Linux-Foundation

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

NEW QUESTION 1
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:
kubectl run busybox --image=busybox -it --rm --restart=Never -
/bin/sh -c 'echo hello world'
kubectl get po # You shouldn't see pod with the name "busybox"

NEW QUESTION 2
List all the pods sorted by name

A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 3
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 4
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 5
A Kubernetes worker node, namedwk8s-node-0is in stateNotReady.Investigate why this is the case, andperform any appropriate steps tobring the node to aReadystate,ensuring that any changes are madepermanent.
You cansshto the failednode using:
[student@node-1] $ | sshWk8s-node-0
You can assume elevatedprivileges on the node with thefollowing command:
[student@w8ks-node-0] $ |sudo ?Ci

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution
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```
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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```
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/sys
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 6
Create a file:
/opt/KUCC00302/kucc00302.txtthatlists all pods that implement servicebazin namespacedevelopment.
The format of the file should be onepod name per line.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution
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```
root@node-1:~#
root@node-1:~# k describe svc baz -n development
Name:              baz
Namespace:         development
Labels:            <none>
Annotations:       <none>
Selector:          name=foo
Type:              ClusterIP
IP:                10.104.252.175
Port:              <unset>  80/TCP
TargetPort:        9376/TCP
Endpoints:         10.244.1.5:9376,10.244.2.3:9376,10.244.2.6:9376
Session Affinity:  None
Events:            <none>
root@node-1:~# k get po -l name=foo -n development
NAME                   READY   STATUS    RESTARTS   AGE
pod-kucc00302-847878   1/1     Running   0          6h35m
pod-kucc00302-983457   1/1     Running   0          6h35m
pod-kucc00302-985953   1/1     Running   0          6h35m
root@node-1:~# k get po -l name=foo -n development  -o NAME
pod/pod-kucc00302-847878
pod/pod-kucc00302-983457
pod/pod-kucc00302-985953
root@node-1:~# k get po -l name=foo -n development  -o NAME  > /opt/KUCC00302/kucc00302.txt
