

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

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



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

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
```

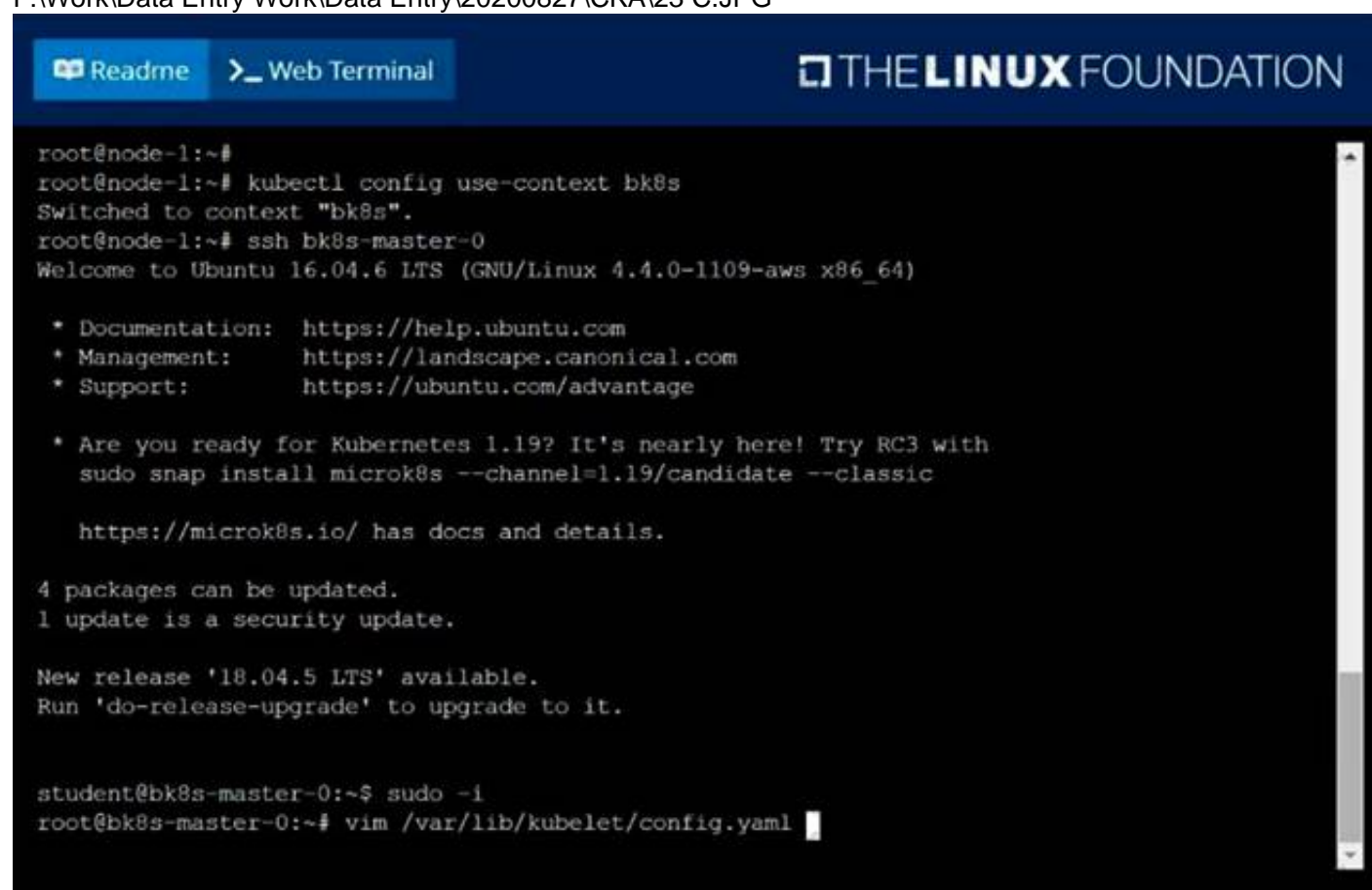
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

