

## Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

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



### 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:

```
kubectrl run nginx --image=nginx --restart=Never --env=var1=value1
# then
kubectrl exec -it nginx -- env
# or
kubectrl exec -it nginx -- sh -c 'echo $var1'
# or
kubectrl describe po nginx | grep value1
```

### NEW QUESTION 2

Create a pod that echo ??hello world?? and then exists. Have the pod deleted automatically when it??s completed

- A. Mastered
- B. Not Mastered

**Answer:** A

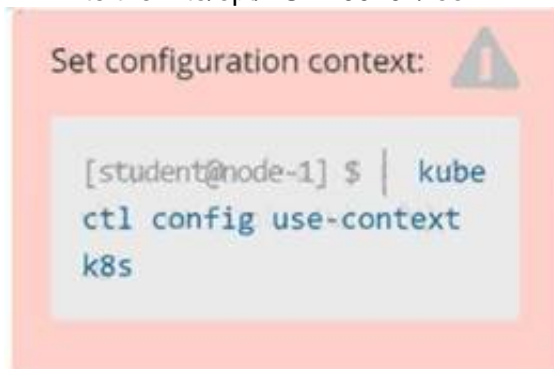
#### Explanation:

```
kubectrl run busybox --image=busybox -it --rm --restart=Never -
/bin/sh -c 'echo hello world'
kubectrl get po # You shouldn't see pod with the name "busybox"
```

### NEW QUESTION 3

Monitor the logs of pod foo and:

