

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:

```
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
```

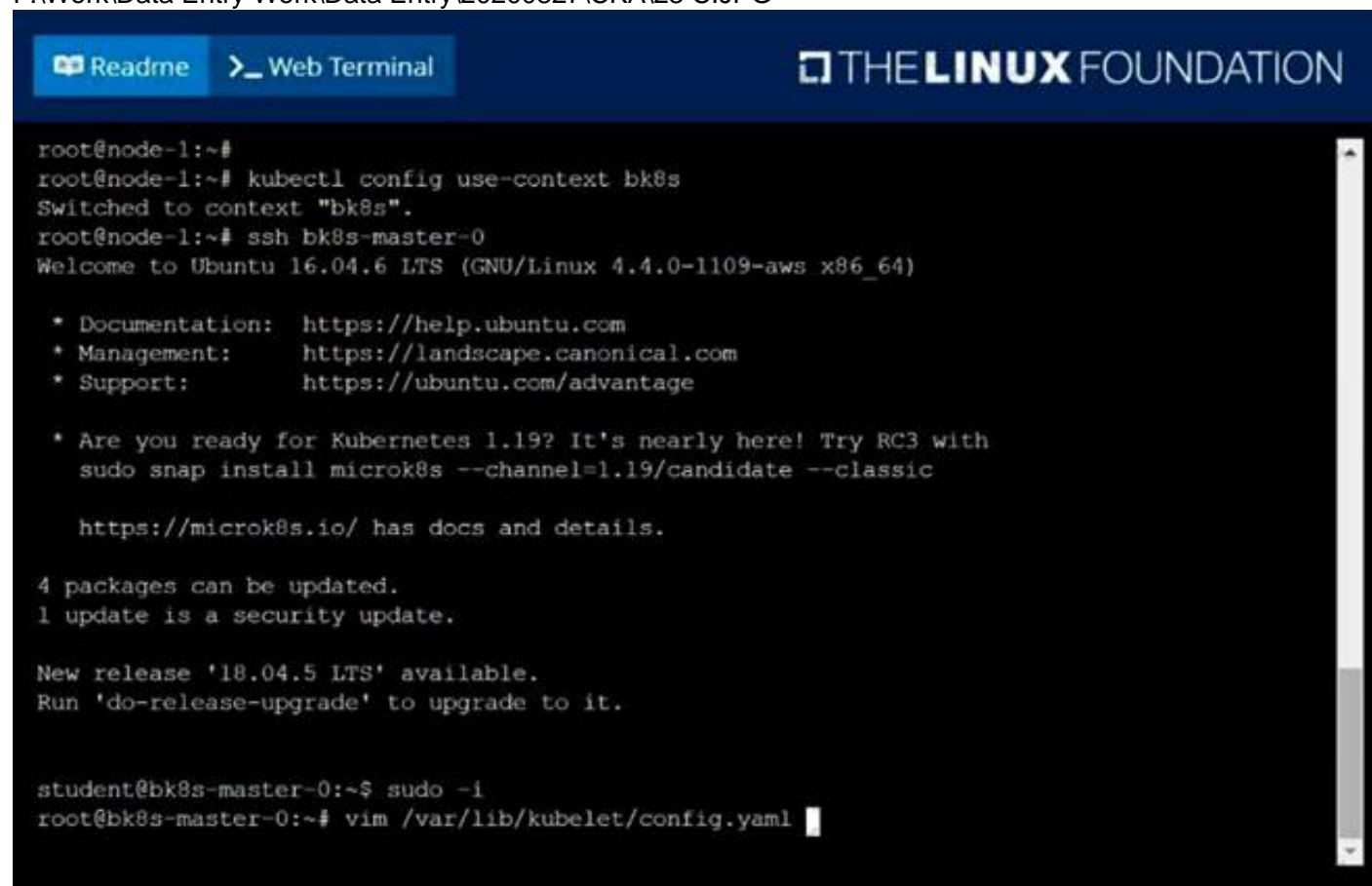
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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The screenshot shows a terminal window with the following content:

```
