Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

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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-functioningKubernetes cluster, identifysymptoms of failure on the cluster.
Determine the node, the failingservice, and take actions to bring upthe failed service and restore thehealth of the cluster. Ensure that anychanges are made permanently.
You cansshto the relevant Inodes (bk8s-master-0orbk8s-node-0) using:
[student@node-1] $ ssh<nodename>
You can assume elevatedprivileges on any node in thecluster with the followingcommand:
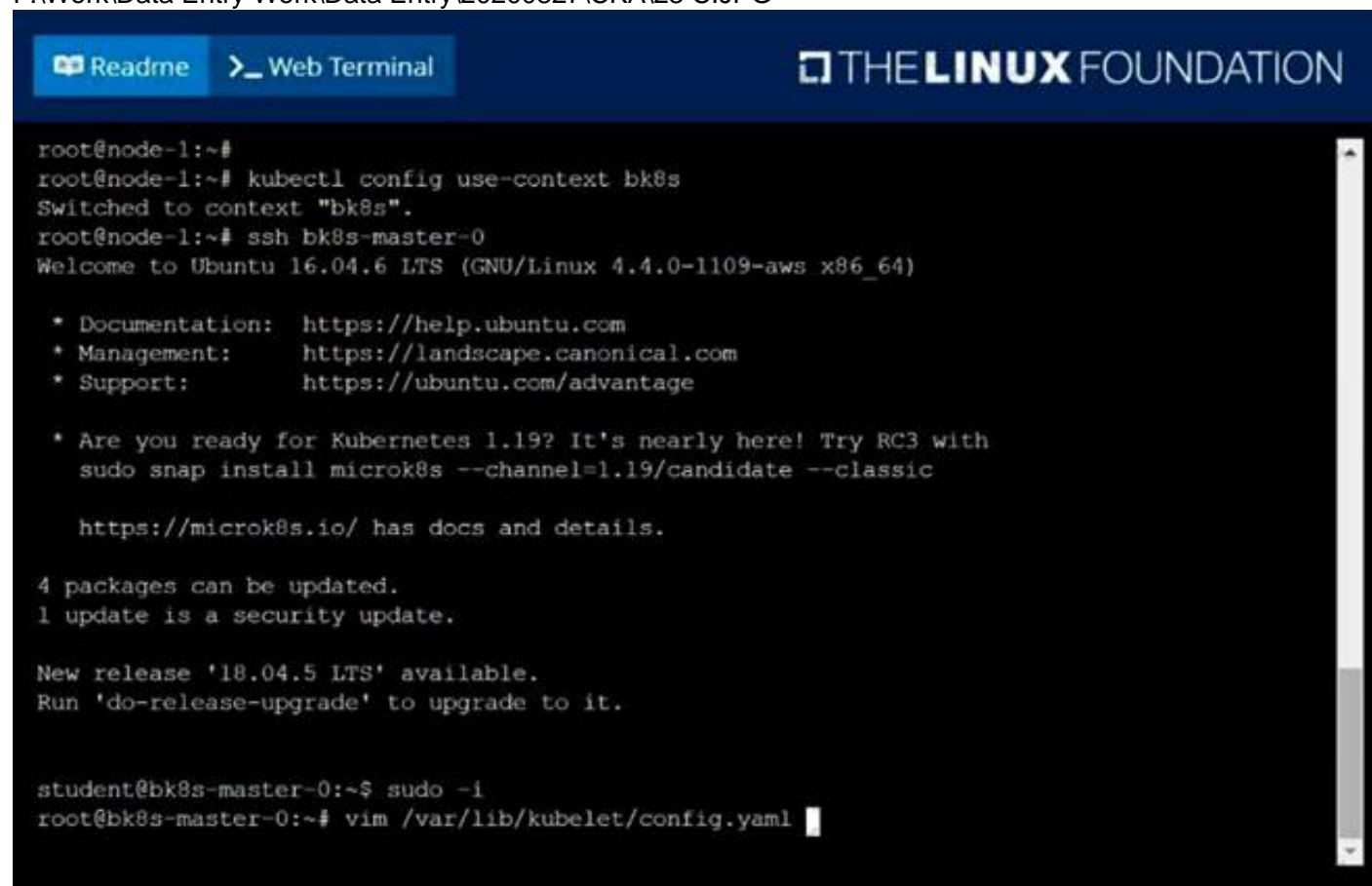[student@nodename] $ | sudo ?Ci

A. Mastered
B. Not Mastered

Answer: A

Explanation:

solution
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F:\Work\Data Entry Work\Data Entry\20200827\CKA\23 E.JPG
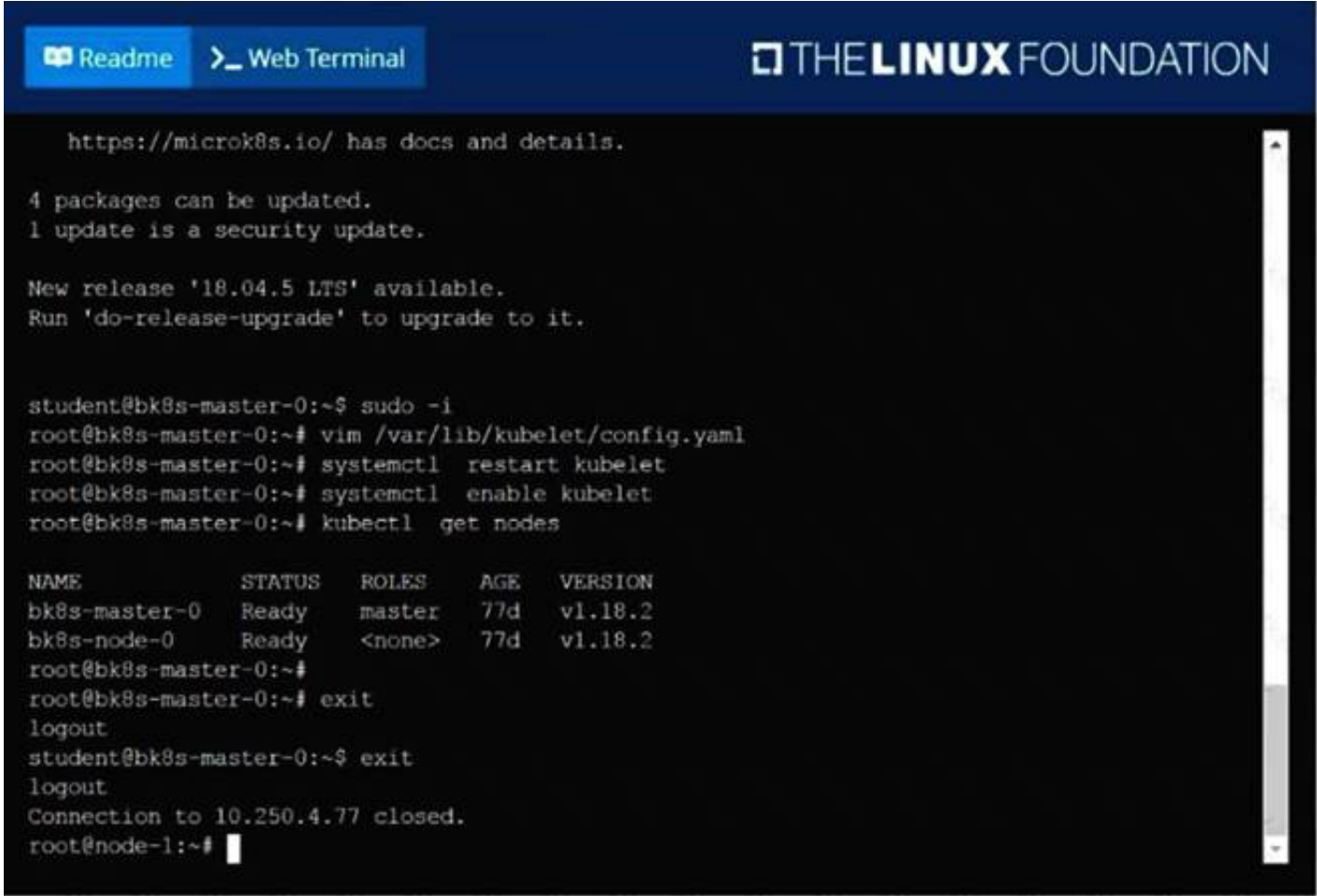
NEW QUESTION 3
Create a deployment as follows:
- Name:nginx-app
- Using containernginxwithversion 1.11.10-alpine
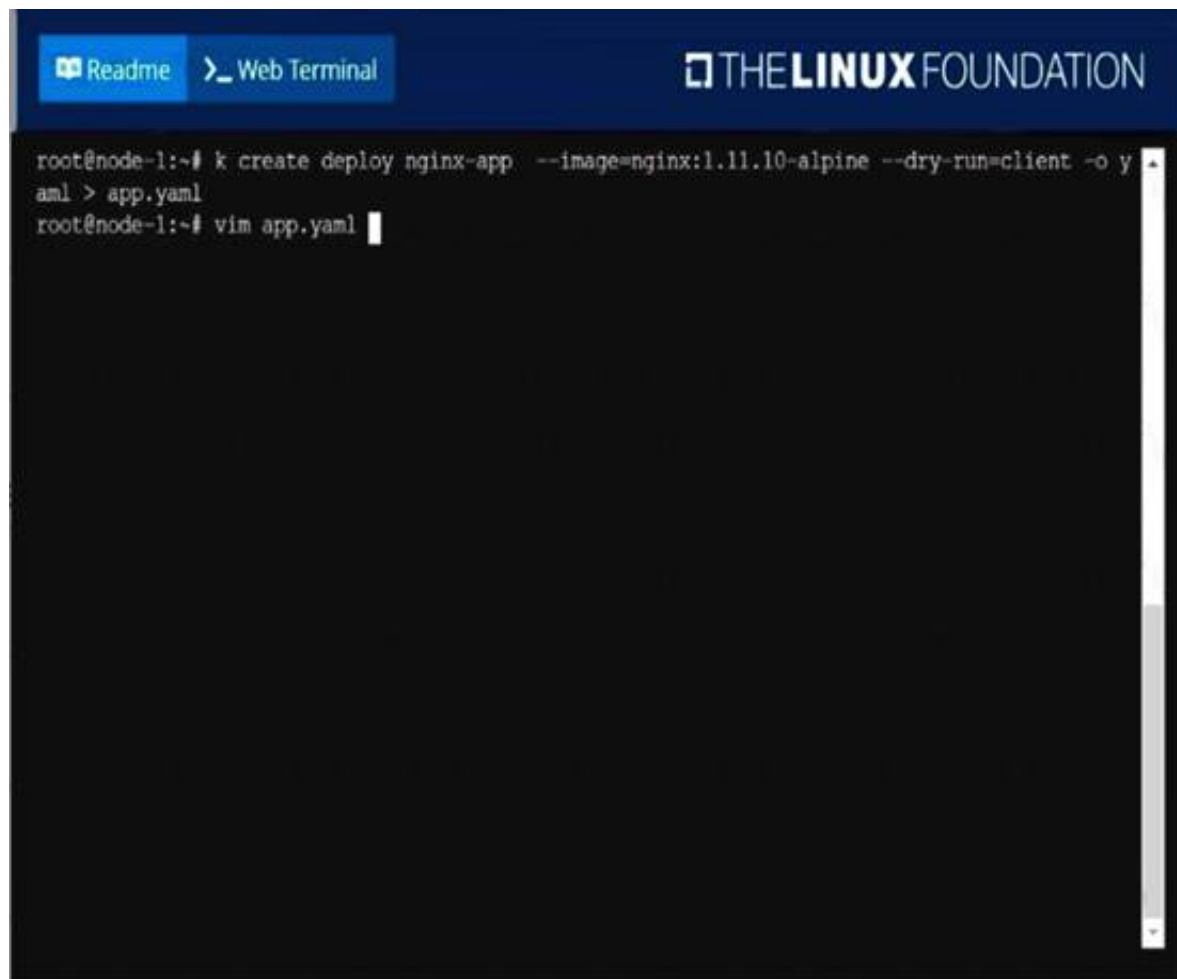- The deployment should contain3replicas