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

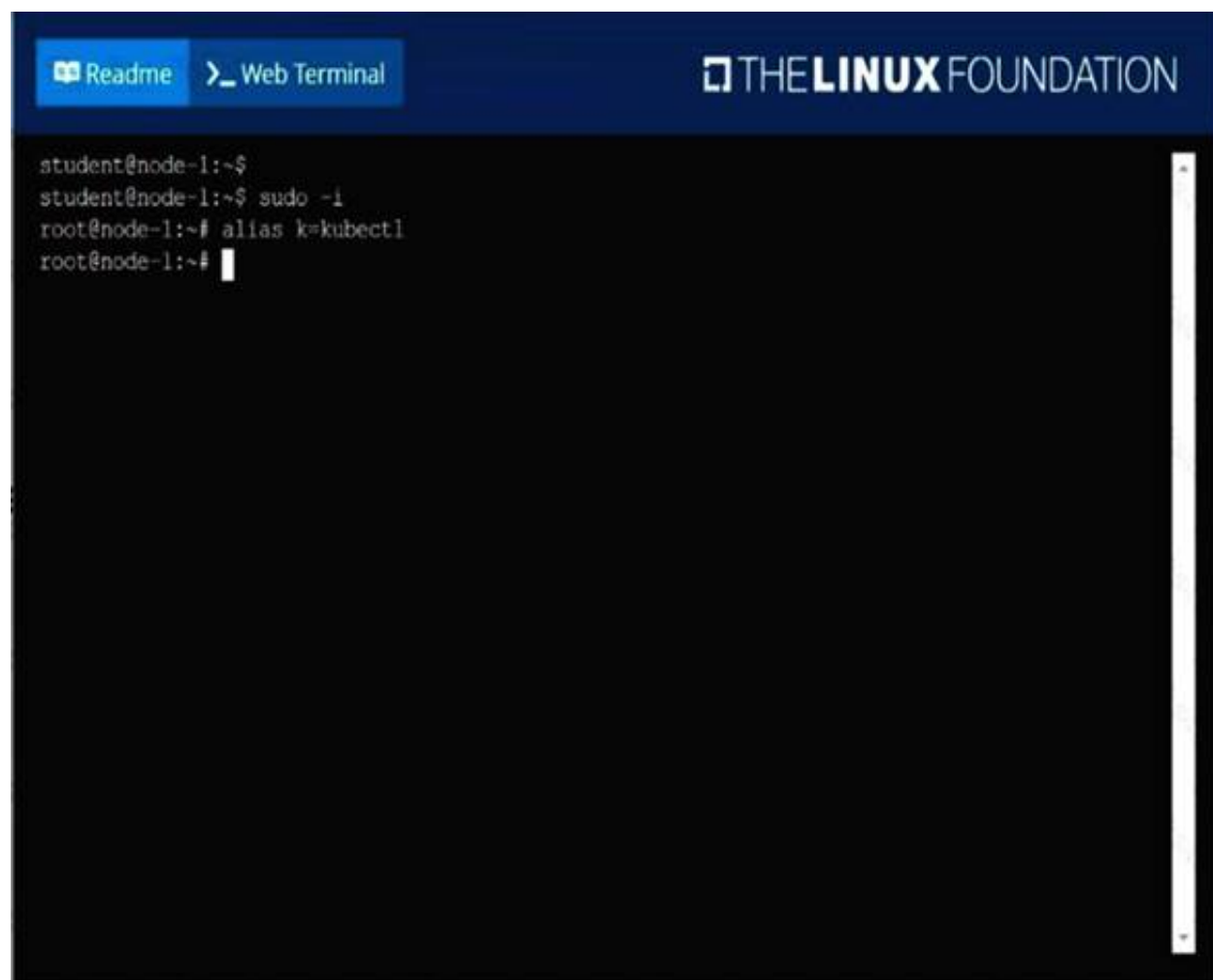


- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

solution  
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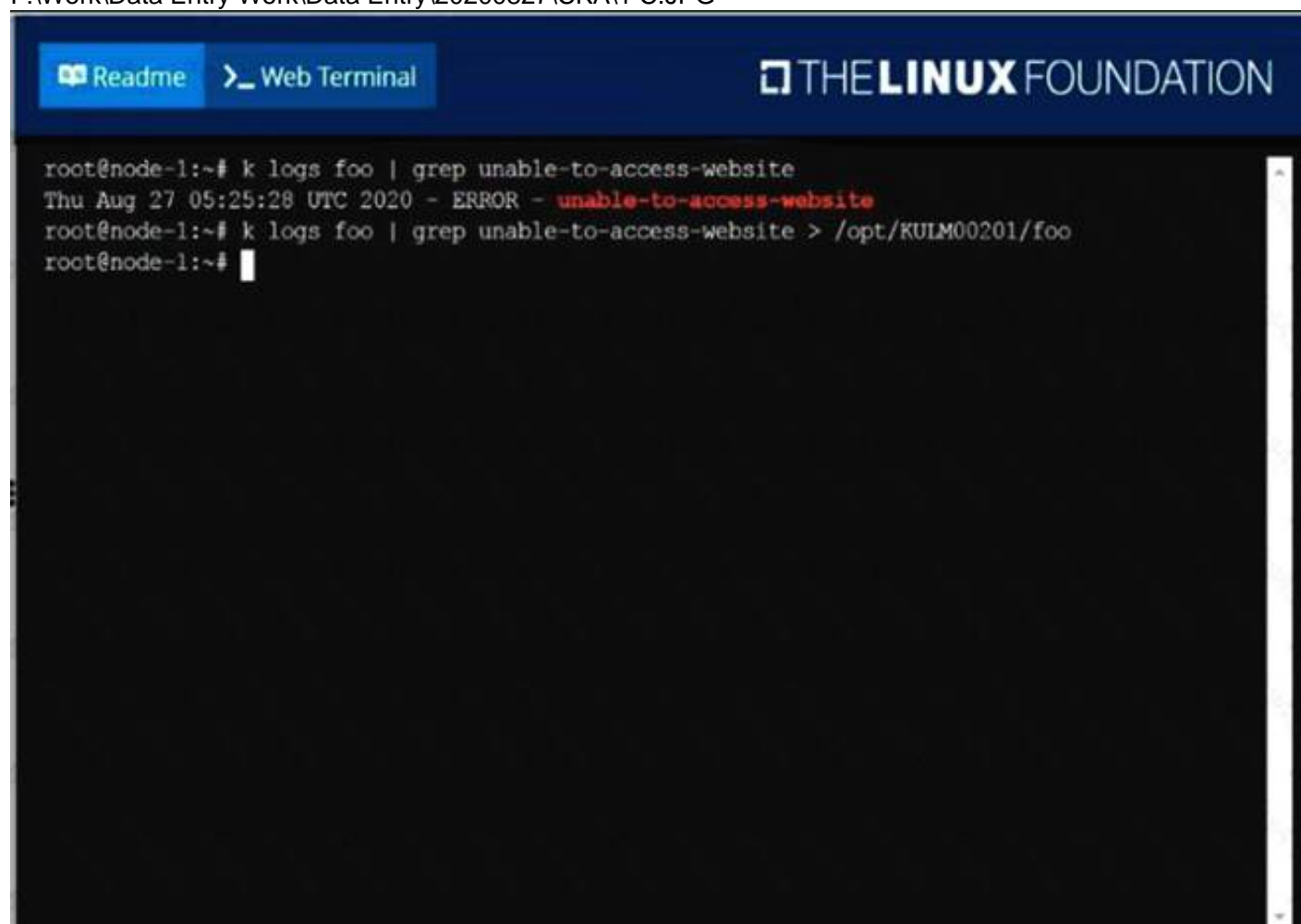


```

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 4

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 5

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
kubectrl run busybox --image=busybox --restart=Never ?C-rm -it -- env > envpod.yaml
```

