



Linux-Foundation

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

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

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 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 ?Ci
```

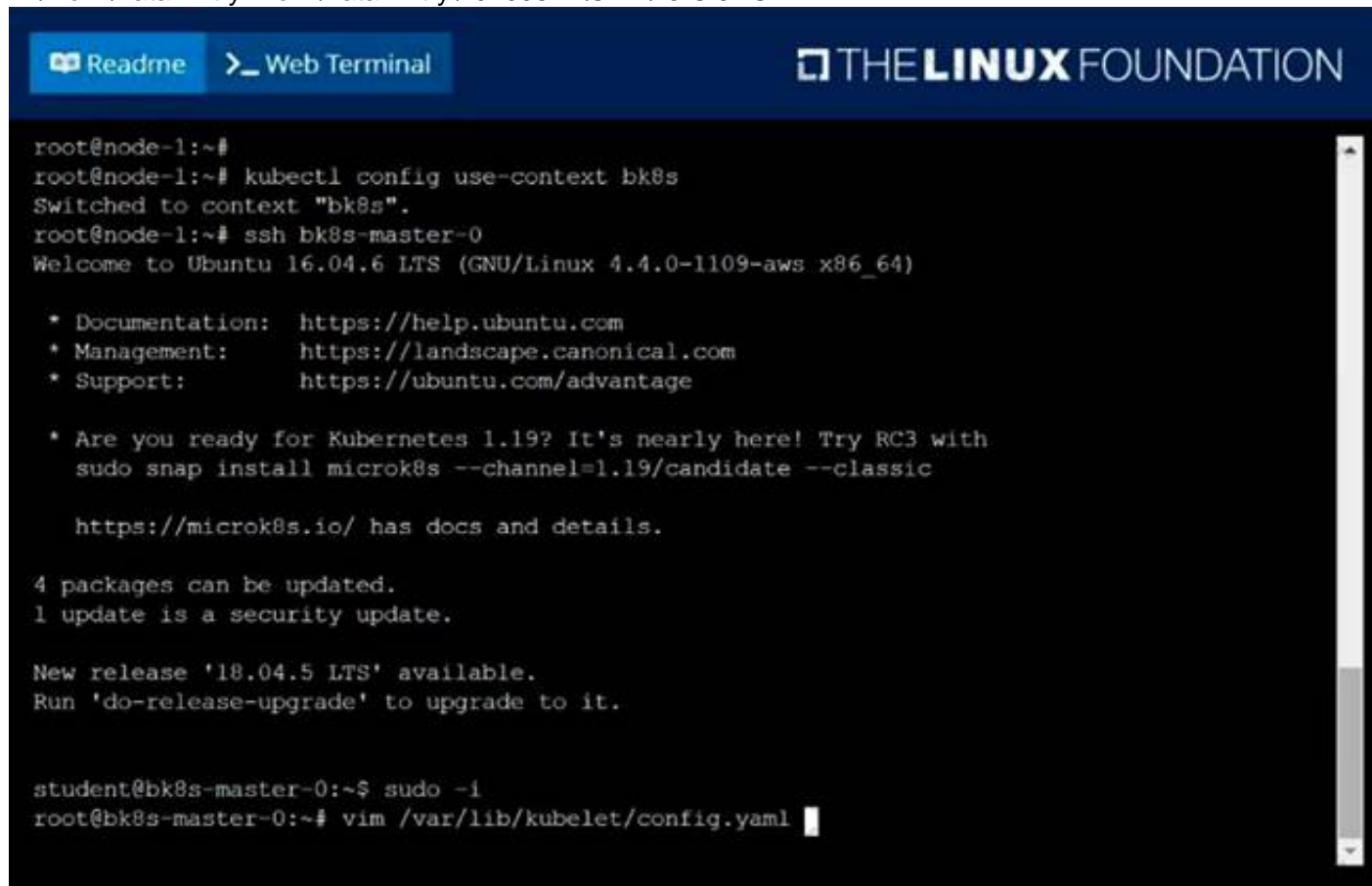
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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The screenshot shows a terminal window with a dark blue header bar containing 'Readme', 'Web Terminal', and 'THE LINUX FOUNDATION' logo. The terminal output shows a user switching to the 'bk8s' context and SSHing into 'bk8s-master-0'. The Ubuntu login banner is displayed, followed by system updates and a new release notification. The user then runs 'sudo -i' to become root and starts editing the kubelet configuration file with 'vim /var/lib/kubelet/config.yaml'.

```
root@node-1:~#
root@node-1:~# kubectl config use-context bk8s
Switched to context "bk8s".
root@node-1:~# ssh bk8s-master-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.