root@node-1:~# vim /opt/KUCC00302/kucc00302.txt
```
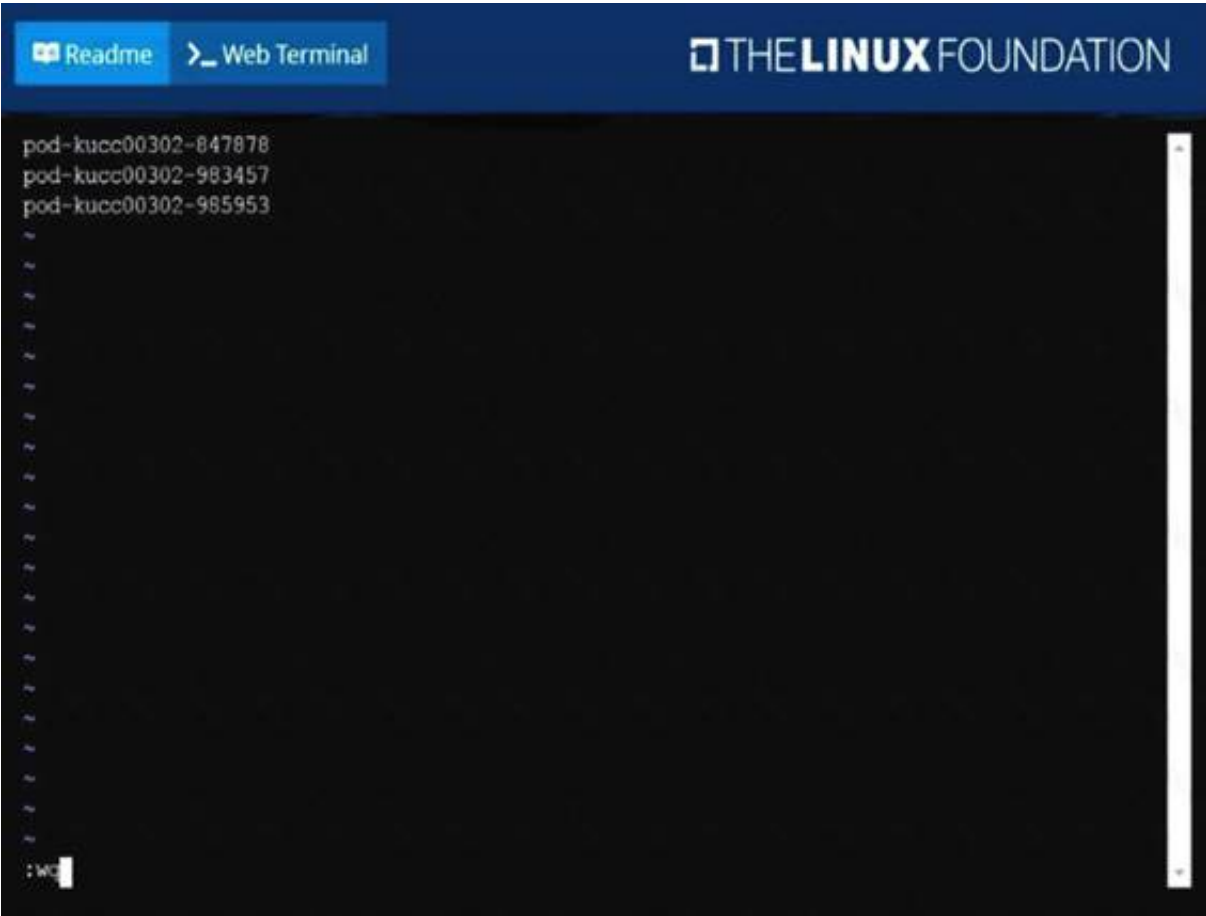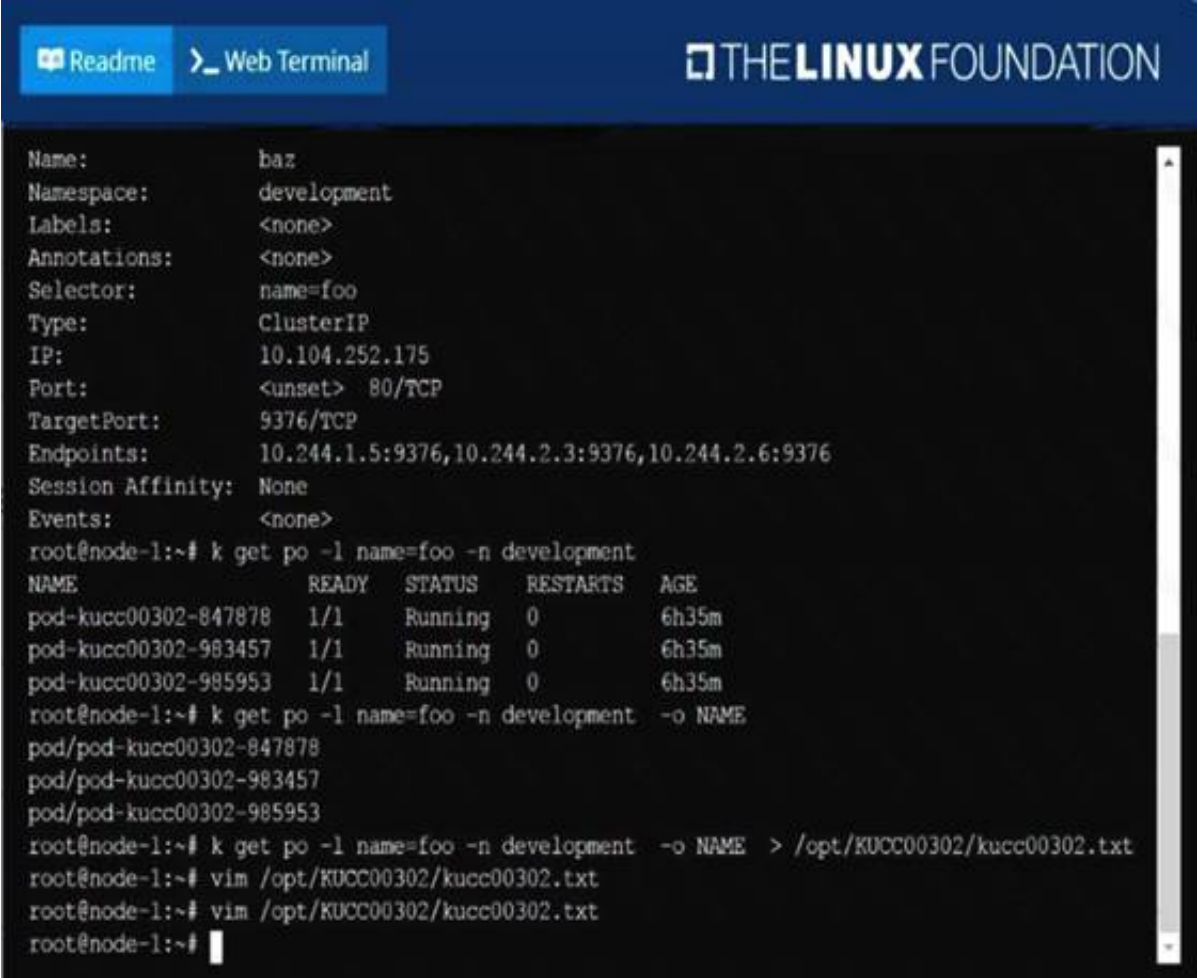
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NEW QUESTION 7
Create a busybox pod and add ??sleep 3600?? command

A. Mastered
B. Not Mastered

Answer: A

Explanation:
kubectl run busybox --image=busybox --restart=Never -- /bin/sh -c "sleep 3600"

NEW QUESTION 8
Get IP address of the pod ?C ??nginx-dev??

A. Mastered
B. Not Mastered

Answer: A

Explanation:
 Kubect1 get po -o wide Using JsonPath