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

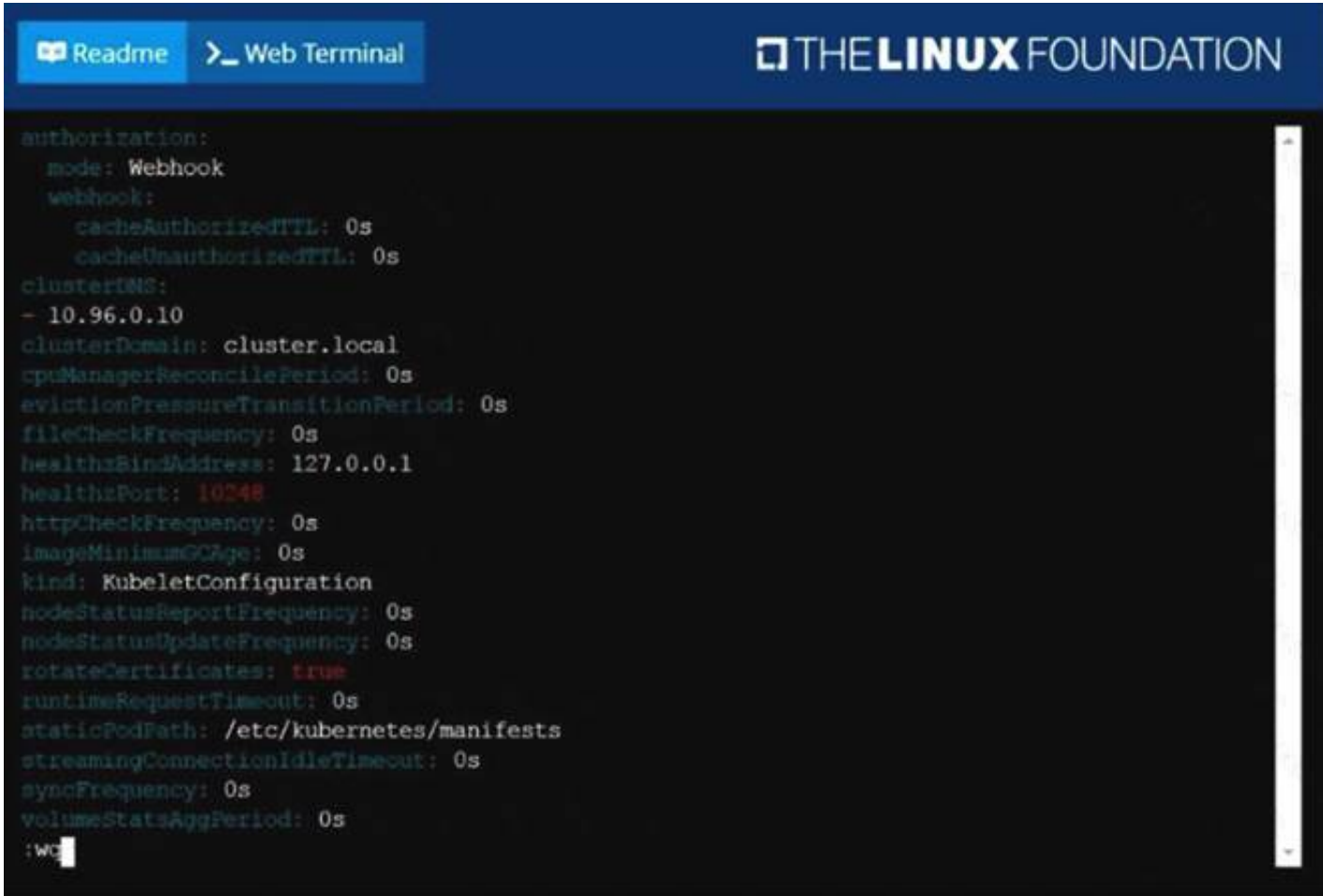
 * Are you ready for Kubernetes 1.19? It's nearly here! Try RC3 with
   sudo snap install microk8s --channel=1.19/candidate --classic
   https://microk8s.io/ has docs and details.

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