**NEW QUESTION 6**

List the nginx pod with custom columns POD\_NAME and POD\_STATUS

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
kubectrl get po -o=custom-columns="POD_NAME:.metadata.name, POD_STATUS:.status.containerStatuses[].state"
```

**NEW QUESTION 7**

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.

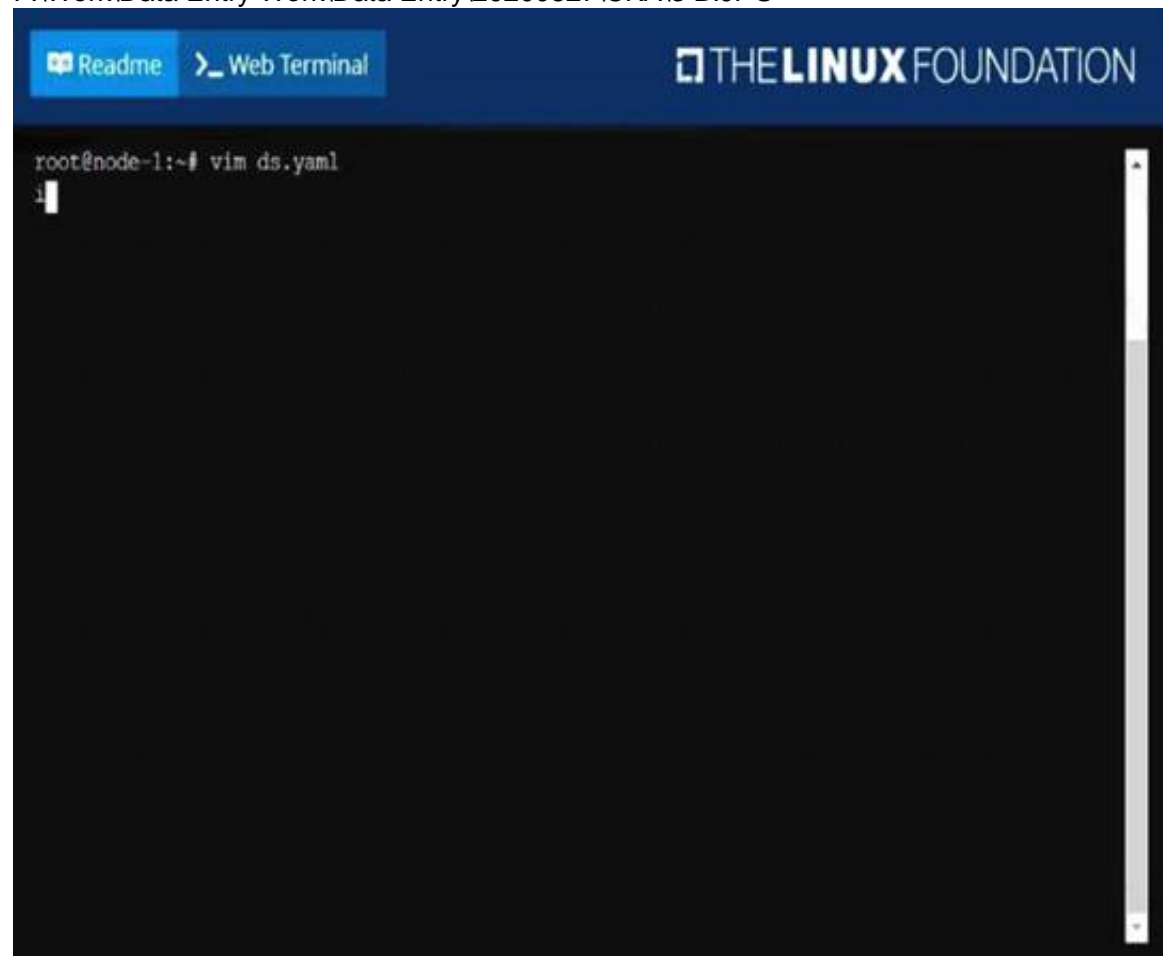
- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution

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### NEW QUESTION 8

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
```

