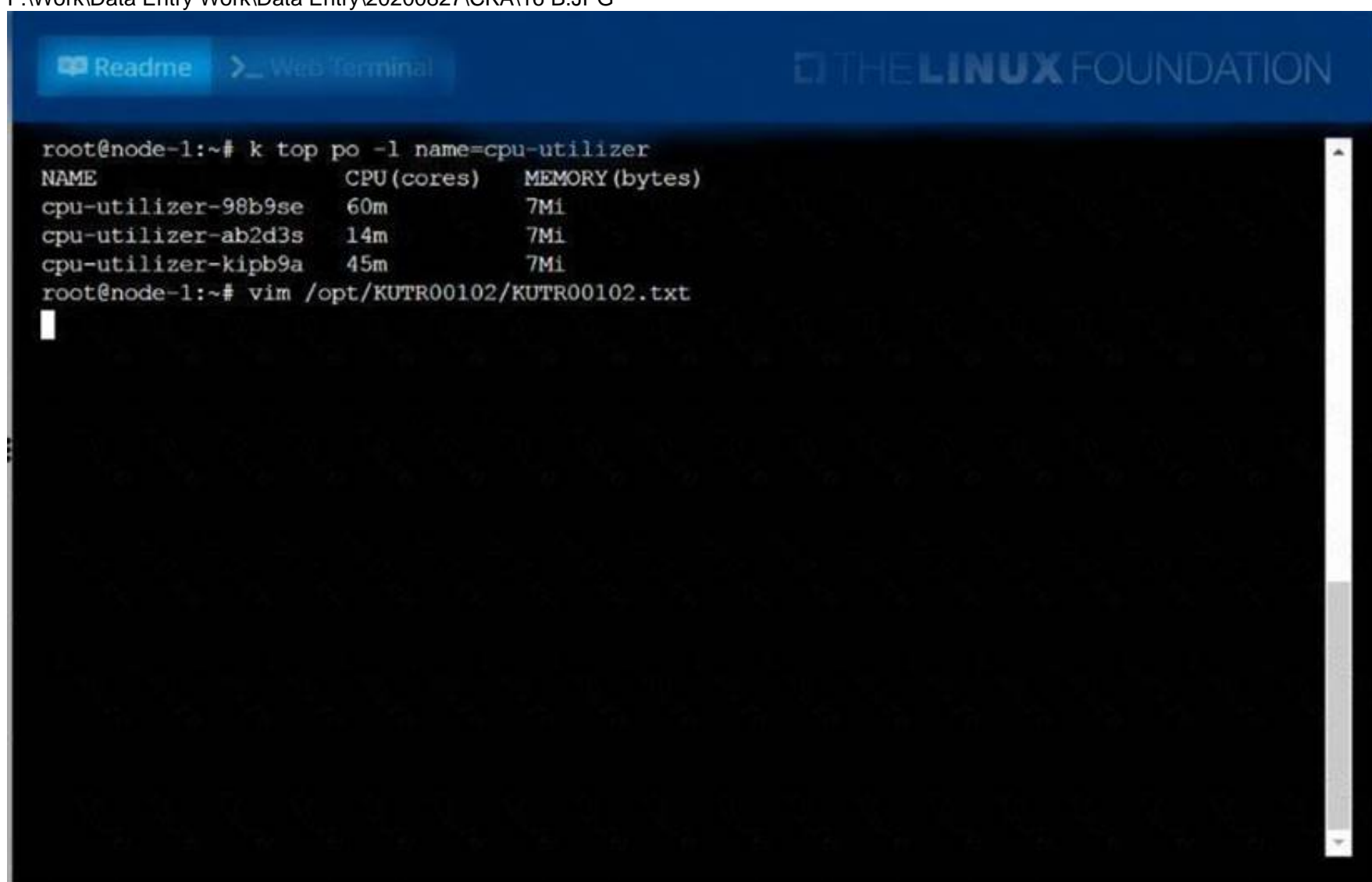
- A. Mastered
- B. Not Mastered

Answer: A

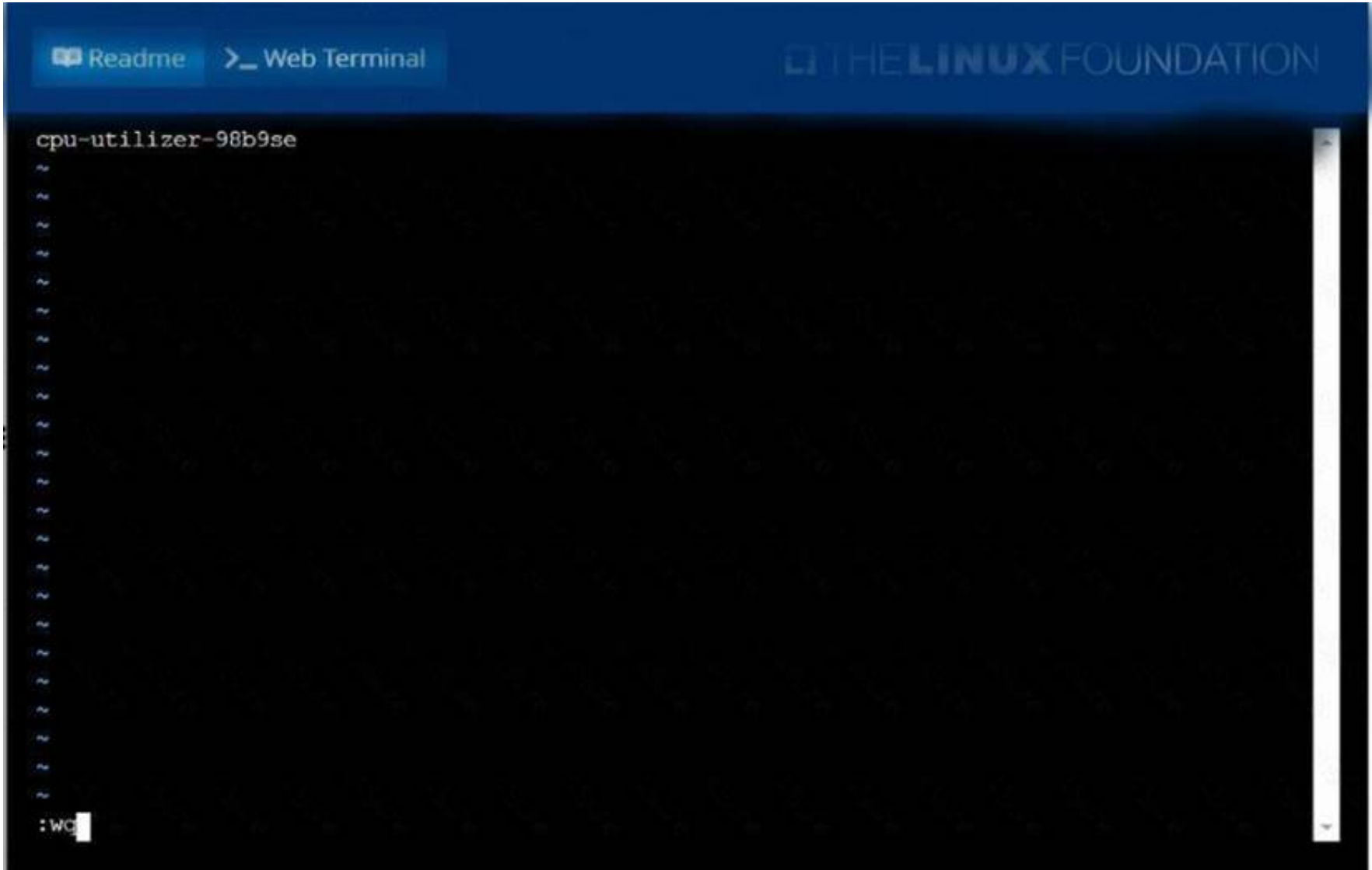
Explanation:

solution

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



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NEW QUESTION 40

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 43

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 48

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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```
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