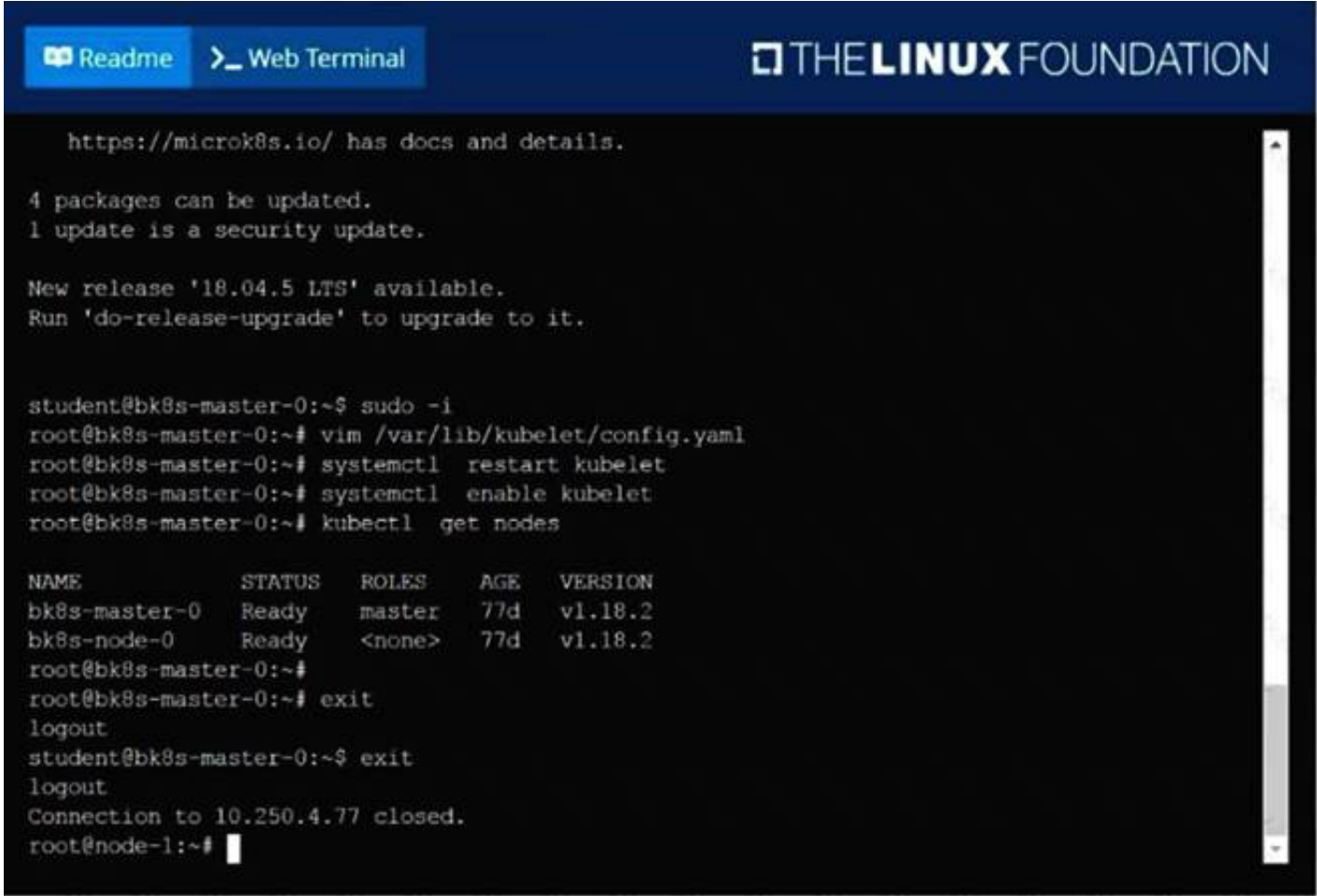
New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

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 deployment as follows:

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

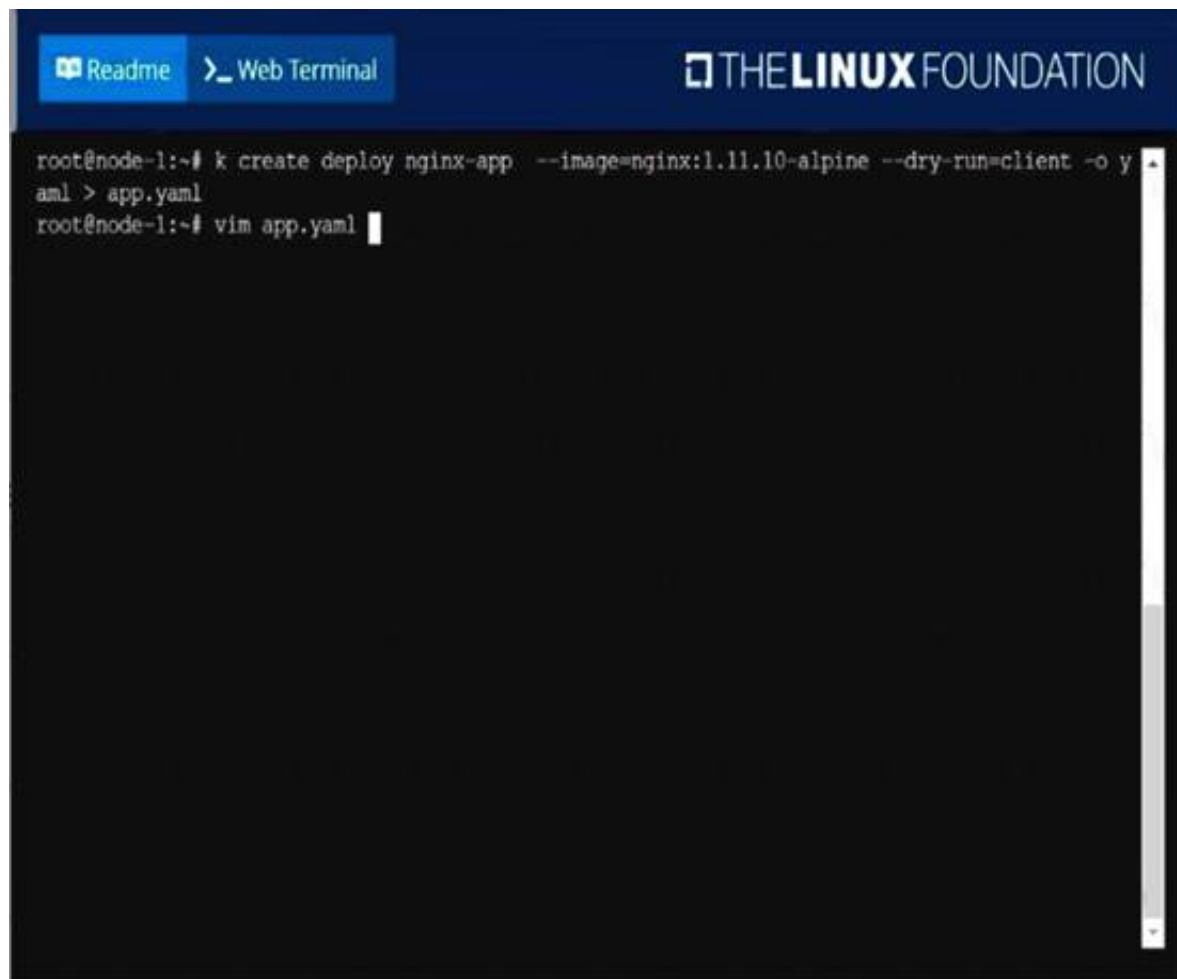
Next, deploy the application with newversion1.11.13-alpine, byperforming a rolling update.