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

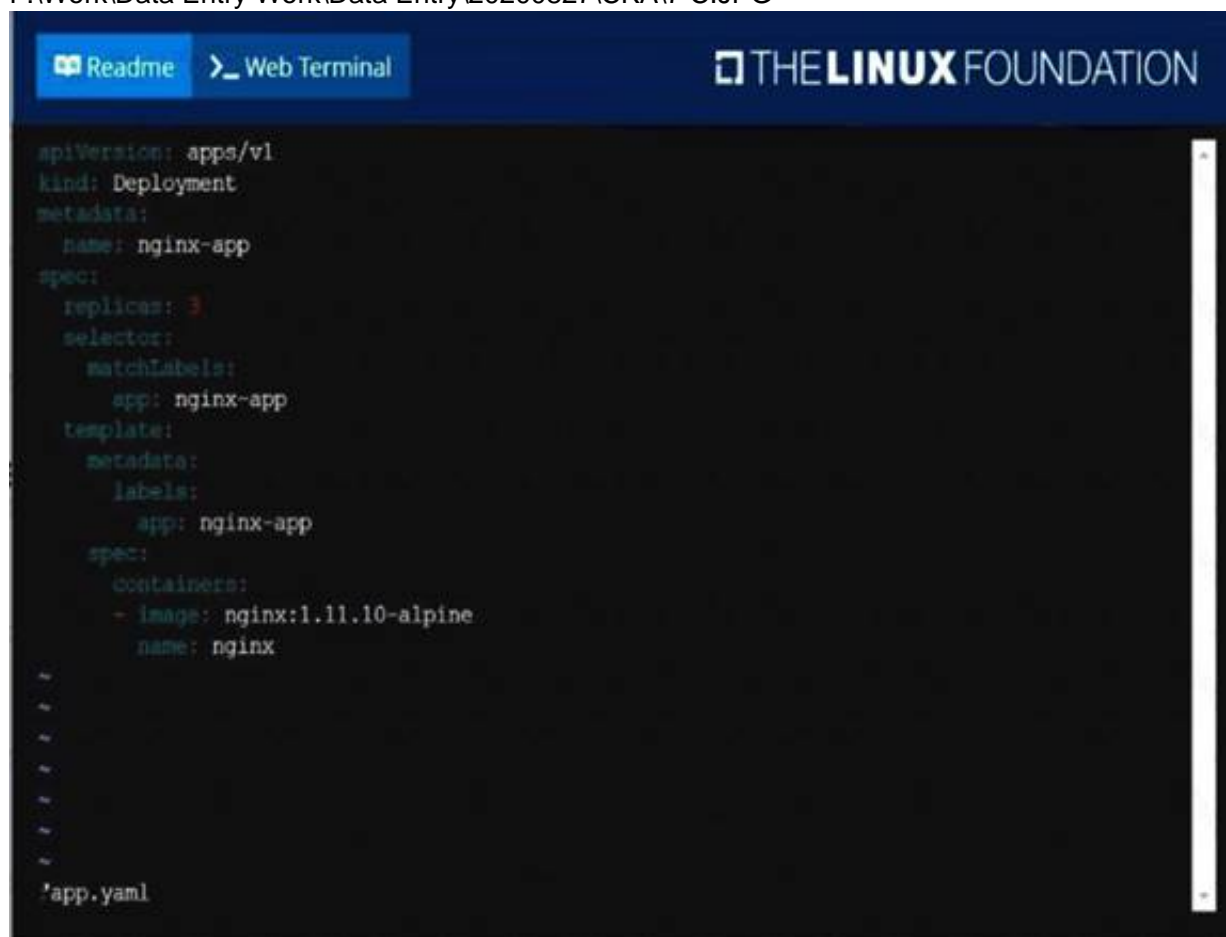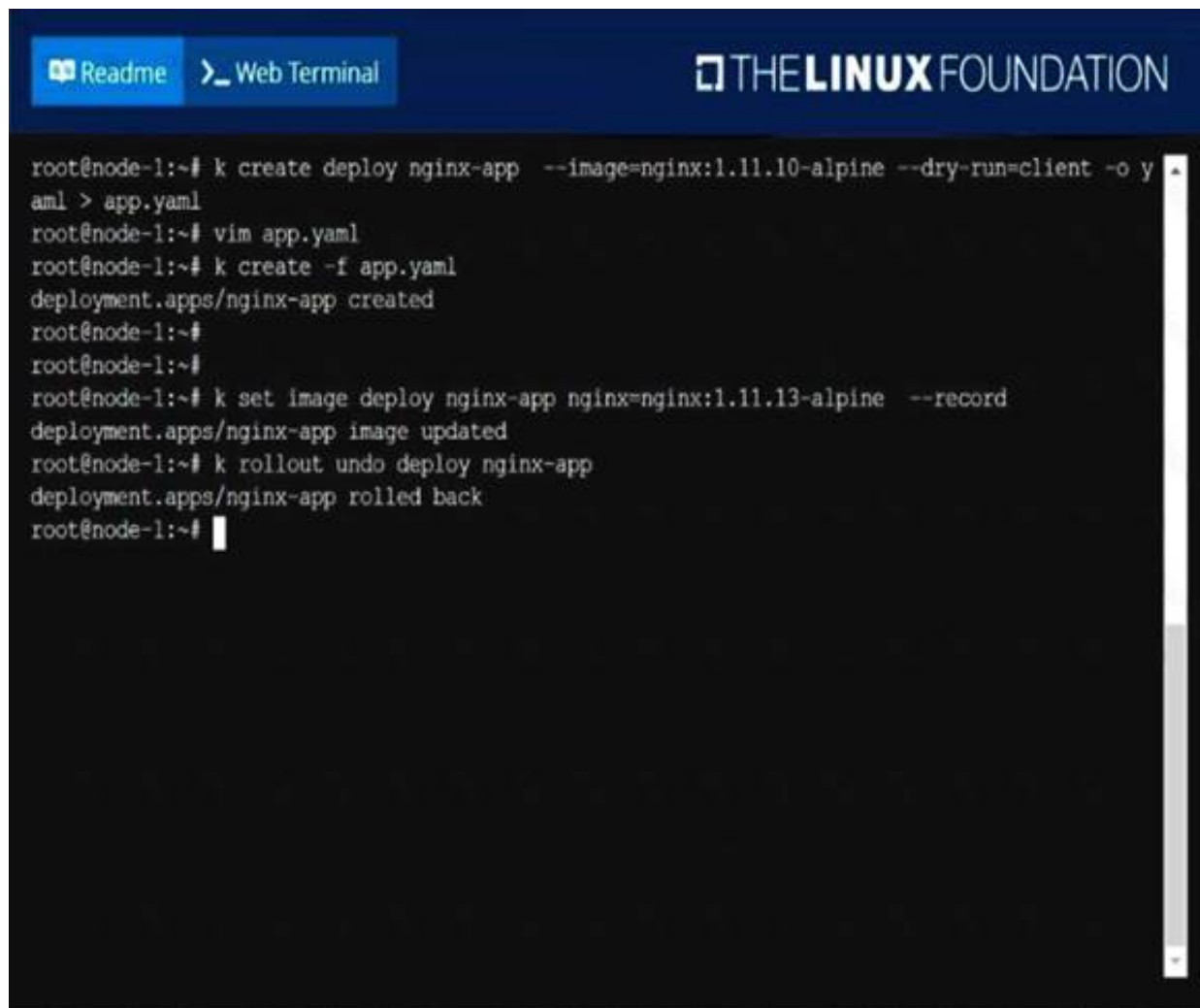**Answer:** A

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
```

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Readme **Web Terminal**   **THE LINUX FOUNDATION**

```
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
~
~
~
~
~
~
~
~
'app.yaml
```

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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:
kubectlrun 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:
kubectl create namespace development
kubectl 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
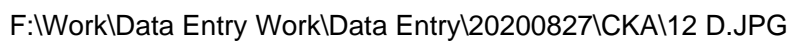/secrets.