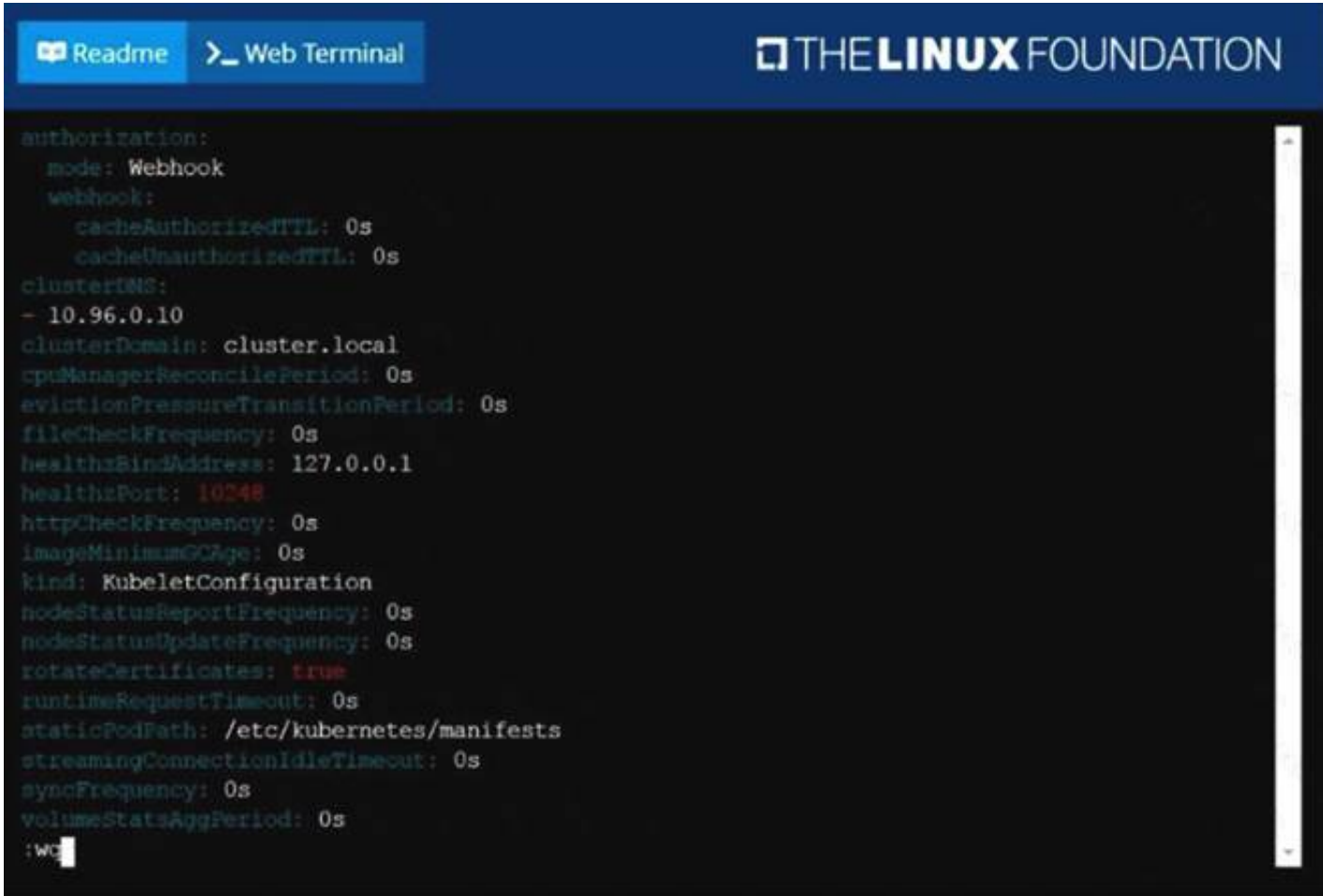
solution

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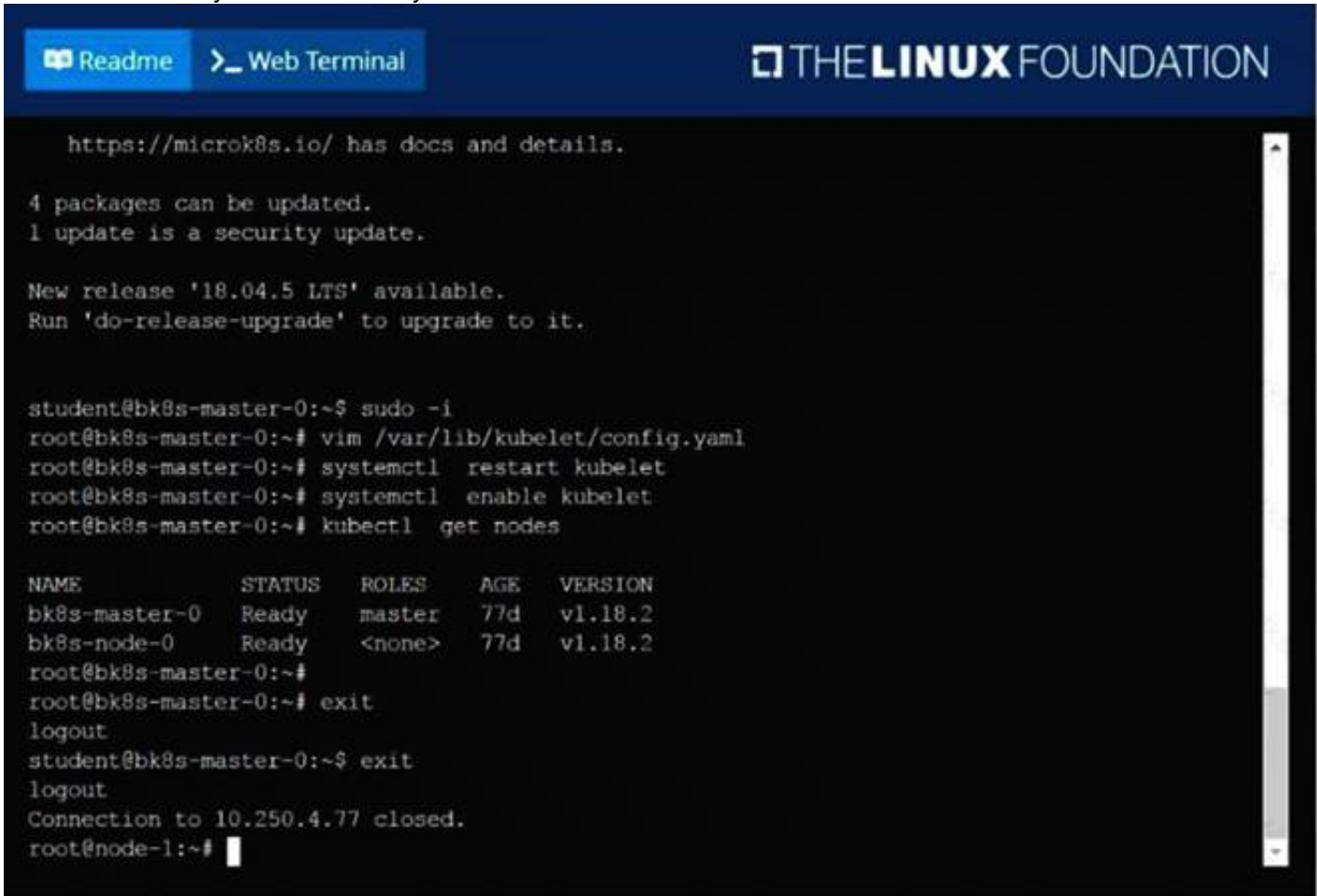