 Finally, rollback that update to theprevious version1.11.10-alpine.

- A. Mastered
- B. Not Mastered

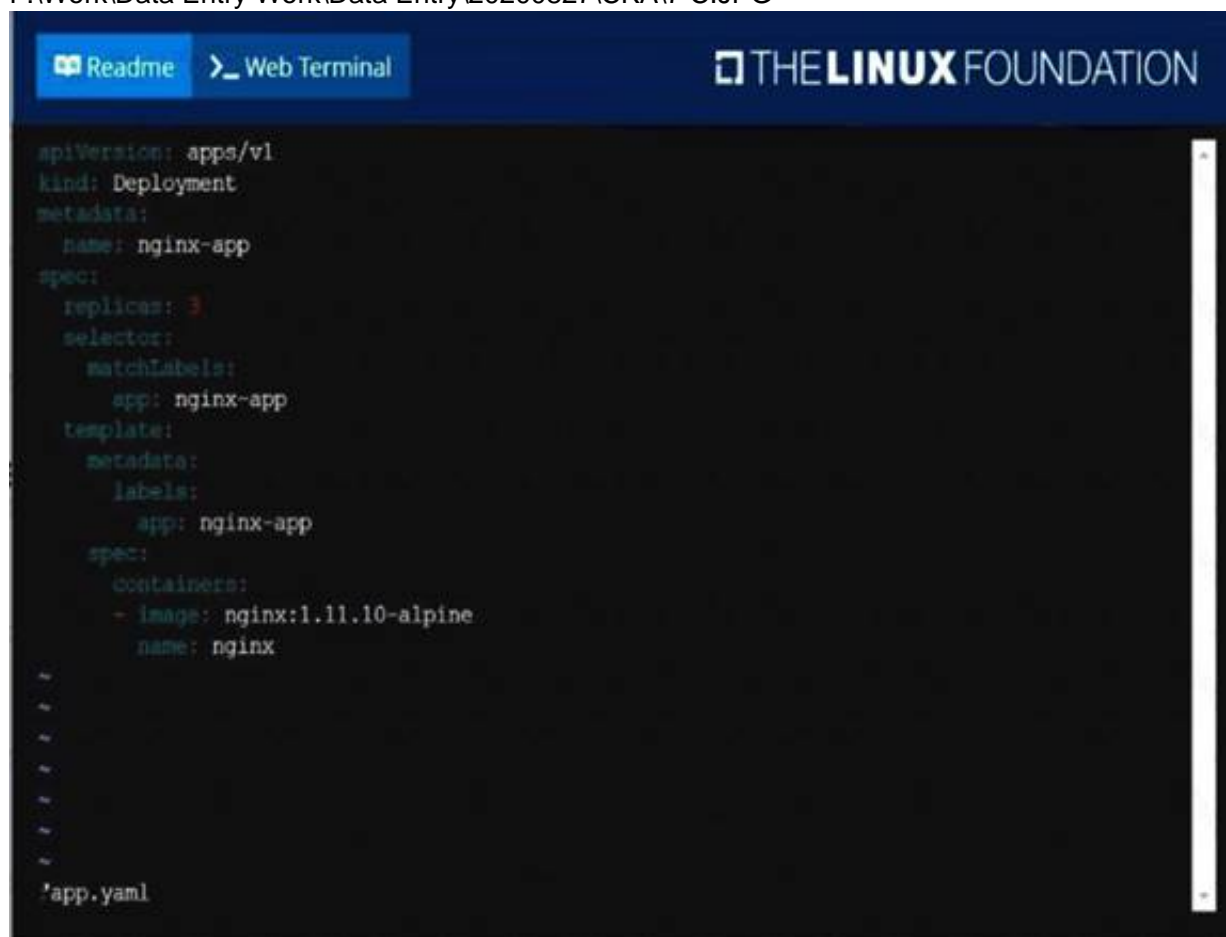
Answer: A

Explanation:

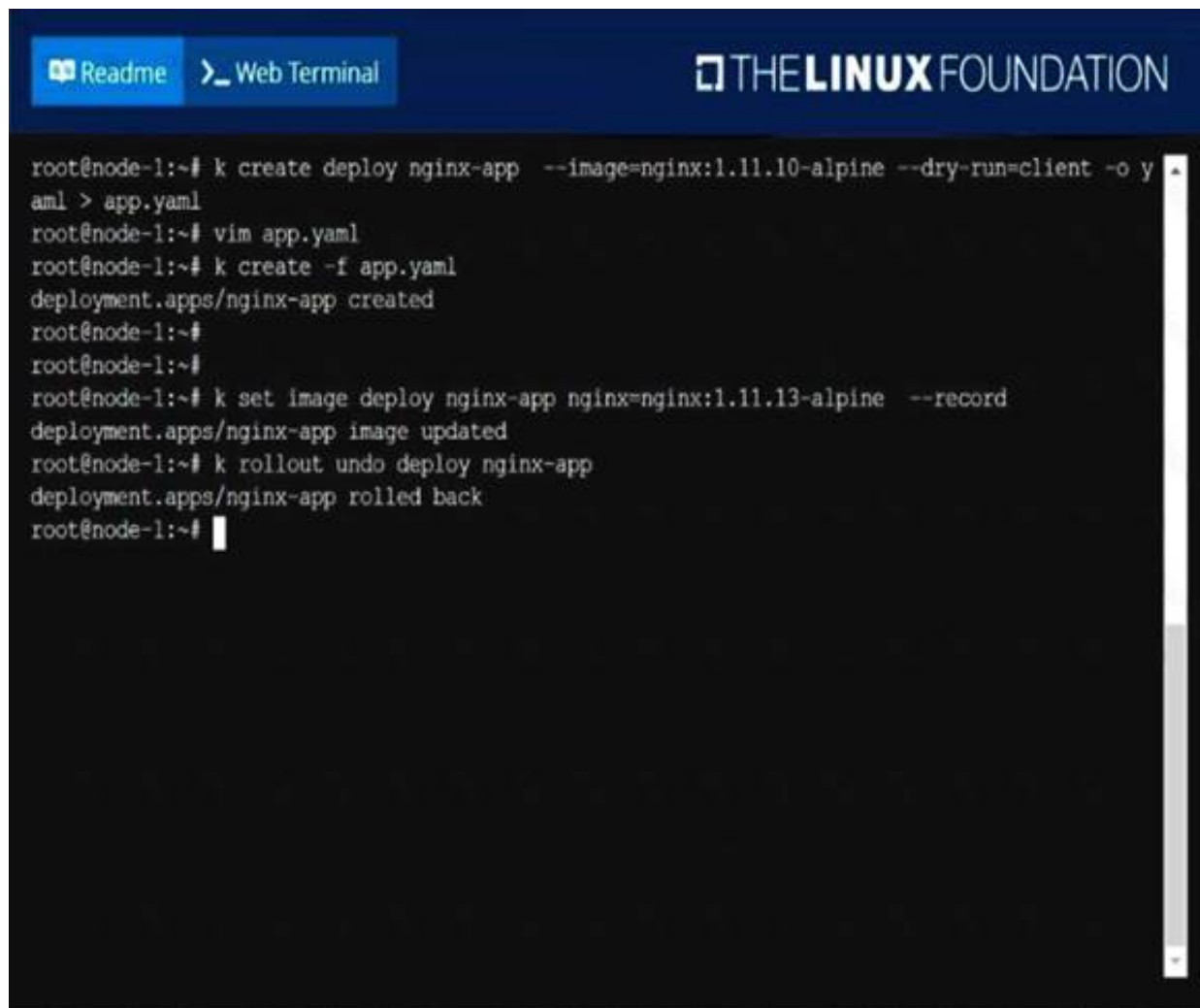
solution
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```
Readme Web Terminal THE LINUX FOUNDATION

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 4

Create a pod with image nginx called nginx and allow traffic on port 80

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubectlrn nginx --image=nginx --restart=Never --port=80

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:

kubectlr create namespace development
kubectlr run nginx --image=nginx --restart=Never -n development

NEW QUESTION 6

Create a Kubernetes secret asfollows:

- > Name: super-secret
- > password: bob

Create a pod namedpod-secrets-via-file, using theredisImage, which mounts a secret namedsuper-secretat /secrets.