kubect1 get pods -o=jsonpath='{range items[*]}{.metadata.name}{"\t"}{.status.podIP}{"\n"}{end}'
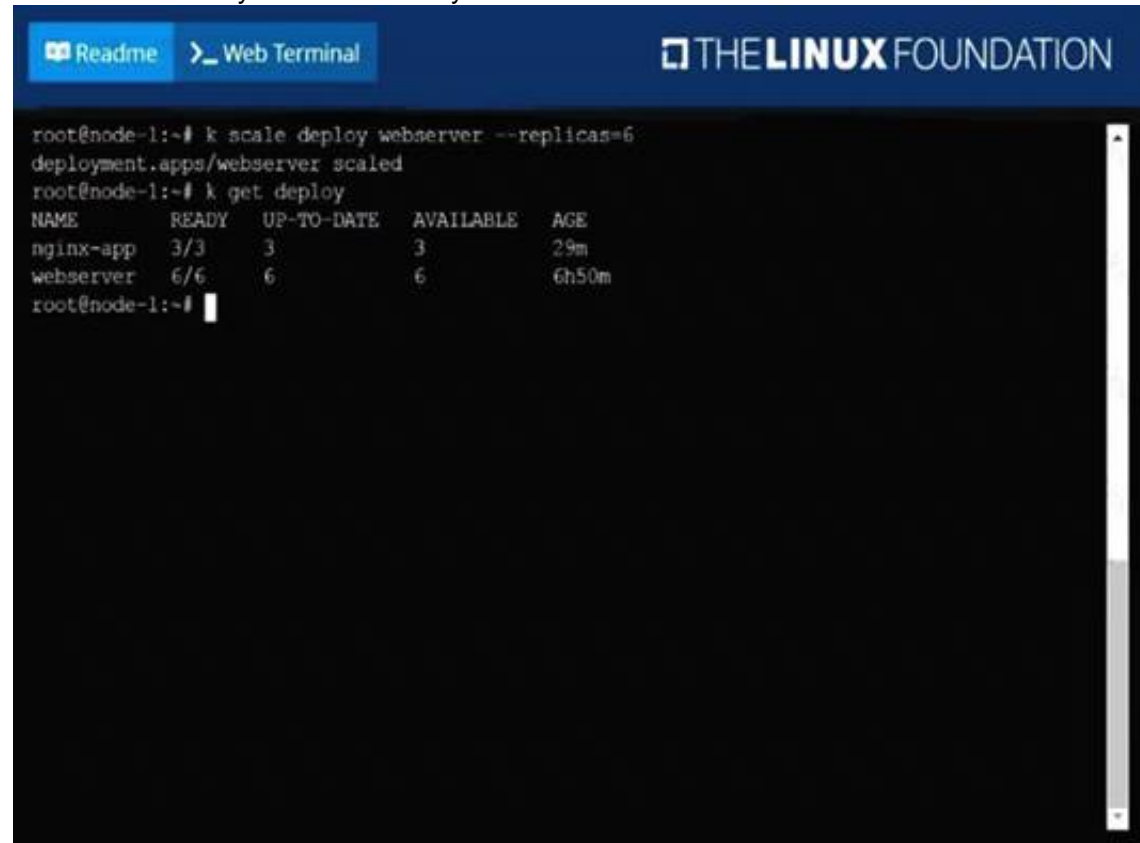
NEW QUESTION 9
Scale the deploymentwebserverto6pods.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution
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NEW QUESTION 10
List all the pods sorted by created timestamp

A. Mastered
B. Not Mastered

Answer: A

Explanation:
kubect1 get pods--sort-by=.metadata.creationTimestamp

NEW QUESTION 10
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
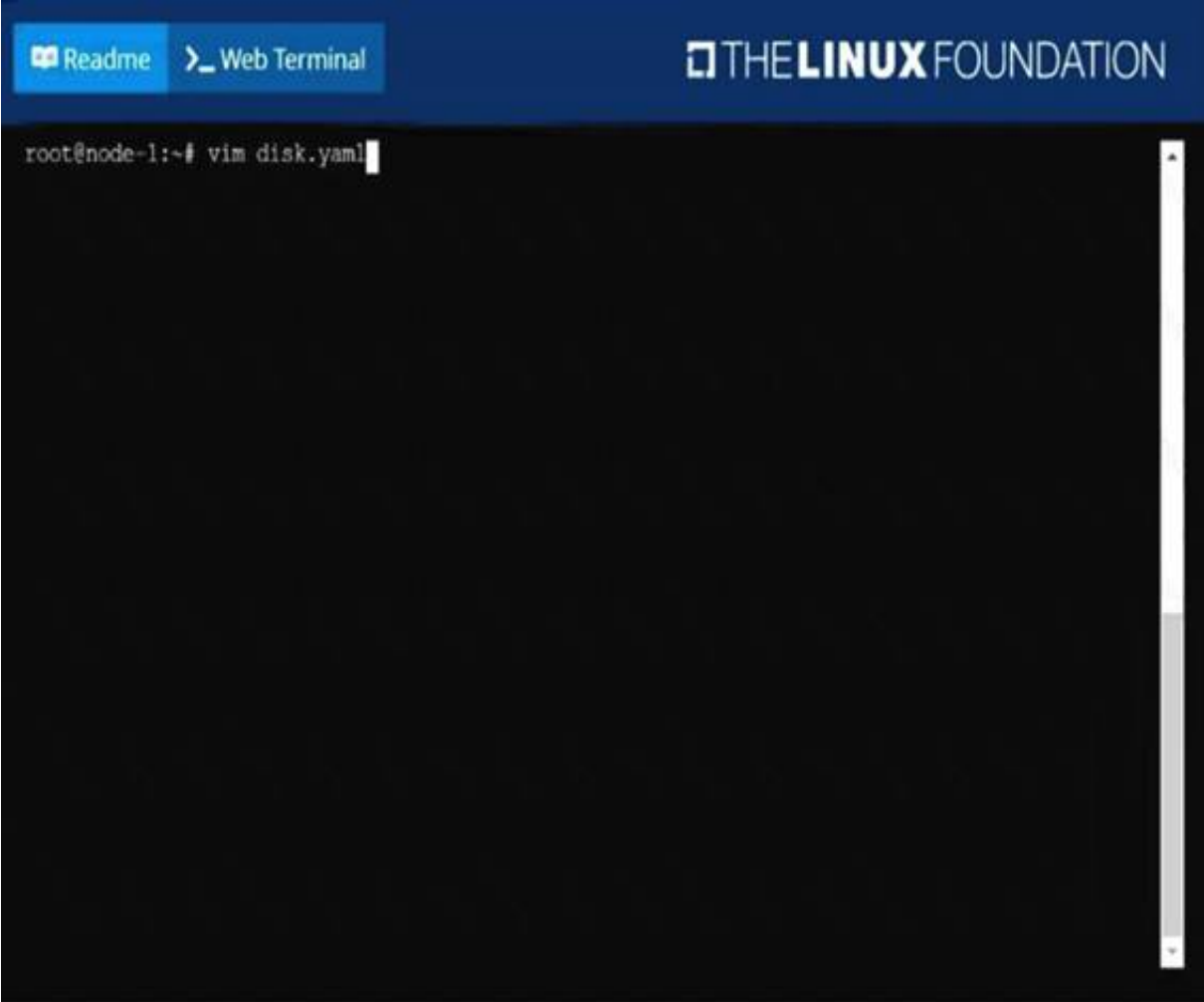
NEW QUESTION 12
Schedule a pod as follows:
➢ Name: nginx-kusc00101
➢ Image: nginx