```
Readme Web Terminal THE LINUX FOUNDATION  
  
root@node-1:~#  
root@node-1:~# kubectl config use-context bk8s  
Switched to context "bk8s".  
root@node-1:~# ssh bk8s-master-0  
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-1109-aws x86_64)  
  
 * Documentation:  https://help.ubuntu.com  
 * Management:    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

List the nginx pod with custom columns POD_NAME and POD_STATUS

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 4

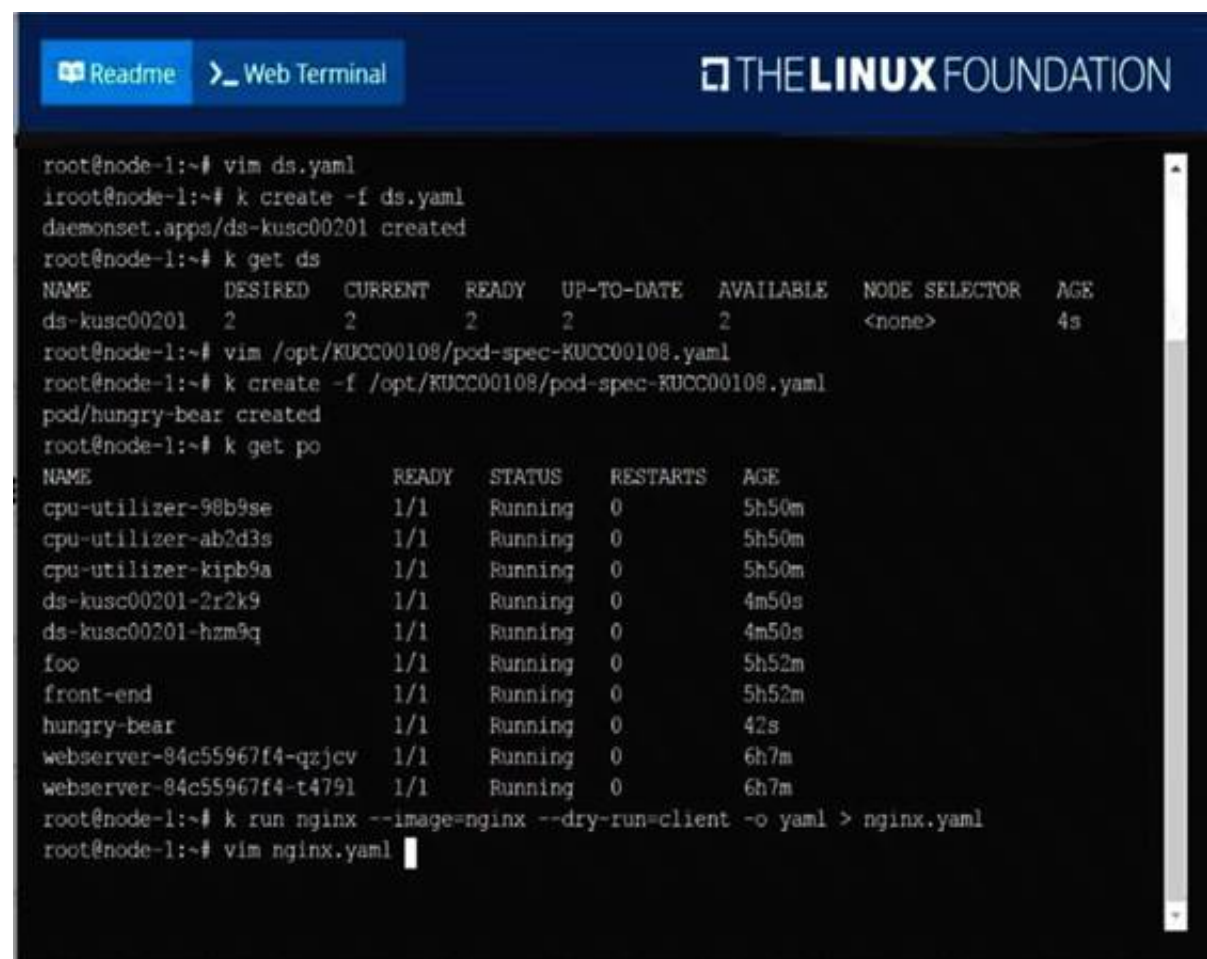
Create a pod namedkucc8with asingle app container for each of the following images running inside(there may be between 1 and 4images specified): nginx + redis + memcached.