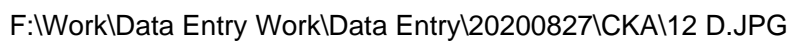
Create a second pod namedpod-secrets-via-env, using theredisImage, which exportspasswordas CONFIDENTIAL

- A. Mastered
- B. Not Mastered


Answer: A

Explanation:

solution
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Readme
Web Terminal



```

root@node-1:~# k create -f secret.yaml
pod/pod-secrets-via-file created
root@node-1:~# vim secret1.yaml
root@node-1:~# k create -f secret1.yaml
pod/pod-secrets-via-env created
root@node-1:~# k get po
NAME                                READY   STATUS    RESTARTS   AGE
cpu-utilizer-98b9se                 1/1     Running   0           6h25m
cpu-utilizer-ab2d3s                 1/1     Running   0           6h25m
cpu-utilizer-kiqb9a                 1/1     Running   0           6h25m
ds-kusc00201-2r2k9                  1/1     Running   0           40m
ds-kusc00201-hzm9q                  1/1     Running   0           40m
foo                                  1/1     Running   0           6h28m
front-end                           1/1     Running   0           6h27m
hungry-bear                         1/1     Running   0           36m
kucc8                                3/3     Running   0           34m
nginx-app-848cfcf495-9prjh          1/1     Running   0           19m
nginx-app-848cfcf495-gl2kh          1/1     Running   0           19m
nginx-app-848cfcf495-pg2c8          1/1     Running   0           19m
nginx-kusc00101                     1/1     Running   0           26m
pod-secrets-via-env                  1/1     Running   0           4s
pod-secrets-via-file                 1/1     Running   0           106s
webserver-84c55967f4-qzjcv          1/1     Running   0           6h43m
webserver-84c55967f4-t479l          1/1     Running   0           6h43m
root@node-1:~#

```

NEW QUESTION 7

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

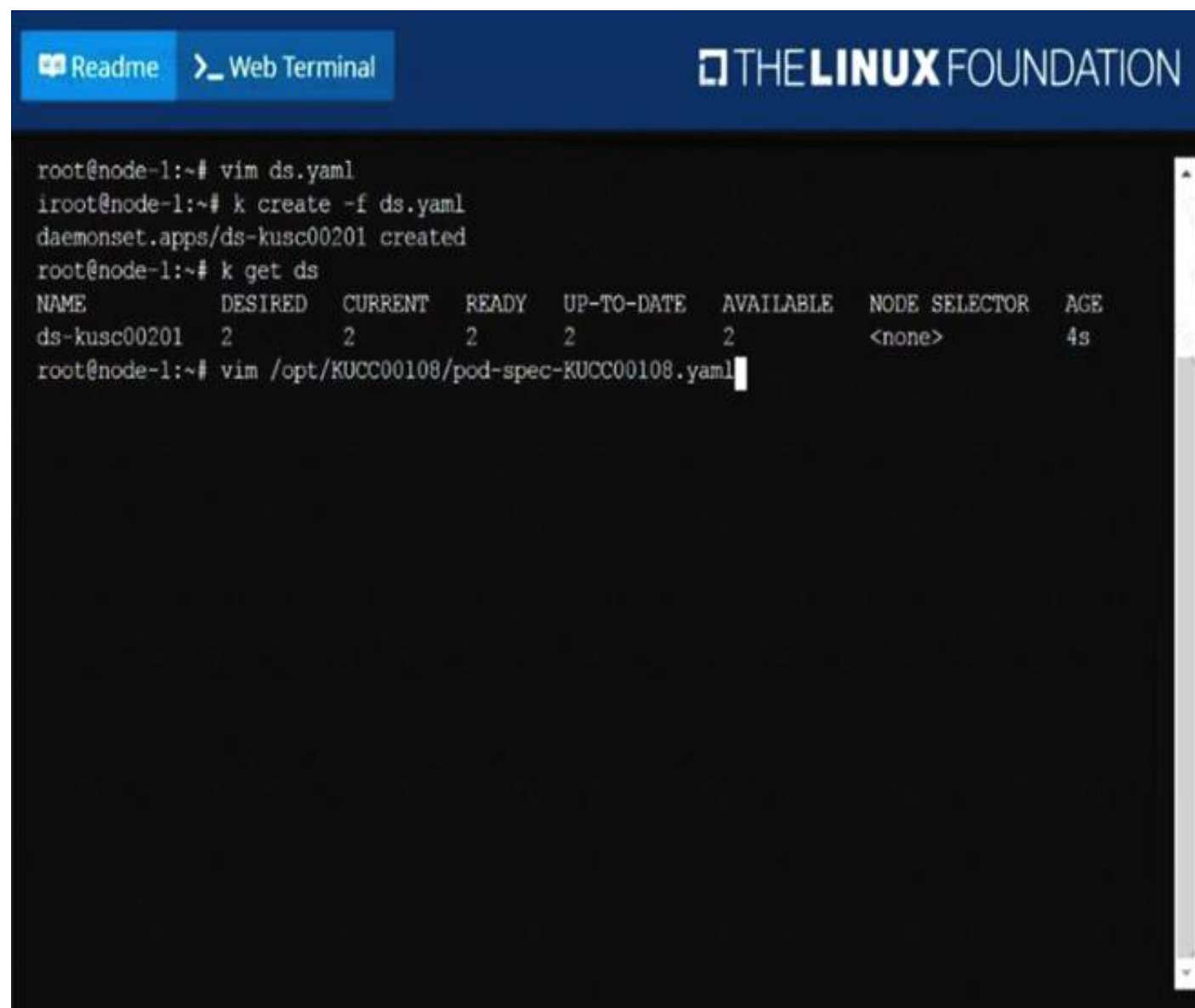
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

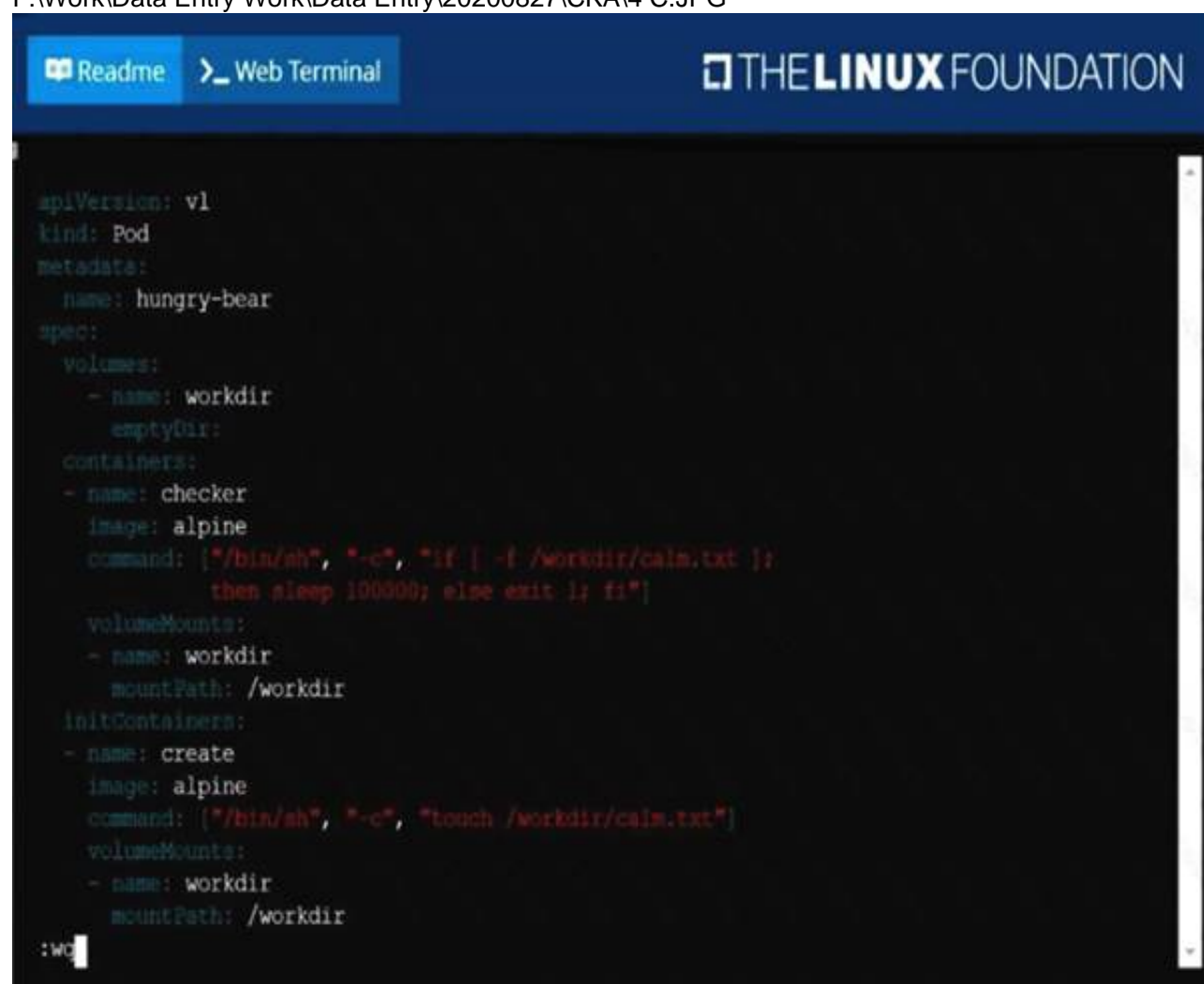
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The screenshot shows a web terminal interface with a dark background. At the top, there are two tabs: 'Readme' and 'Web Terminal'. To the right of the tabs is the 'THE LINUX FOUNDATION' logo. The terminal content shows a series of commands and their outputs:

```