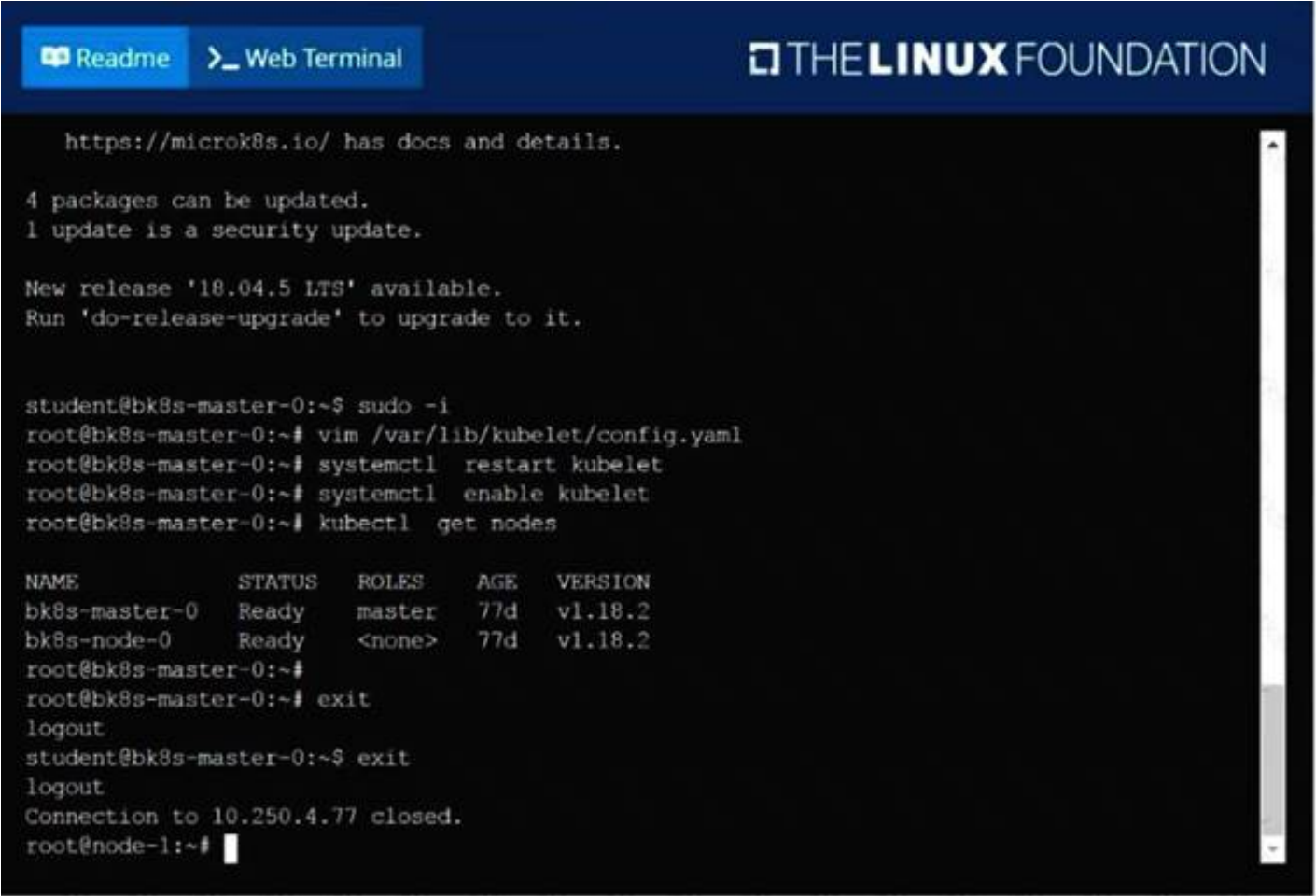
New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