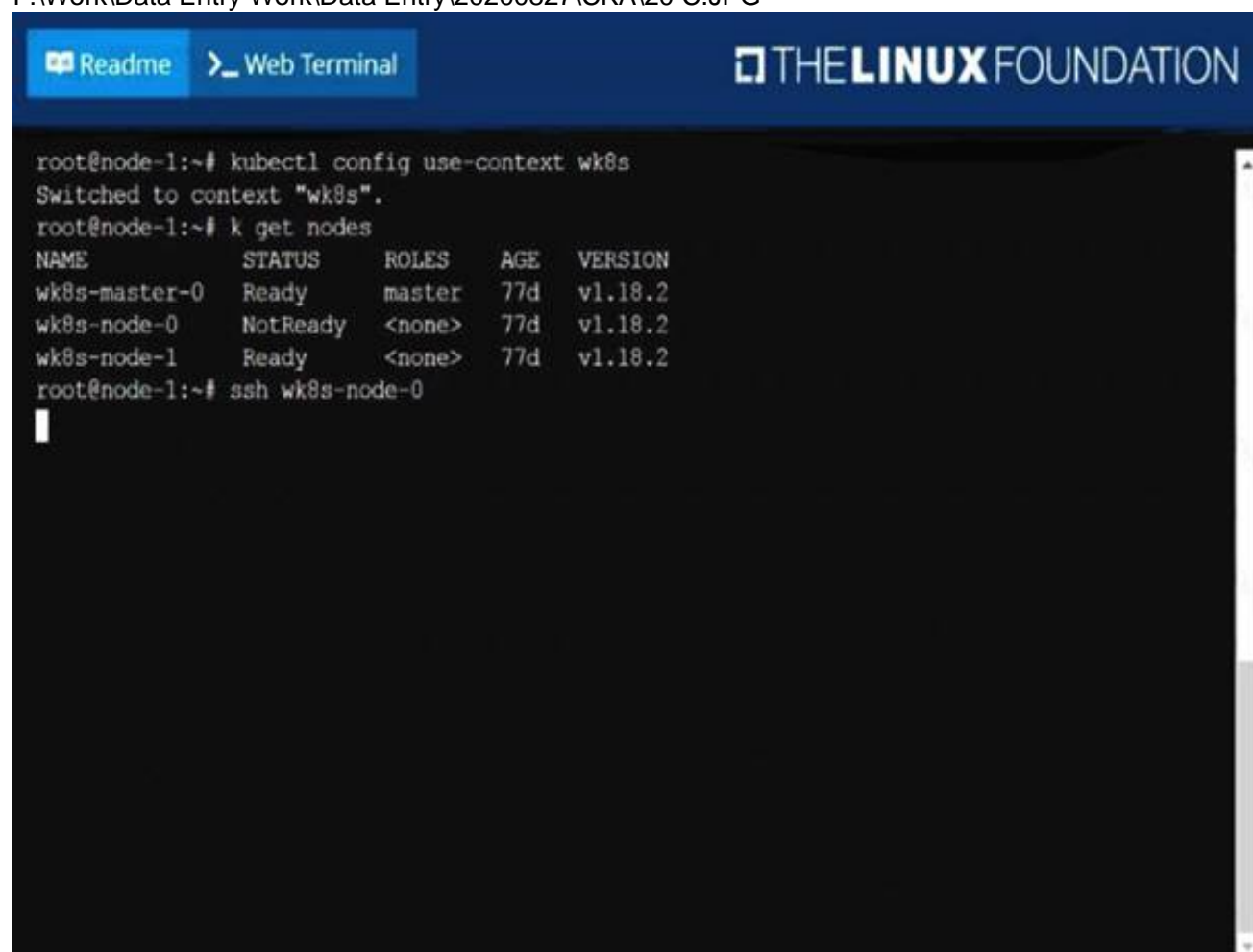
- A. Mastered
- B. Not Mastered

**Answer: A**

### Explanation:

solution

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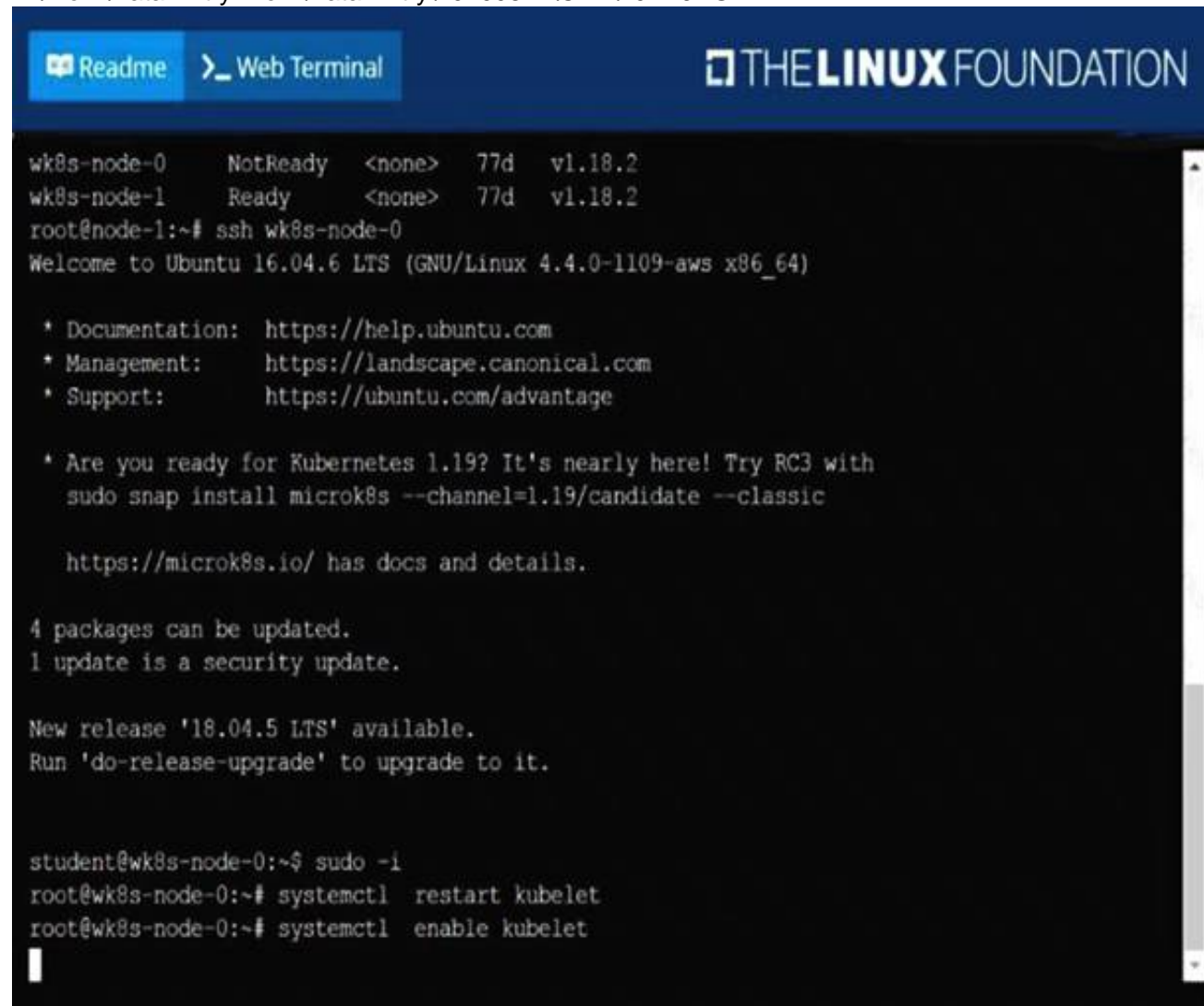
```

Readme  Web Terminal  THE LINUX FOUNDATION

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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```

Readme  Web Terminal  THE LINUX FOUNDATION

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.

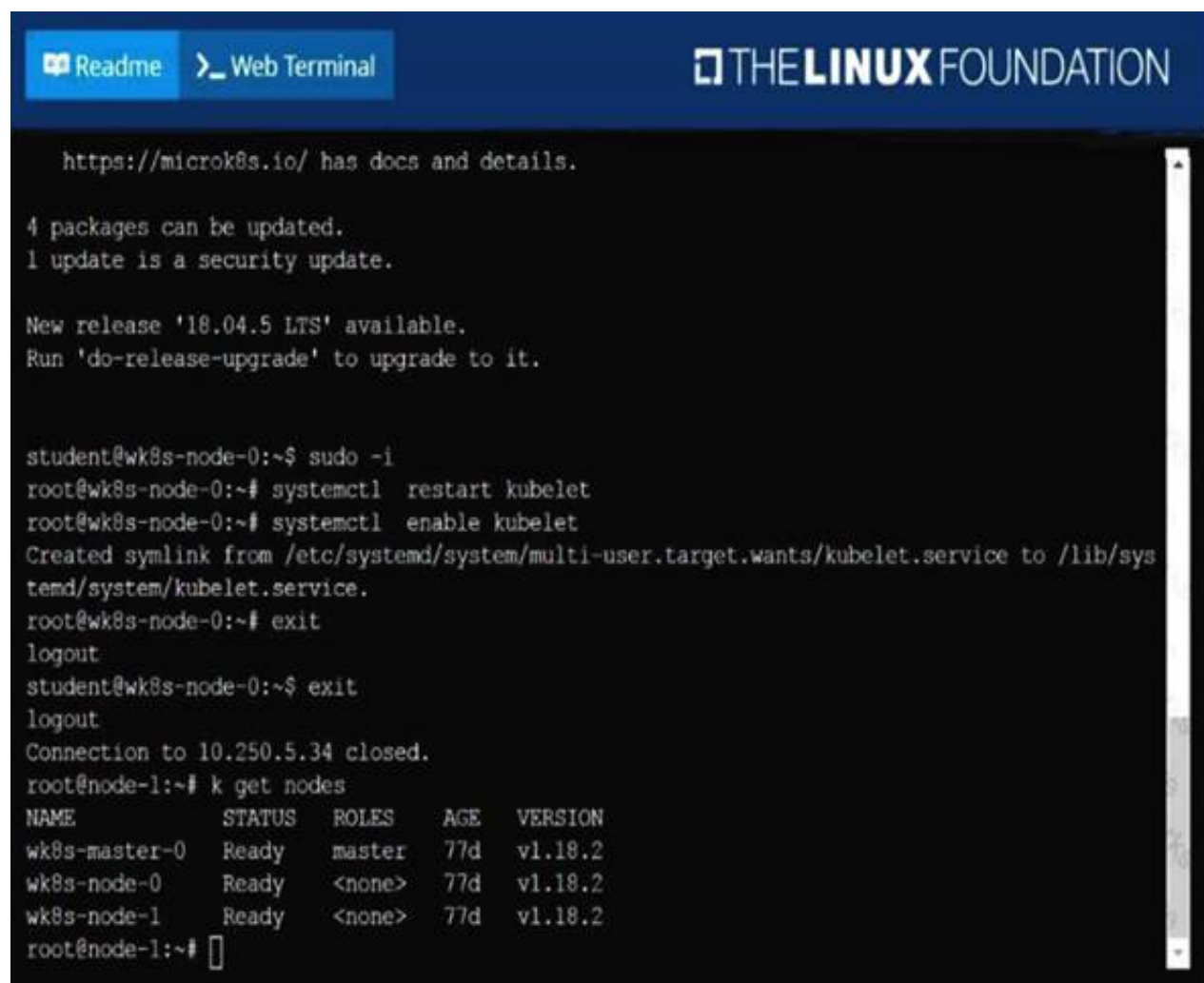
4 packages can be updated.