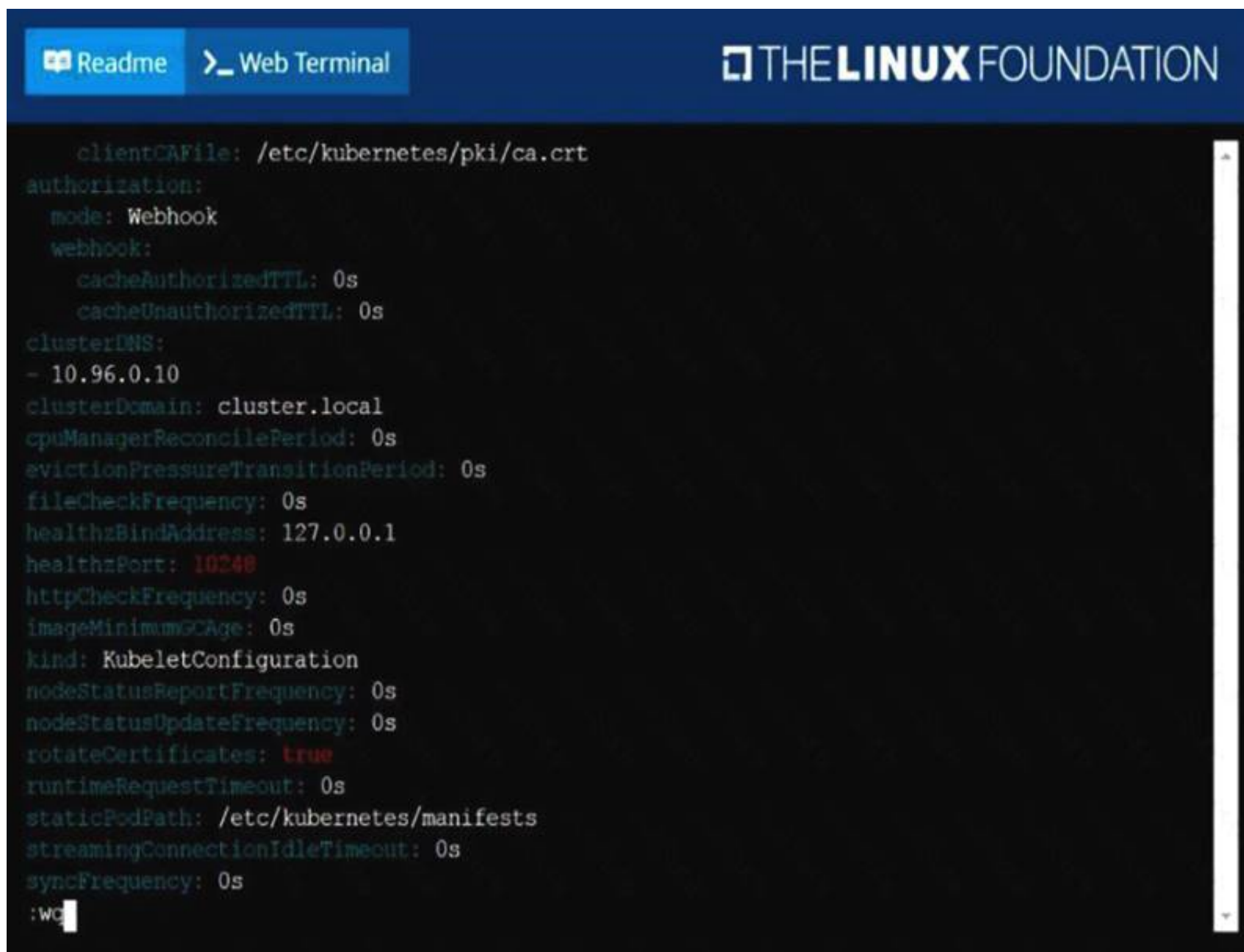
   https://microk8s.io/ has docs and details.