student@bk8s-master-0:~$ sudo -i
root@bk8s-master-0:~# vim /var/lib/kubelet/config.yaml
```

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NEW QUESTION 3

Create a pod as follows:

- > Name:mongo
- > Using Image:mongo
- > In anew Kubernetes namespacenamed:my-website

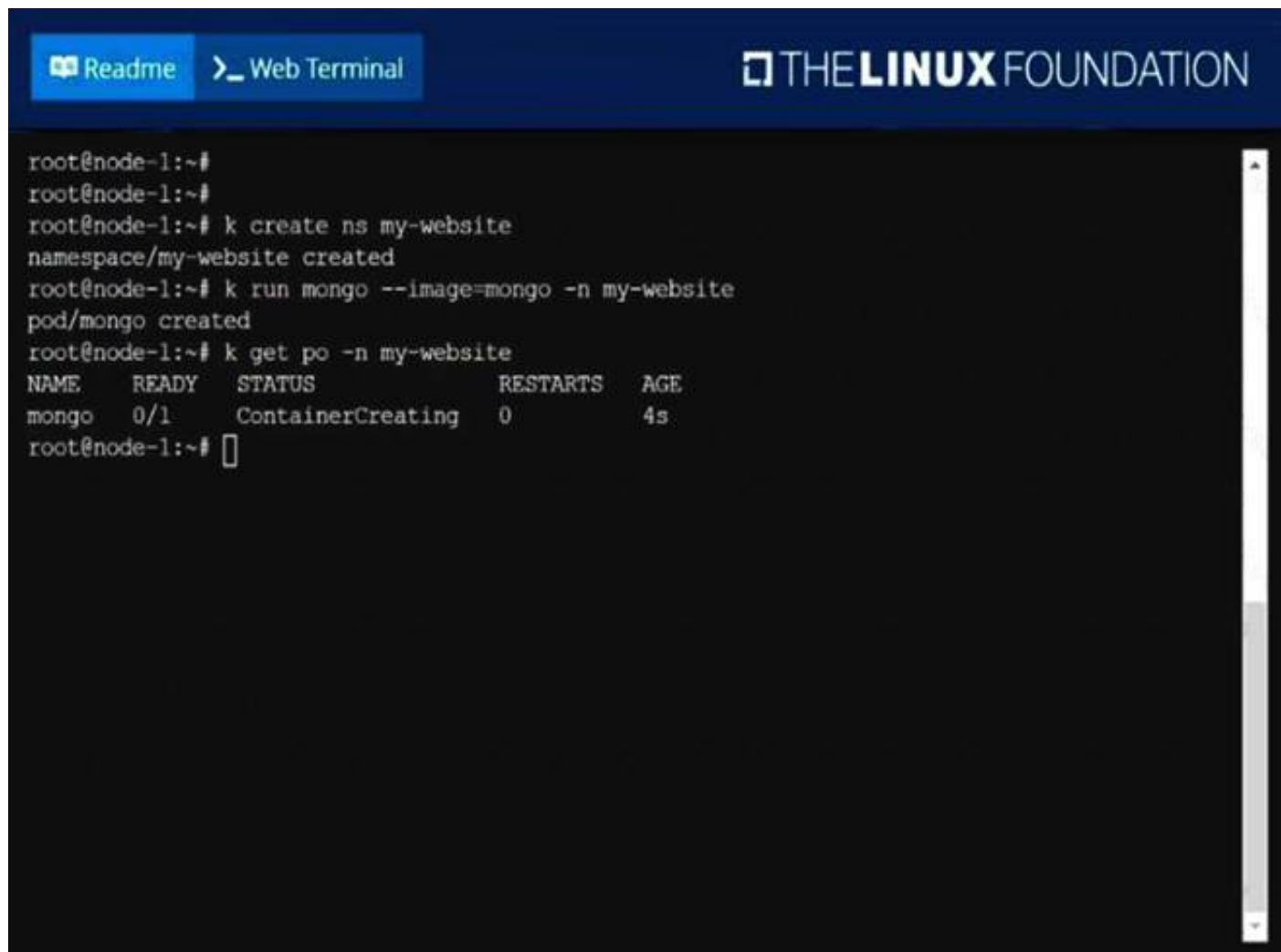
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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```
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 4

Create a deployment as follows:

- > Name:nginx-app
- > Using containernginxwithversion 1.11.10-alpine
- > The deployment should contain3replicas

Next, deploy the application with newversion1.11.13-alpine, byperforming a rolling update.