- A. Mastered
- B. Not Mastered

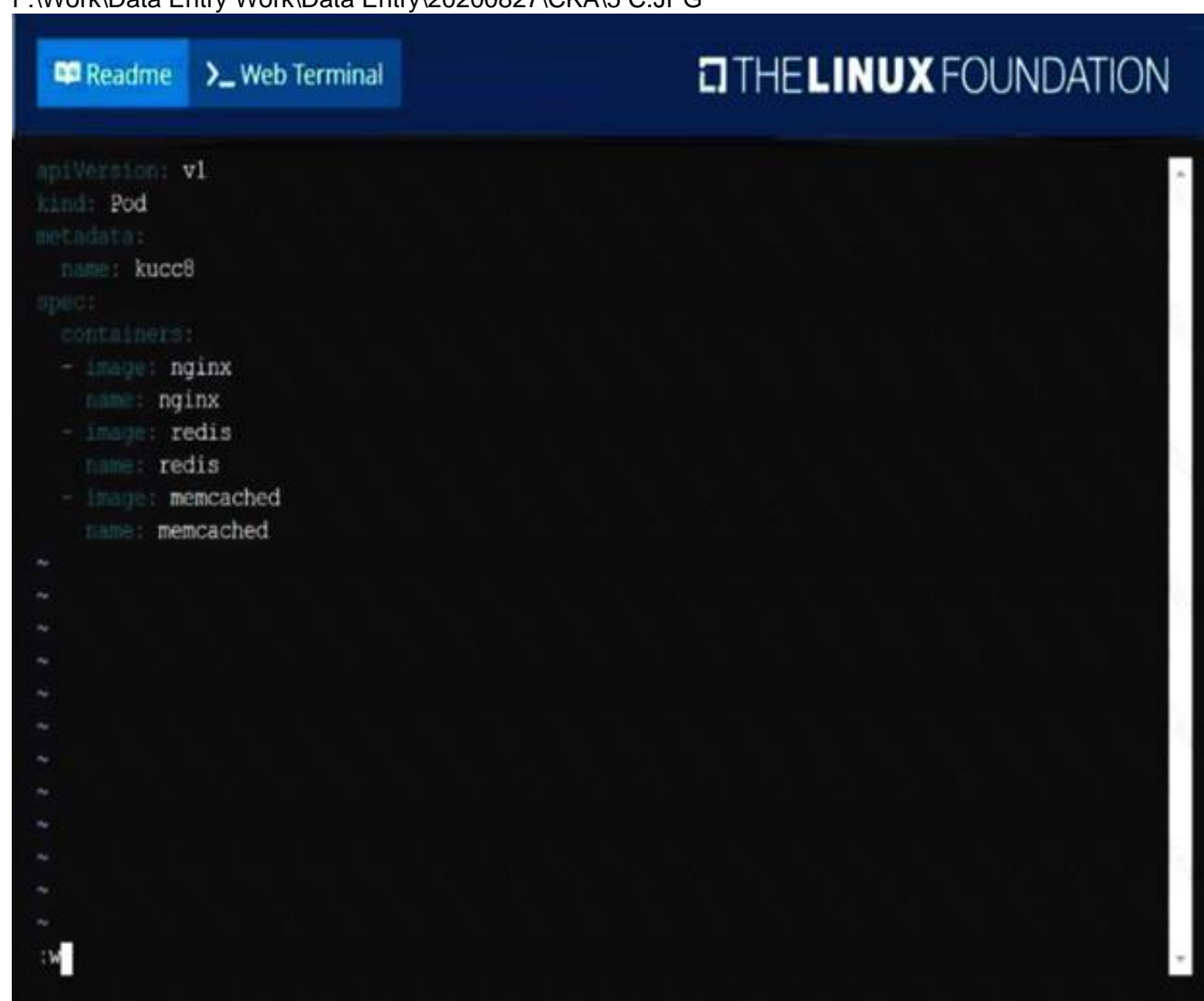
Answer: A

Explanation:

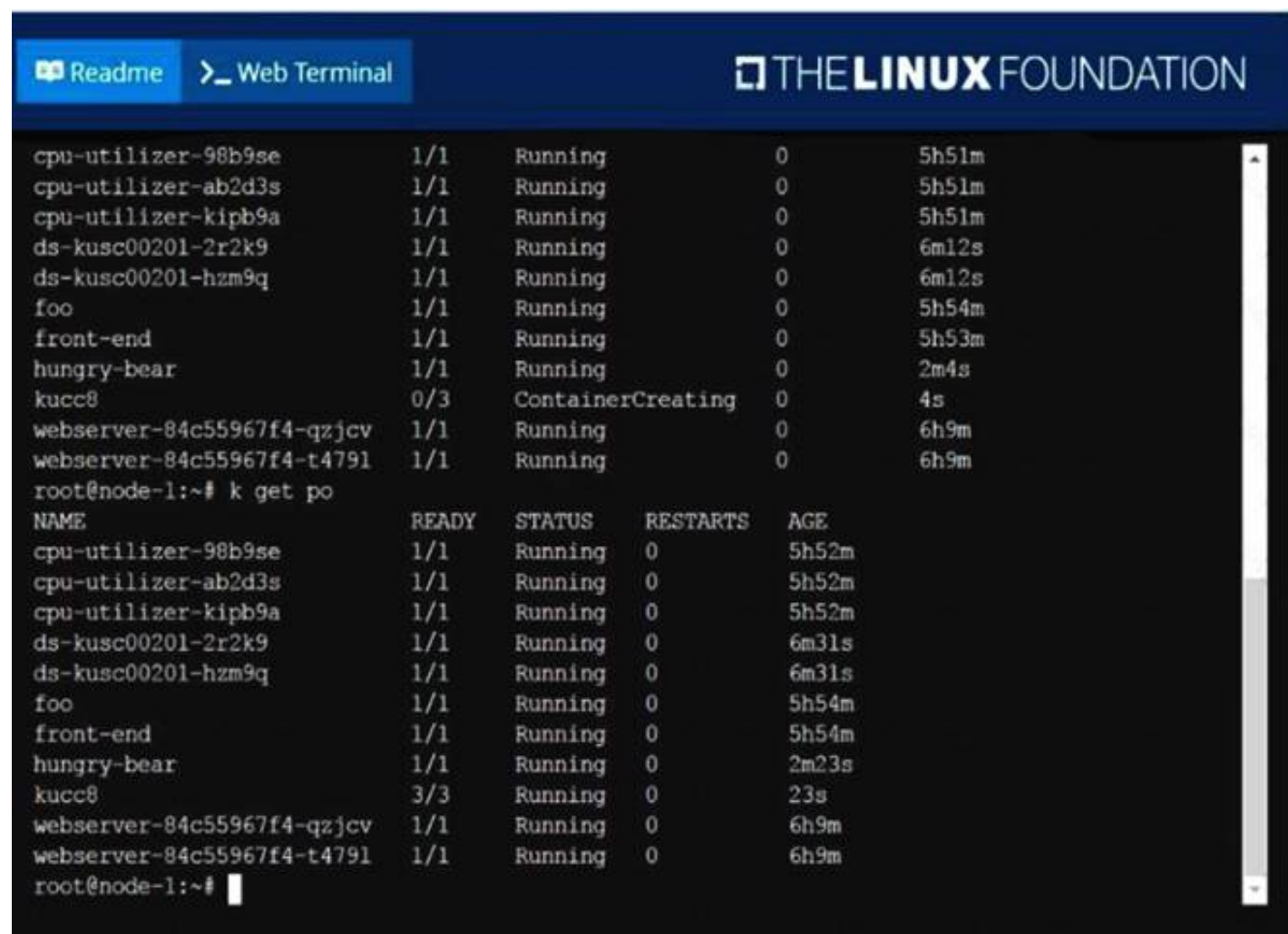
solution
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NEW QUESTION 5