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
```

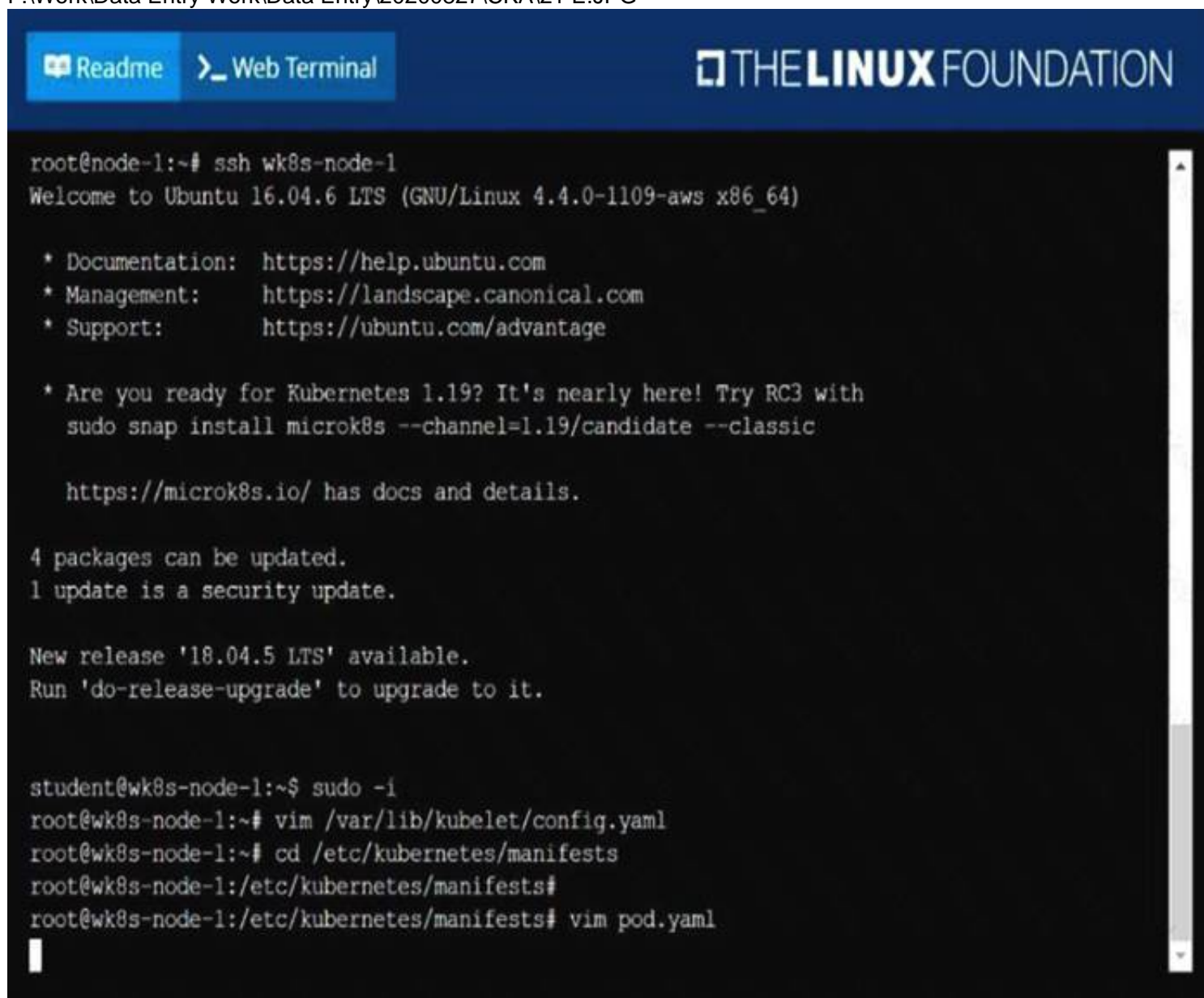
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The screenshot shows a web terminal interface with a dark background. At the top, there is a blue header bar with a "Readme" button and a "Web Terminal" button. The "THE LINUX FOUNDATION" logo is on the right. The terminal displays the following configuration:

```
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 web terminal interface 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 displays the following output and commands:

```
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

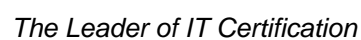
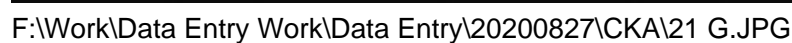
https://microk8s.io/ has docs and details.

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
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
```

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NEW QUESTION 52

Score: 4%



Context

You have been asked to create a new ClusterRole for a deployment pipeline and bind it to a specific ServiceAccount scoped to a specific namespace.

Task

Create a new ClusterRole named deployment-clusterrole, which only allows to create the following resource types:

- Deployment
- StatefulSet
- DaemonSet

Create a new ServiceAccount named cicd-token in the existing namespace app-team1.

Bind the new ClusterRole deployment-clusterrole to the new ServiceAccount cicd-token, limited to the namespace app-team1.

- A. Mastered
- B. Not Mastered

Answer: A**Explanation:**

Solution:

Task should be complete on node k8s -1 master, 2 worker for this connect use command

```
[student@node-1] > ssh k8s
```

```
kubectl create clusterrole deployment-clusterrole --verb=create
```

```
--resource=deployments,statefulsets,daemonsets
```

```
kubectl create serviceaccount cicd-token --namespace=app-team1
```

```
kubectl create rolebinding deployment-clusterrole --clusterrole=deployment-clusterrole
```

```
--serviceaccount=default:cicd-token --namespace=app-team1
```

NEW QUESTION 56

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