Finally, rollback that update to theprevious version1.11.10-alpine.

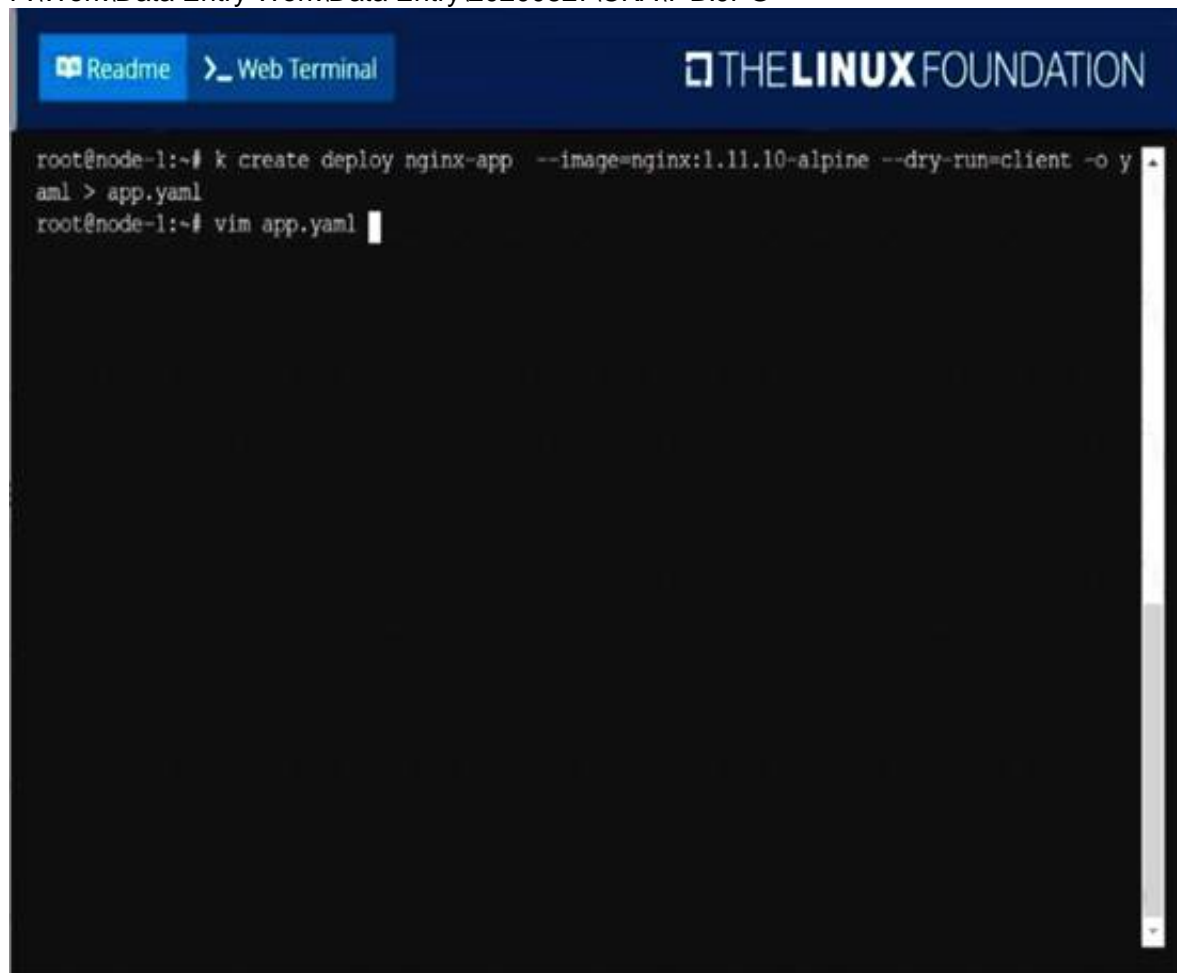
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

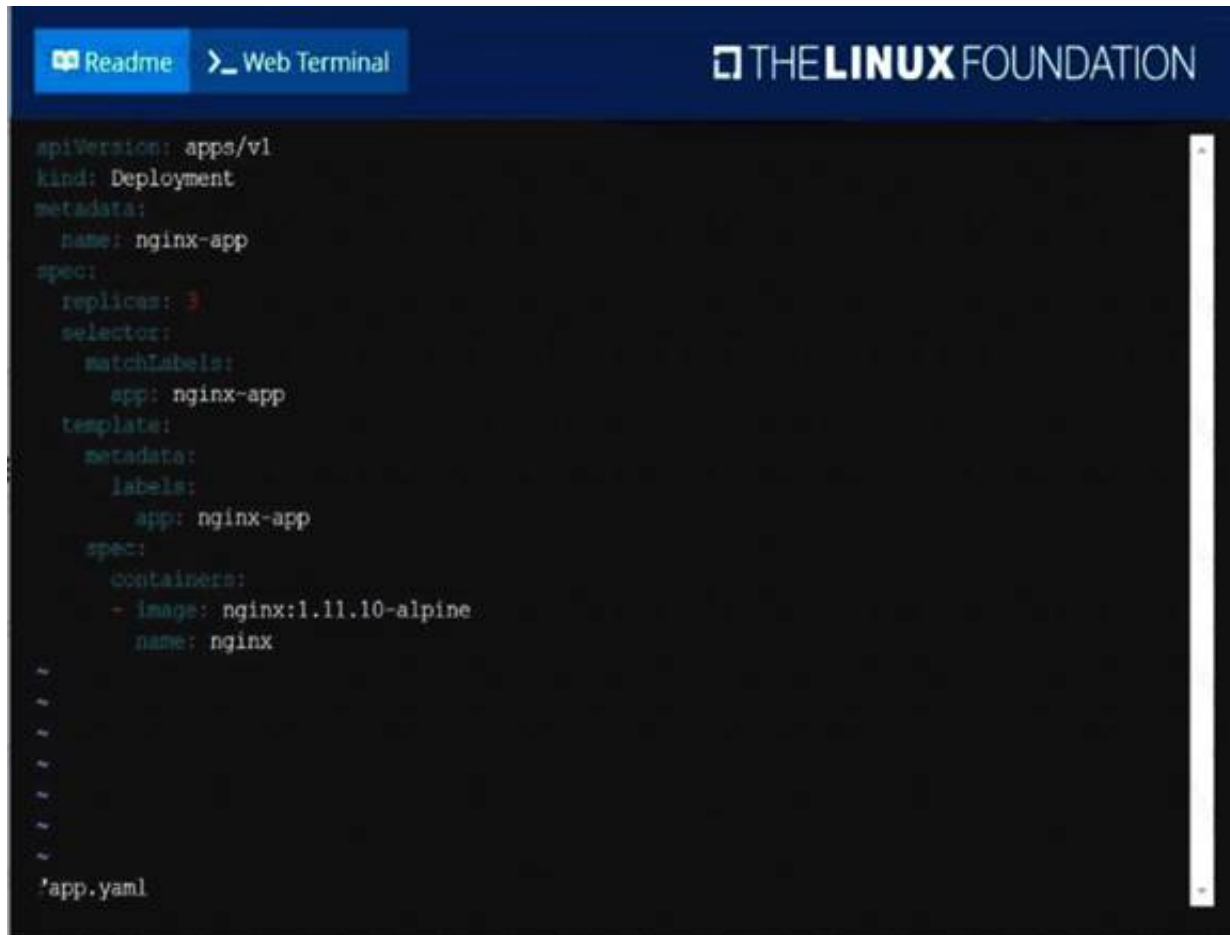
solution

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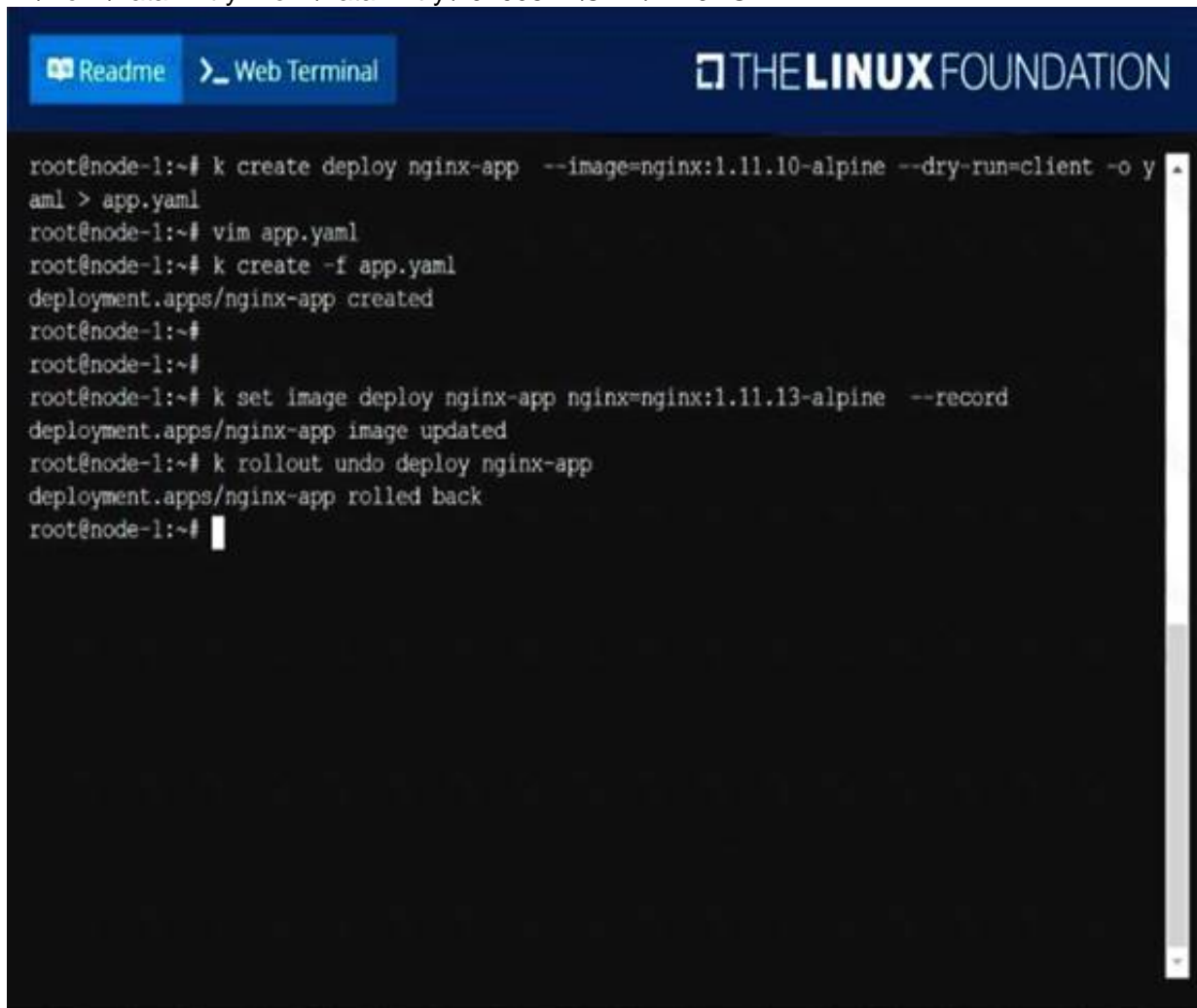
```
root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o y  
aml > app.yaml  
root@node-1:~# vim app.yaml
```

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```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx-app
  template:
    metadata:
      labels:
        app: nginx-app
    spec:
      containers:
      - image: nginx:1.11.10-alpine
        name: nginx
```