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'. To the right of the tabs is the 'THE LINUX FOUNDATION' logo. The terminal content shows a Kubernetes pod specification in YAML format:

```
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 8

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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```

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 front-end --name=front-end-service --port=80 --target-port=80 --type=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 9

Create an nginx pod and list the pod with different levels of verbosity

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

// create a pod

```
kubectrl run nginx --image=nginx --restart=Never --port=80
// List the pod with different verbosity kubectrl get po nginx --v=7
kubectrl get po nginx --v=8 kubectrl get po nginx --v=9
```

NEW QUESTION 10

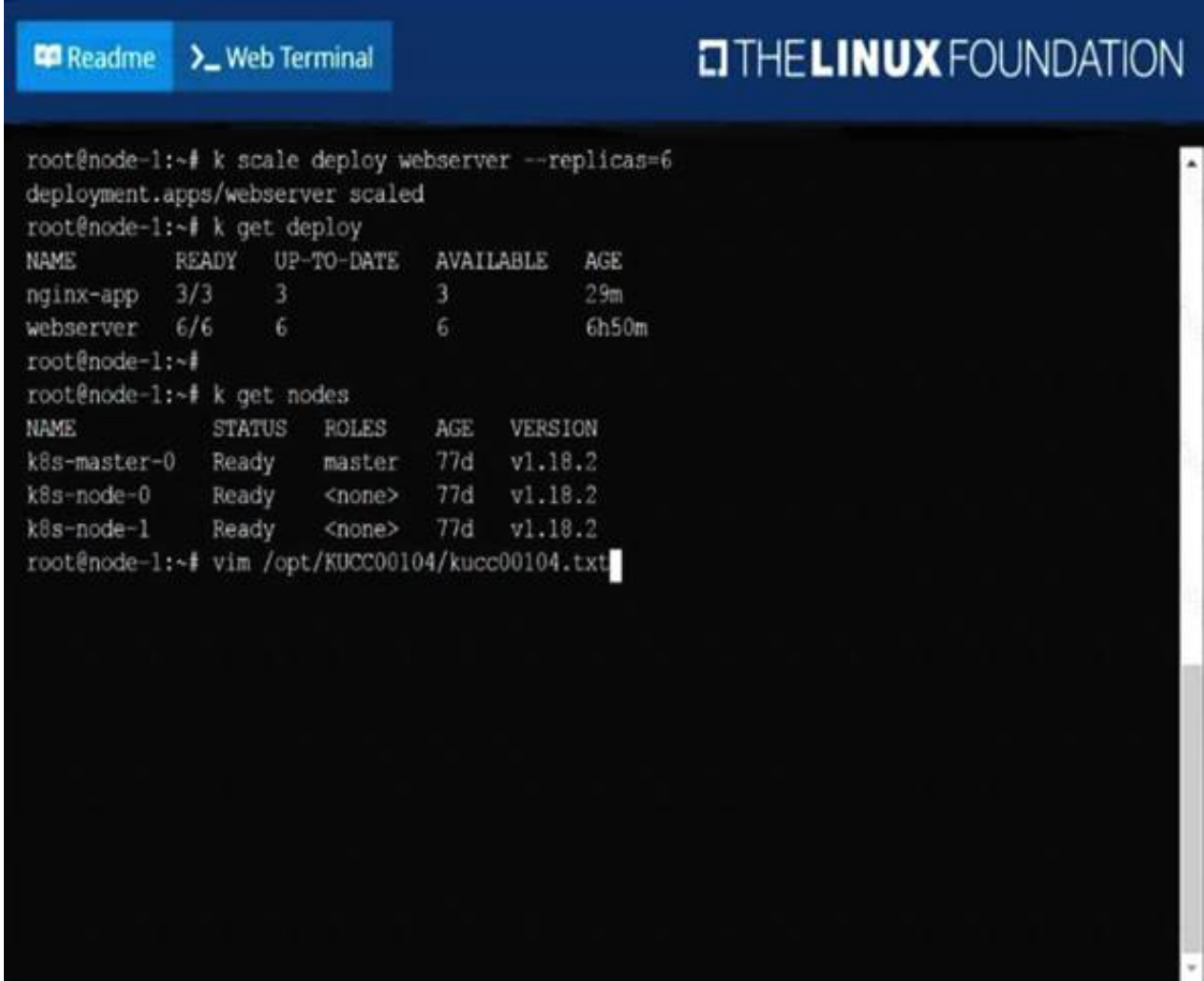
Check to see how many worker nodes are ready (not including nodes taintedNoSchedule) and write the number to /opt/KUCC00104/kucc00104.txt.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution
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NEW QUESTION 10

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