Create a second pod namedpod-secrets-via-env, using theredisImage, which exportspasswordas
CONFIDENTIAL

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution
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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
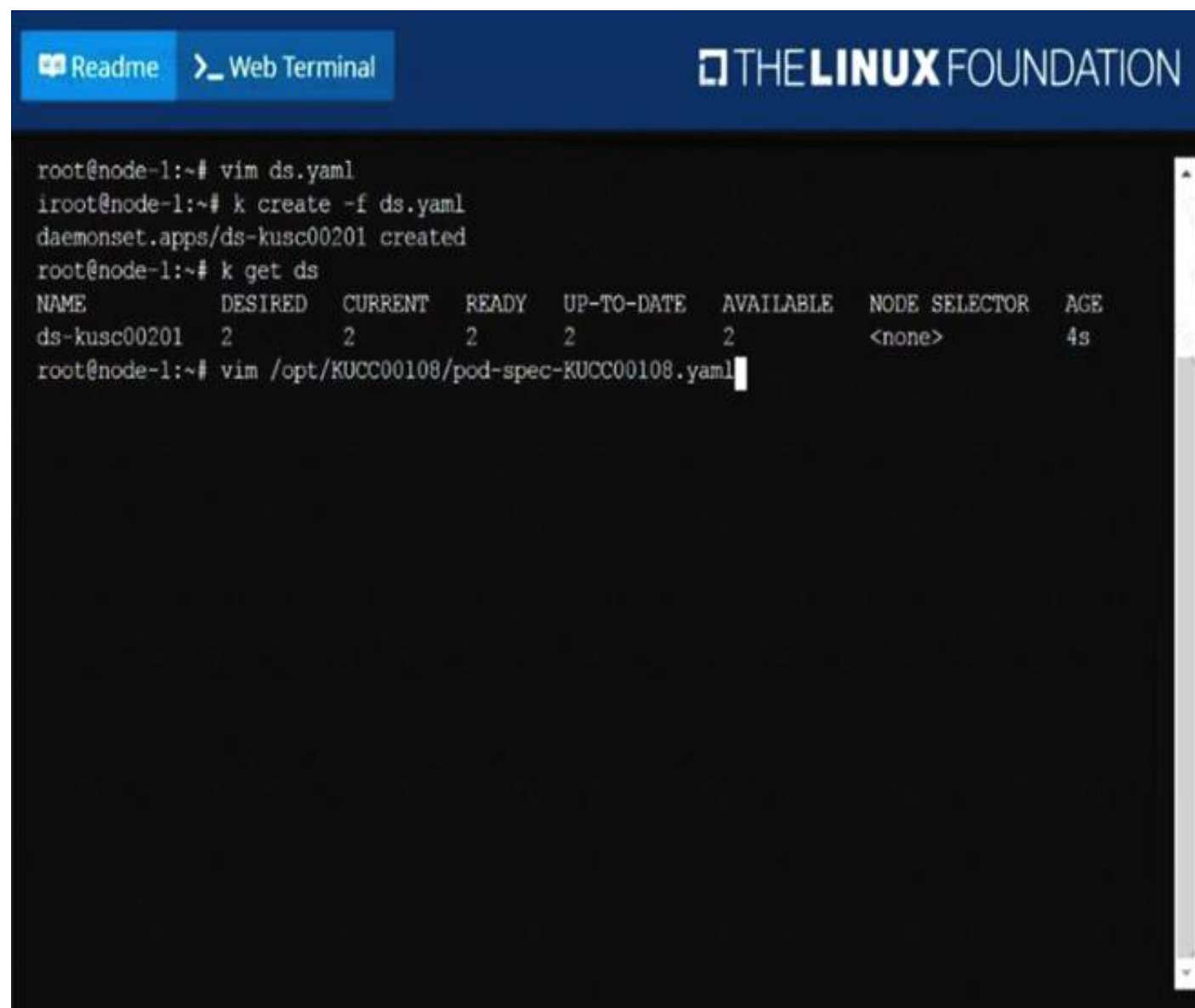➢ Once the spec file has beenupdatedwith the init containerdefinition, the pod should becreated

A. Mastered
B. Not Mastered
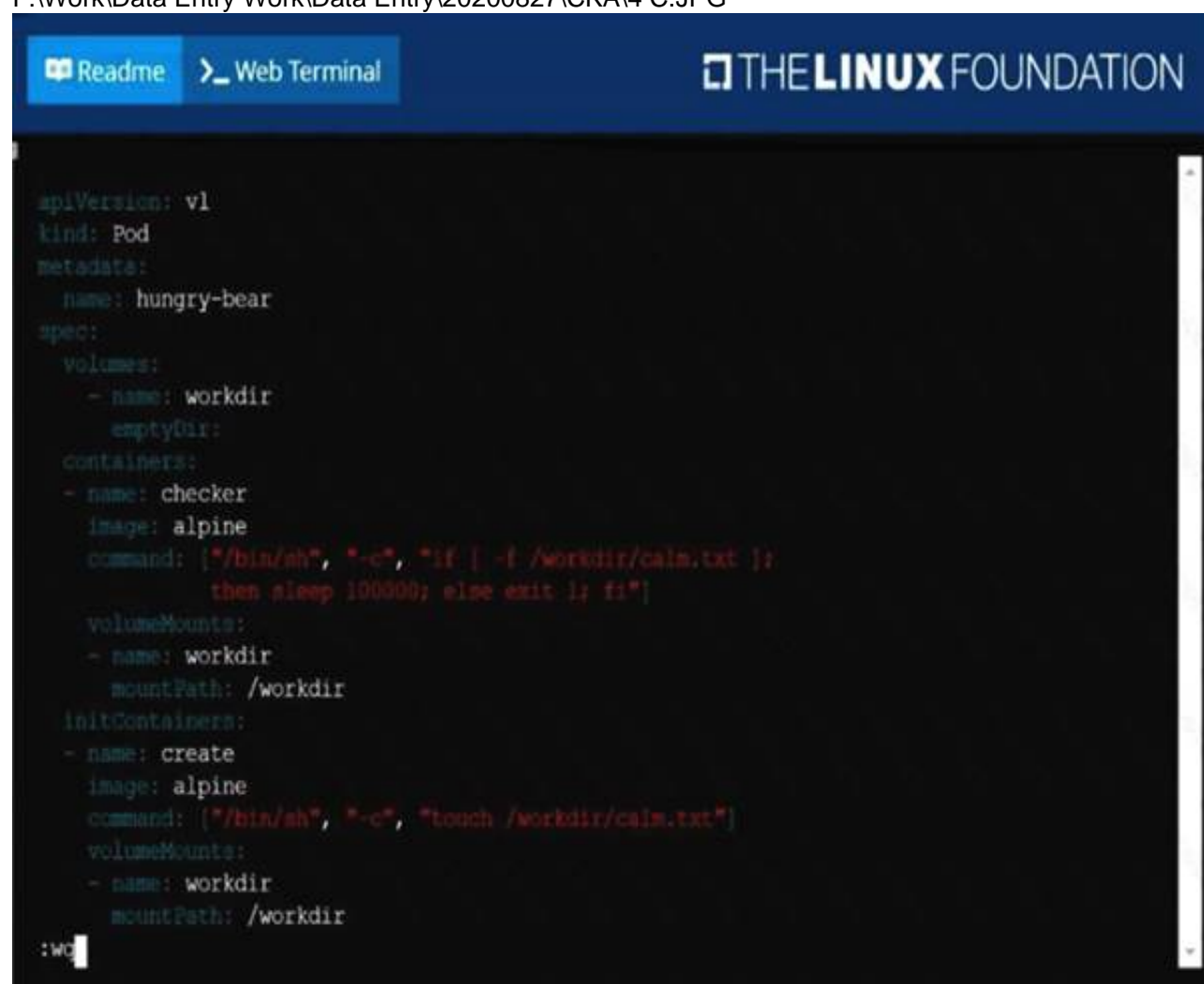
Answer: A

Explanation:
solution