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```
root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o y
aml > app.yaml
root@node-1:~# vim app.yaml
root@node-1:~# k create -f app.yaml
deployment.apps/nginx-app created
root@node-1:~#
root@node-1:~#
root@node-1:~# k set image deploy nginx-app nginx=nginx:1.11.13-alpine --record
deployment.apps/nginx-app image updated
root@node-1:~# k rollout undo deploy nginx-app
deployment.apps/nginx-app rolled back
root@node-1:~#
```

NEW QUESTION 5

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 6

List pod logs named ??frontend?? and search for the pattern ??started?? and write it to a file ??/opt/error-logs??

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Kubectl logs frontend | grep -i ??started?? > /opt/error-logs

NEW QUESTION 7

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 8

Configure the kubelet systemd-managed service, on the node labelled with name `wk8s-node-1`, to launch a pod containing a single container of `httpd` 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 |
```

- 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

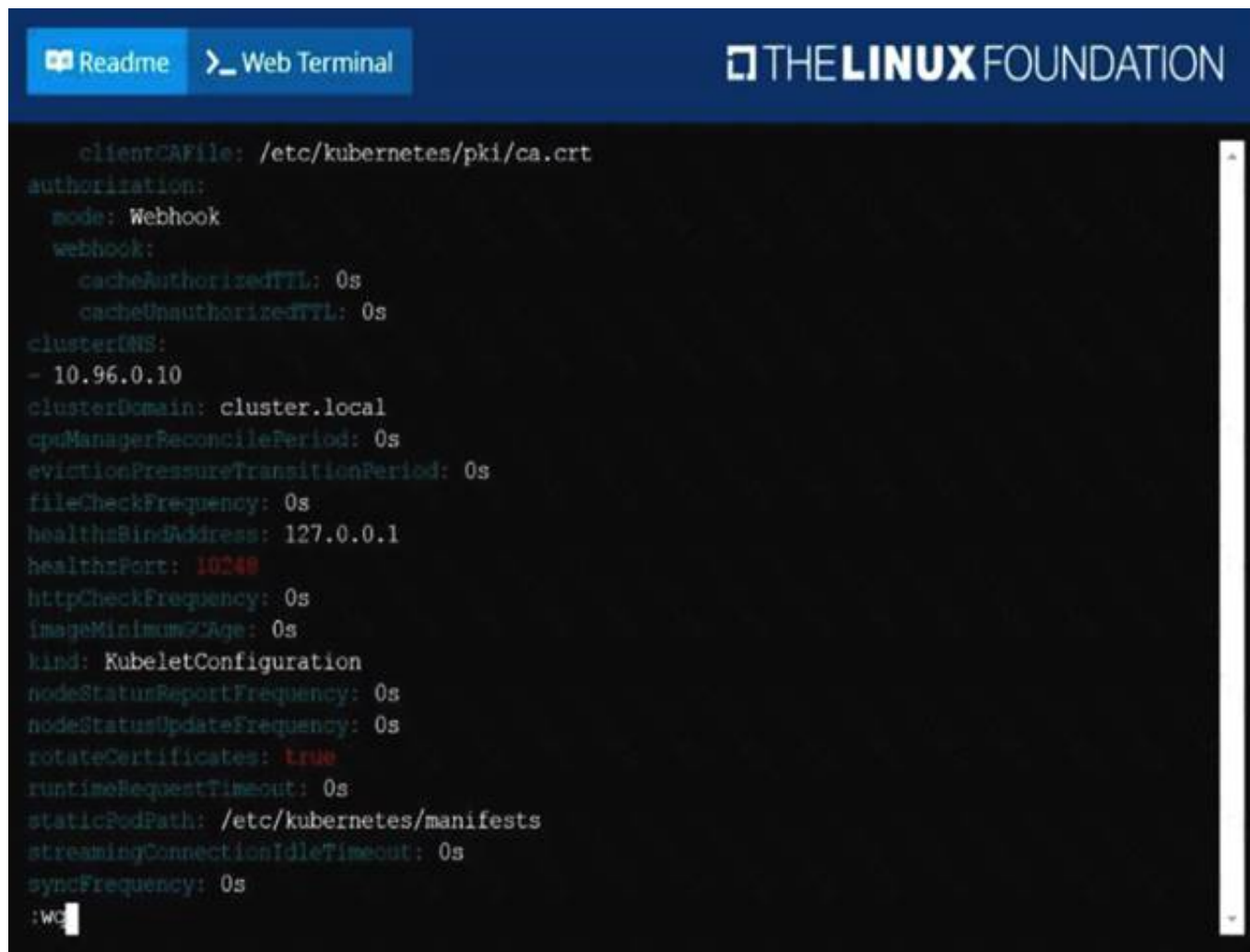
   https://microk8s.io/ has docs and details.