➢ Node selector: disk=ssd
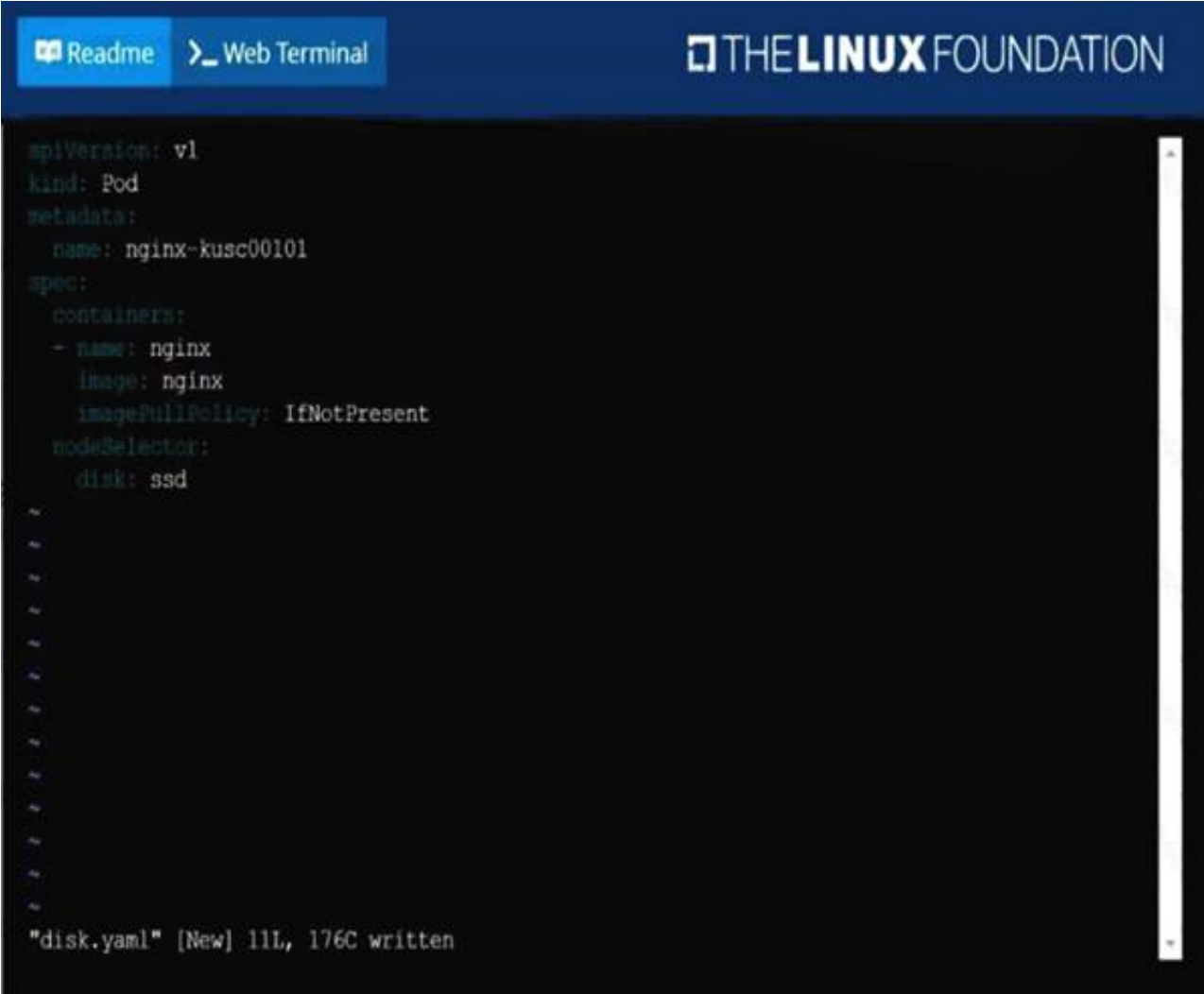
A. Mastered
B. Not Mastered

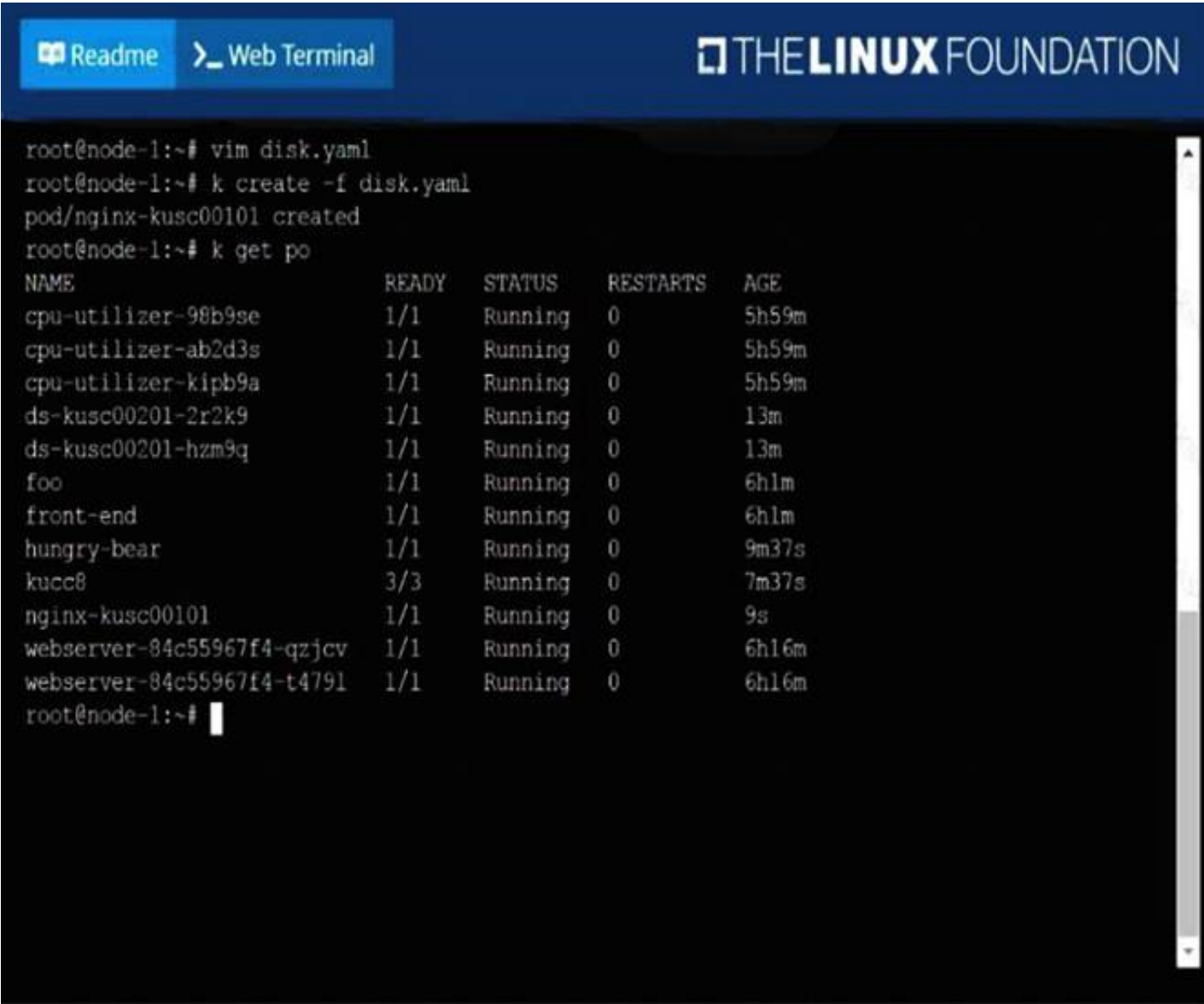**Answer:** A

Explanation:
 solution
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NEW QUESTION 15
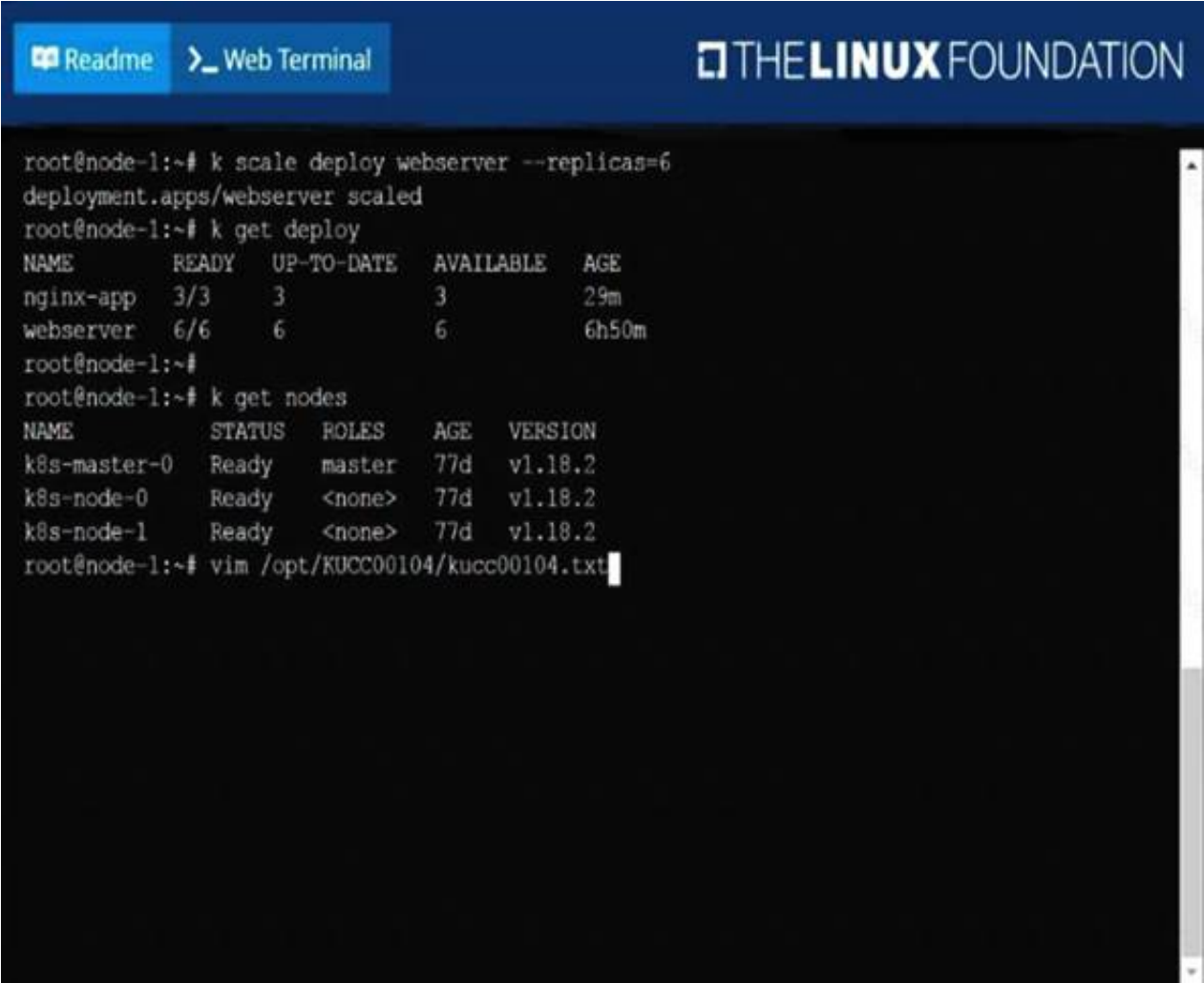Check to see how many worker nodes are ready (not including nodes taintedNoSchedule) and write the number to/opt/KUCC00104/kucc00104.txt.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
 solution
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NEW QUESTION 20
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