1 update is a security update.

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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```

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 9

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 10

Create a file:

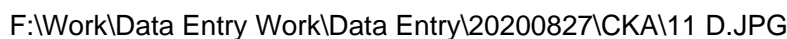
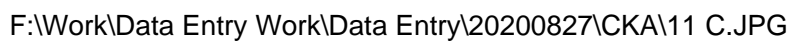
/opt/KUCC00302/kucc00302.txt that lists all pods that implement service baz in namespace development.  
The format of the file should be one pod name per line.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

solution  
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- > 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

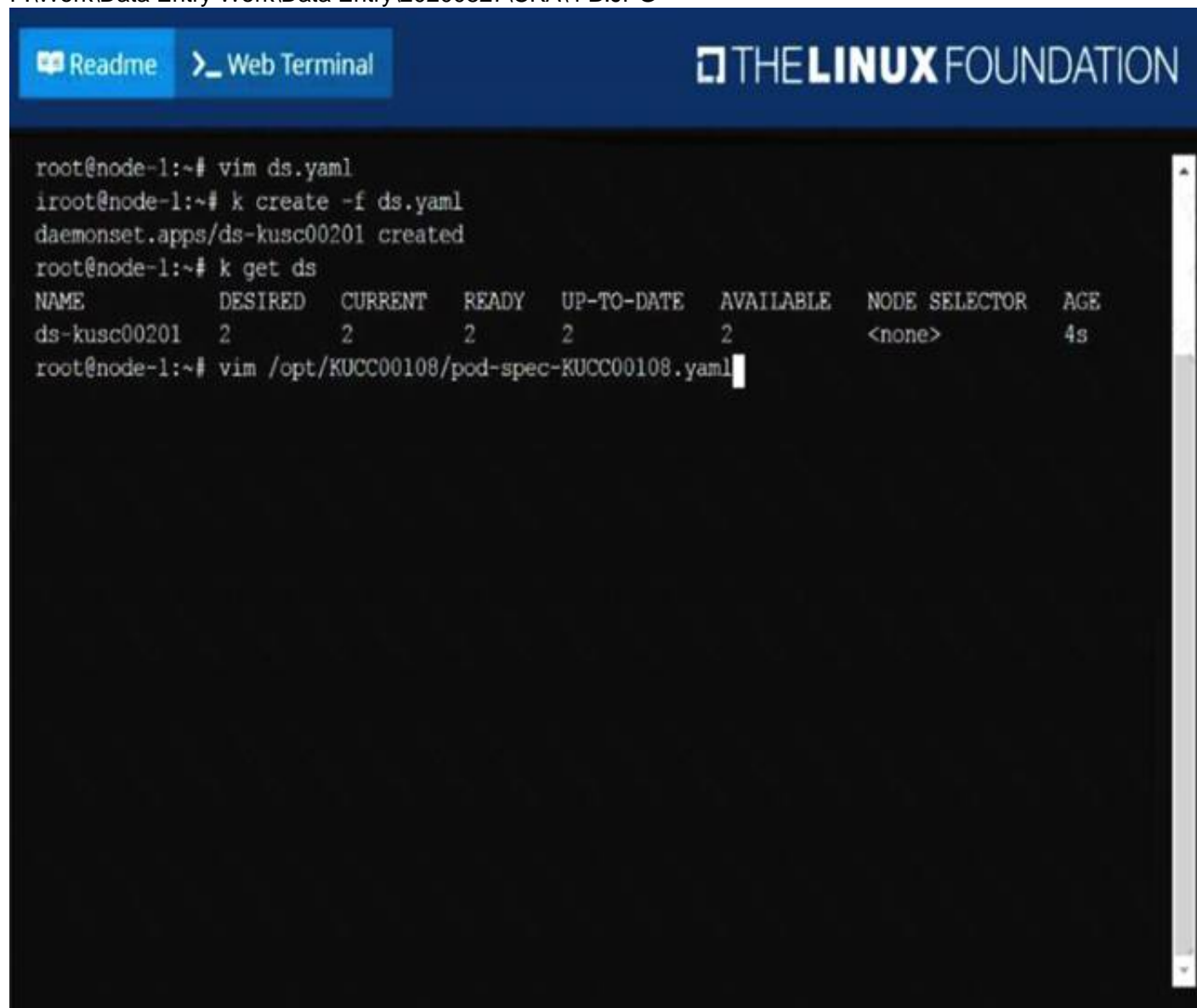
A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

solution

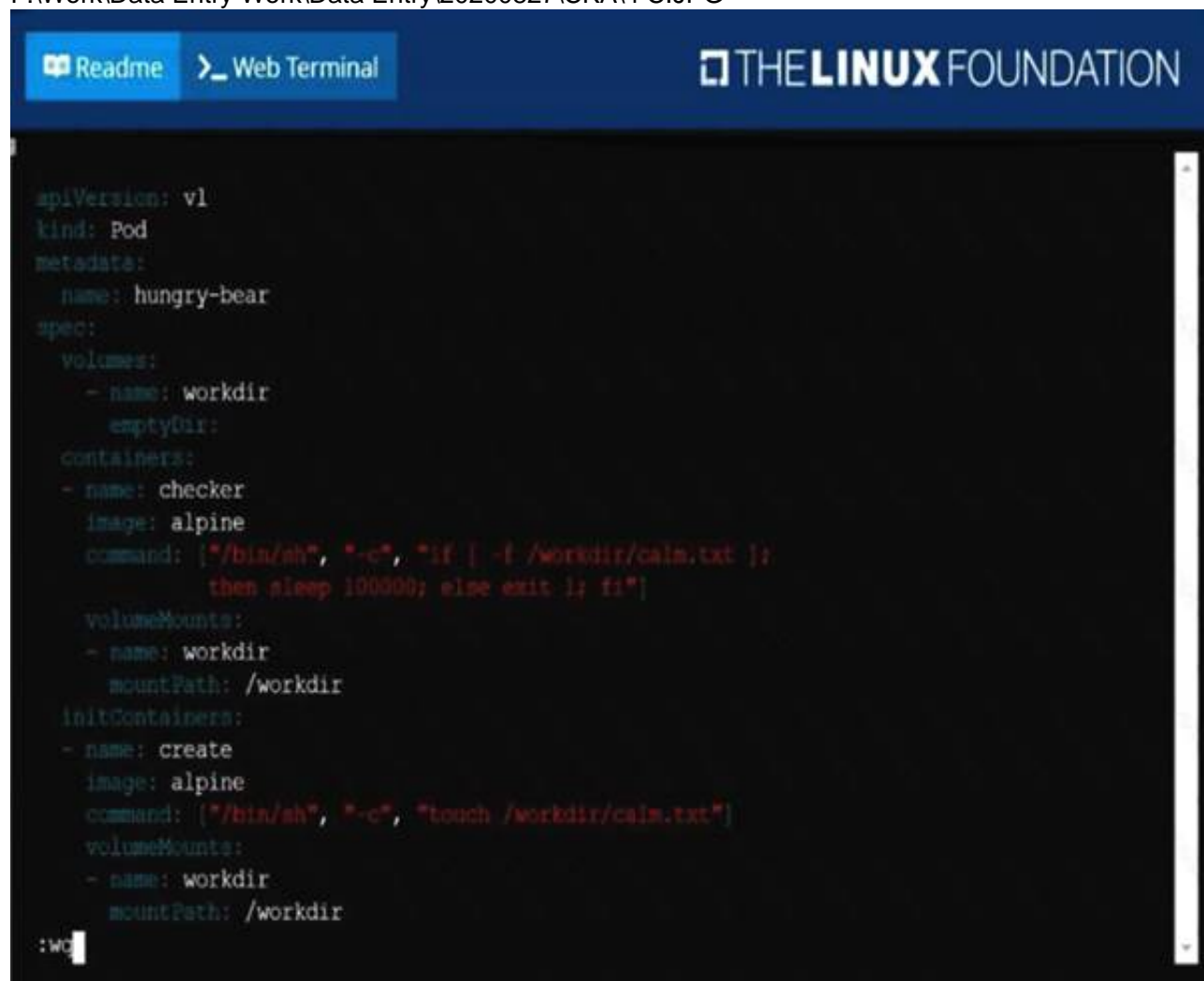
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The screenshot shows a web terminal interface with a dark background. At the top, there are two tabs: 'Readme' and 'Web Terminal'. The 'Web Terminal' tab is active, showing a terminal session. The terminal output is as follows:

```
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
```

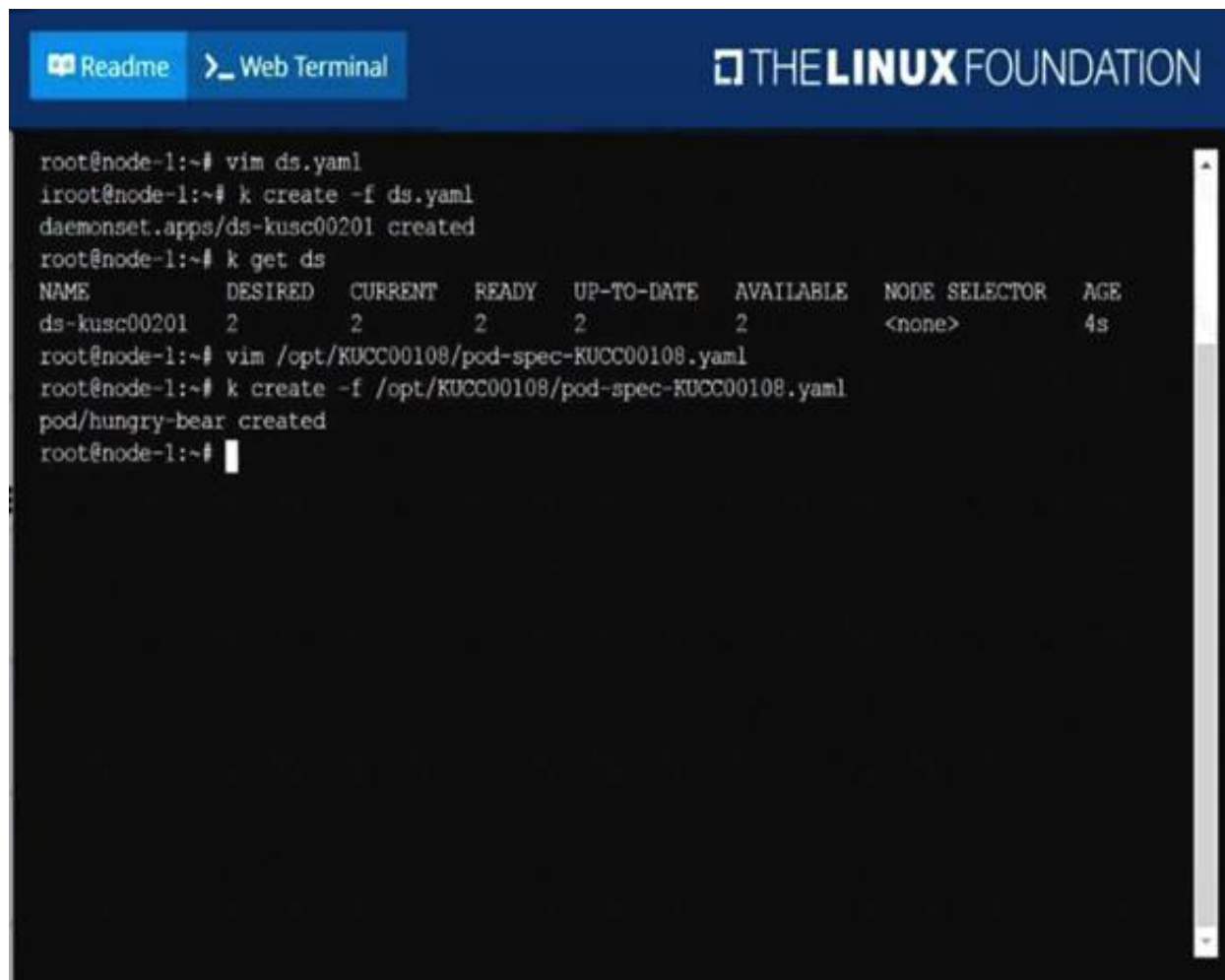
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The screenshot shows a web terminal interface with a dark background. At the top, there are two tabs: 'Readme' and 'Web Terminal'. The 'Web Terminal' tab is active, showing the contents of a pod specification file. The terminal output is as follows:

```
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
```

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```

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

```

### NEW QUESTION 21

For this item, you will have to ssh to the node `ik8s-master-0` and `ik8s-node-0` and complete all tasks on these nodes. Ensure that you return to the base node (hostname: `node-1`) when you have completed this item.

Context

As an administrator of a small development team, you have been asked to set up a Kubernetes cluster to test the viability of a new application.

Task

You must use `kubeadm` to perform this task. Any `kubeadm` invocations will require the use of the

`--ignore-preflight-errors=all` option.

- > Configure the node `ik8s-master-0` as a master node. .
- > Join the node `ik8s-node-0` to the cluster.

- A. Mastered
- B. Not Mastered

**Answer: A**

### Explanation:

solution

You must use the `kubeadm` configuration file located at `/etc/kubeadm.conf` when initializing your cluster.

You may use any CNI plugin to complete this task, but if you don't have your favourite CNI plugin's manifest URL at hand, Calico is one popular option: <https://docs.projectcalico.org/v3.14/manifests/calico.yaml>

Docker is already installed on both nodes and `apt` has been configured so that you can install the required tools.

### NEW QUESTION 25

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 30

Schedule a pod as follows:

- > Name: nginx-kusc00101
- > Image: nginx
- > Node selector: disk=ssd

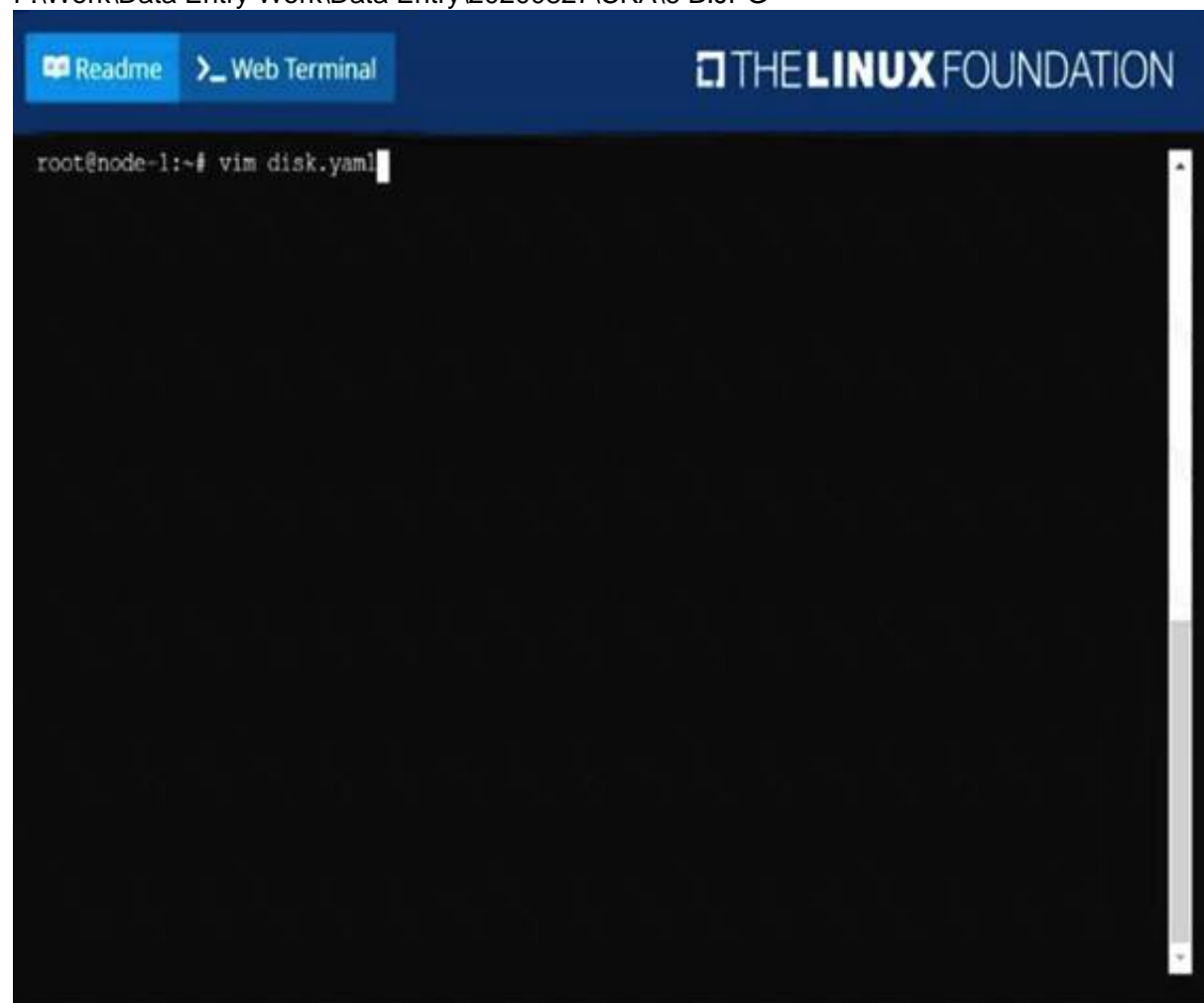
- A. Mastered
- B. Not Mastered

**Answer:** A

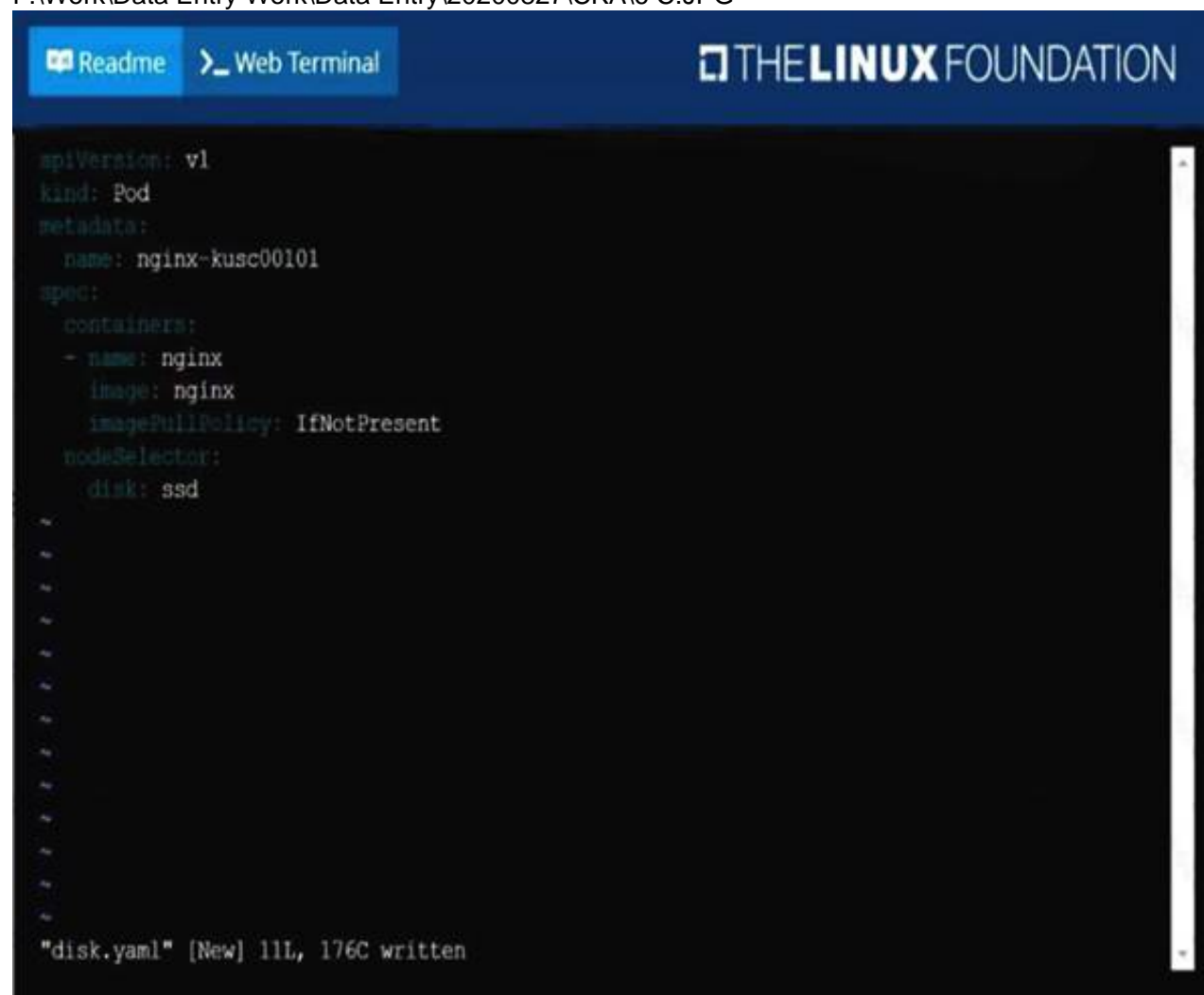
### Explanation:

solution

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ReadmeWeb Terminal

THELINUXFOUNDATION

```
root@node-1:~# vim disk.yaml
root@node-1:~# k create -f disk.yaml
pod/nginx-kusc00101 created
root@node-1:~# k get po
NAME                READY   STATUS    RESTARTS   AGE
cpu-utilizer-98b9se 1/1     Running   0           5h59m
cpu-utilizer-ab2d3s 1/1     Running   0           5h59m
cpu-utilizer-kipb9a 1/1     Running   0           5h59m
ds-kusc00201-2r2k9   1/1     Running   0           13m
ds-kusc00201-hzm9q   1/1     Running   0           13m
foo                  1/1     Running   0           6h1m
front-end            1/1     Running   0           6h1m
hungry-bear          1/1     Running   0           9m37s
kucc8                3/3     Running   0           7m37s
nginx-kusc00101      1/1     Running   0           9s
webserver-84c55967f4-qzjcv 1/1     Running   0           6h16m
webserver-84c55967f4-t479l 1/1     Running   0           6h16m
root@node-1:~#
```

NEW QUESTION 31

.....



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