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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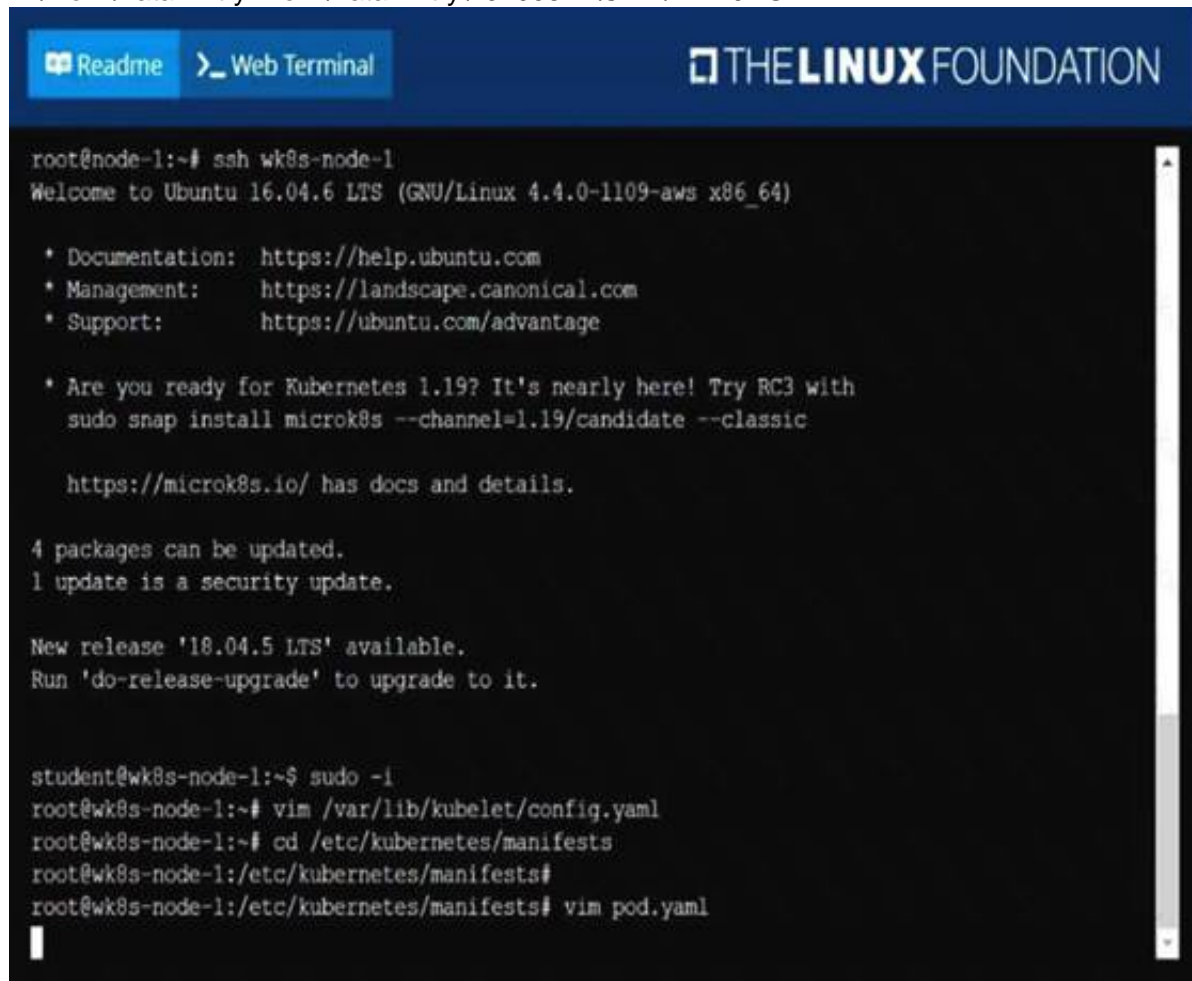


```

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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```

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.

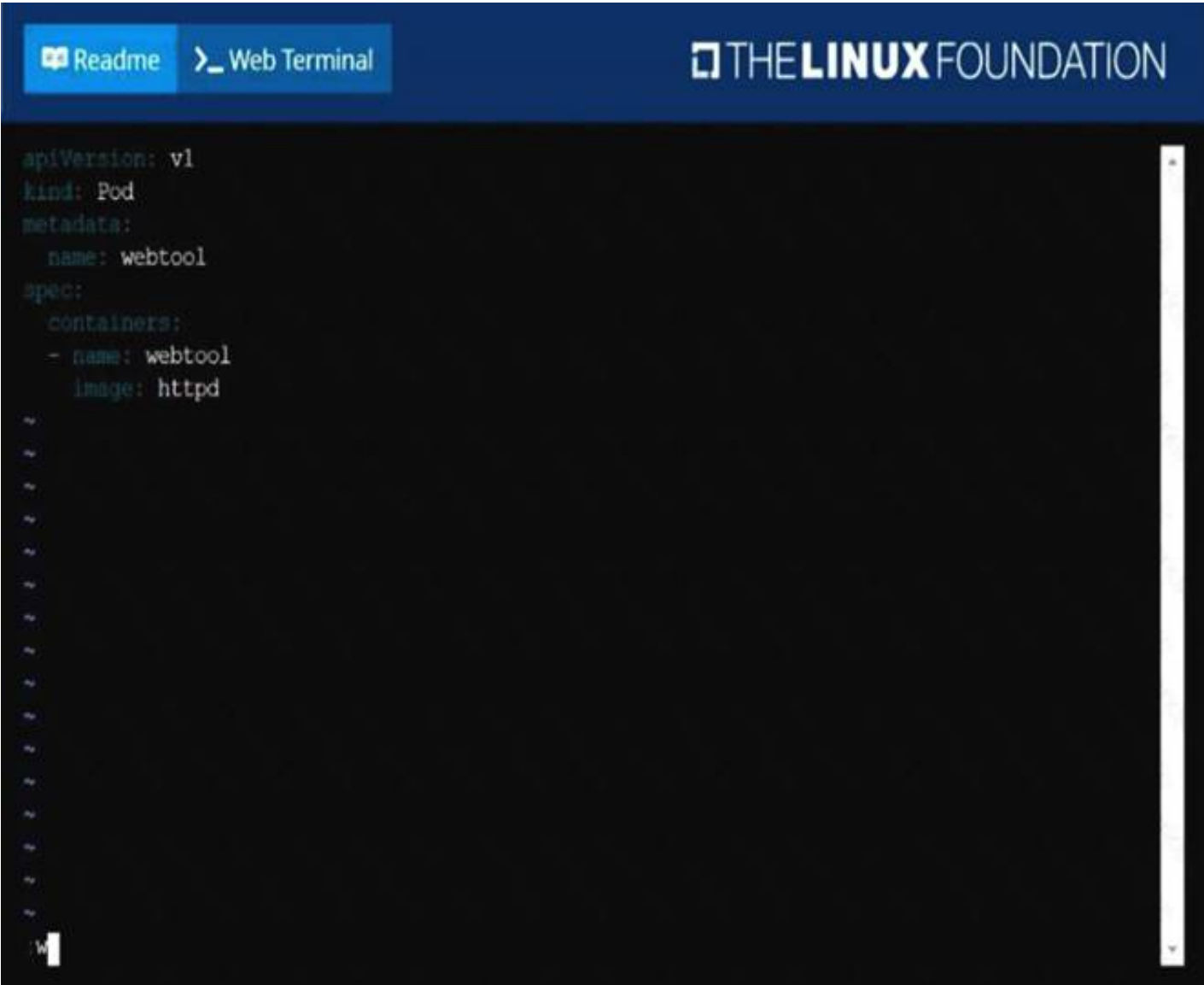