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```
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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```
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
:wq
```

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NEW QUESTION 8
Create and configure the servicefront-end-serviceso it's accessiblethroughNodePortand routes to theexisting pod namedfront-end.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
 solution
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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

```
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
```
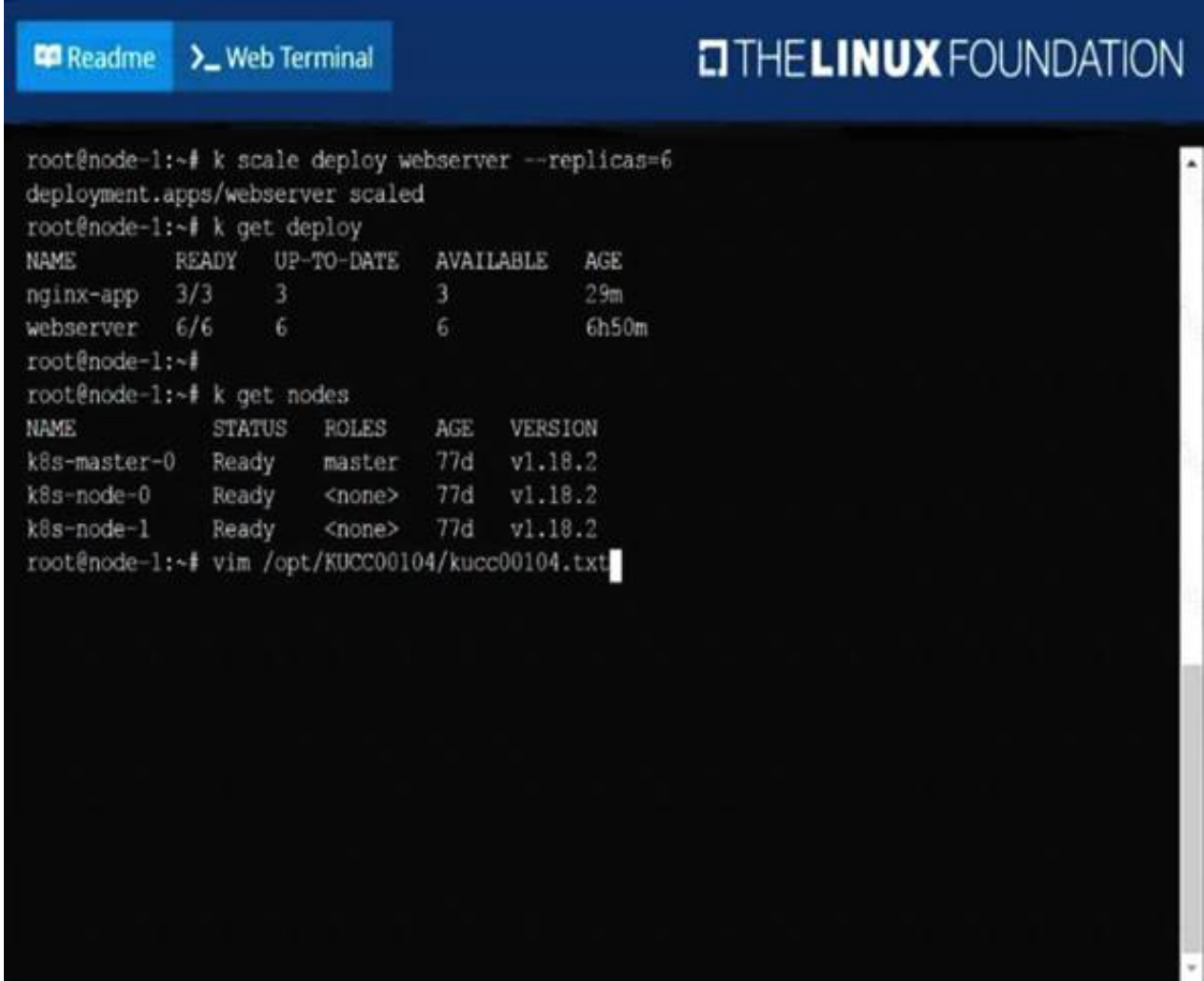
NEW QUESTION 10
Check to see how many worker nodes are ready (not including nodes taintedNoSchedule) and write the number to/opt/KUCC00104/kucc00104.txt.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
 solution
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NEW QUESTION 10
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