4 packages can be updated.
1 update is a security update.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

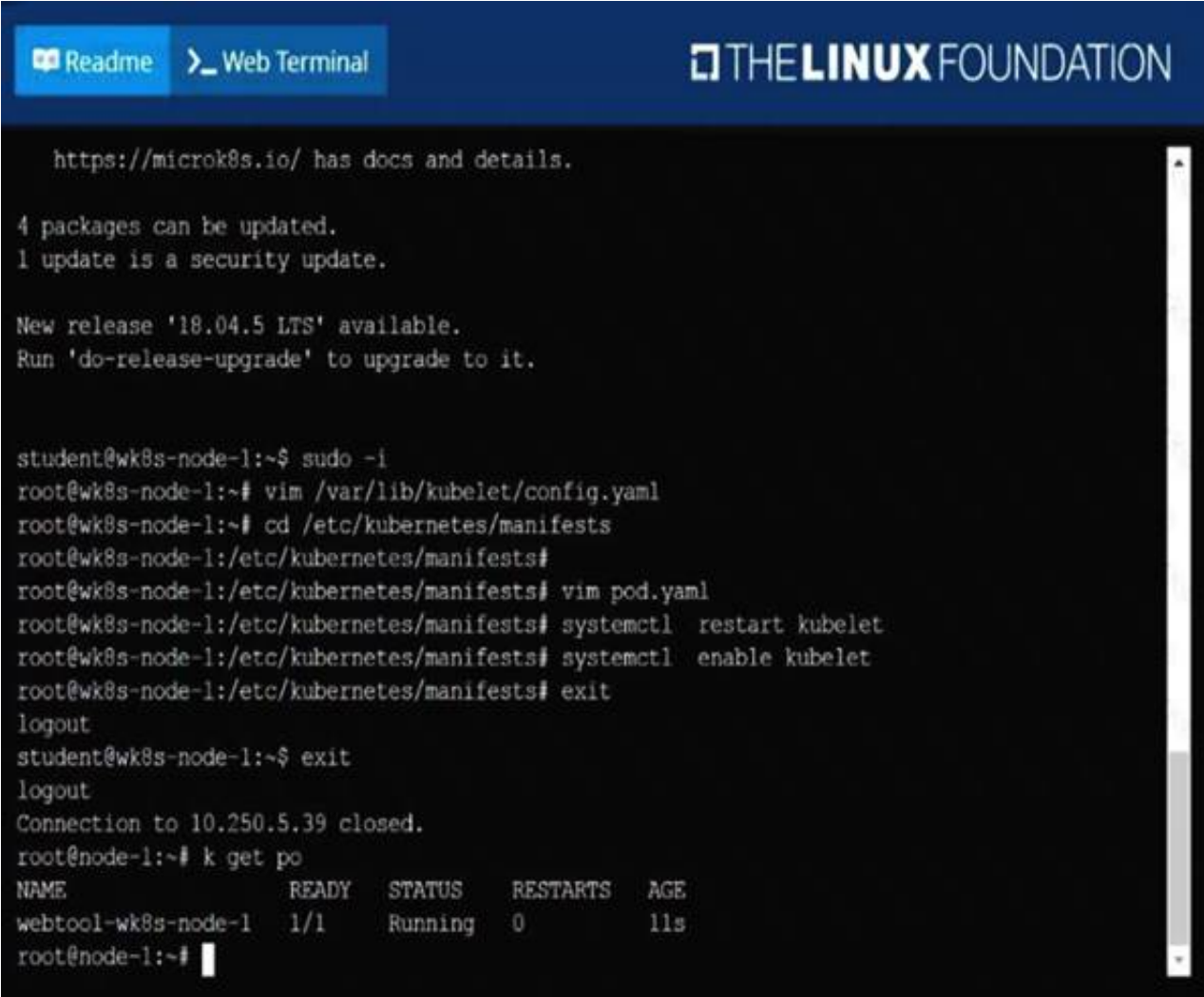
student@wk8s-node-1:~$ sudo -i
root@wk8s-node-1:~# vim /var/lib/kubelet/config.yaml
root@wk8s-node-1:~# cd /etc/kubernetes/manifests
root@wk8s-node-1:/etc/kubernetes/manifests#
root@wk8s-node-1:/etc/kubernetes/manifests# vim pod.yaml

```

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NEW QUESTION 9

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 10

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubect! get pods --sort-by=.metadata.name

NEW QUESTION 10

For this item, you will havetossh to the nodesik8s-master-0andik8s-node-0and complete all tasks on thesenodes. Ensure that you return tothe base node (hostname:node-1) when you havecompleted this item.

Context

As an administrator of a smalldevelopment team, you have beenasked to set up a Kubernetes clusterto test the viability of a newapplication.

Task

You must usekubeadmto performthis task. Anykubeadminvocationswill require the use of the --ignore-preflight-errors=alloption.

- > Configure thenodeik8s-master-Oas a masternode. .
- > Join the nodeik8s-node-otothe cluster.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

You must use thekubeadmconfiguration file located at/etc/kubeadm.confwhen initializingyour cluster.

You may use any CNI pluginto complete this task, but ifyou don't have your favouriteCNI plugin's manifest URL athand, Calico is one popularoption:<https://docs.projectcalico.org/v3.14/manifests/calico.yaml>

Docker is already installedon both nodes andapthasbeen configured so that you caninstall the required tools.

NEW QUESTION 14

Scale the deploymentwebserverto6pods.

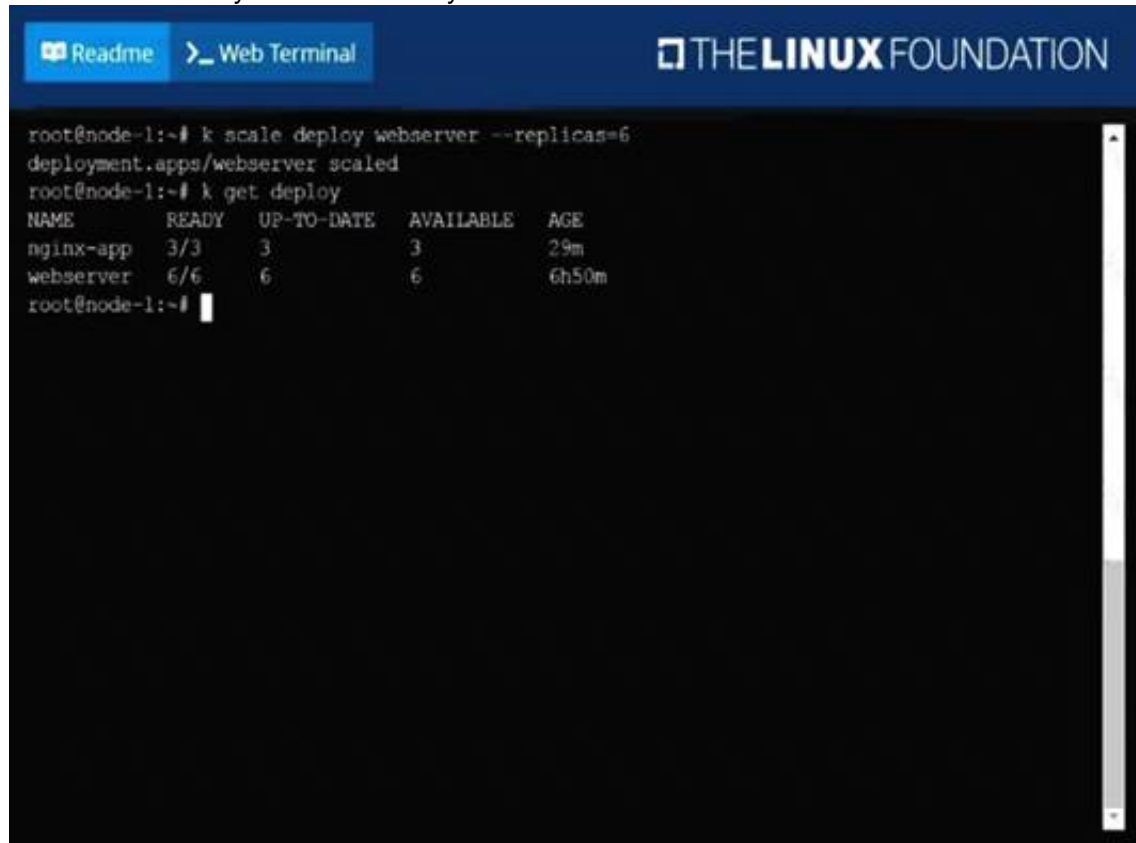
- A. Mastered
- B. Not Mastered

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:~#
```

NEW QUESTION 16

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