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 6

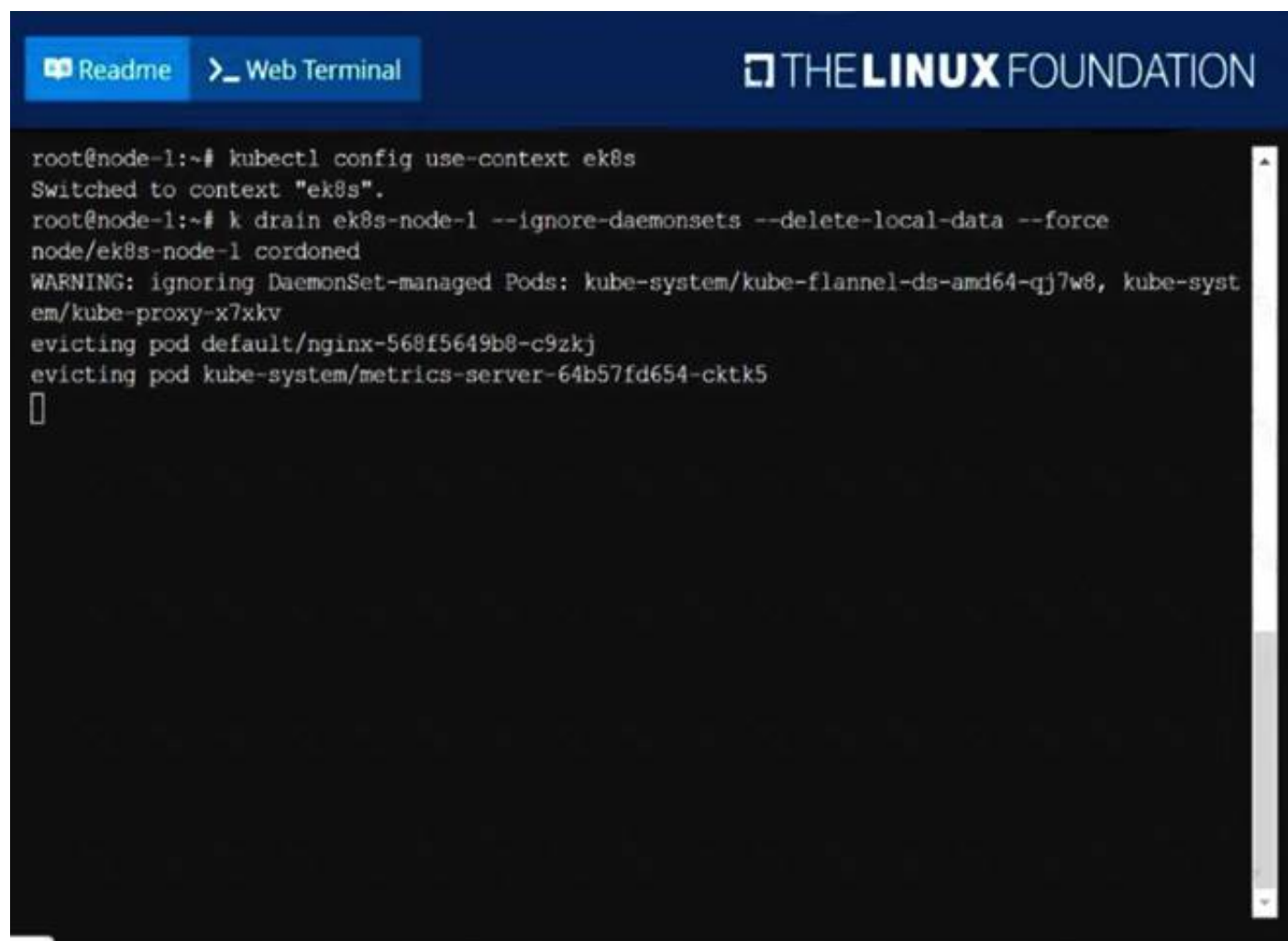
Set the node named ek8s-node-1as unavailable and reschedule all the pods running on it.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution
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```

root@node-1:~# kubectl config use-context ek8s
Switched to context "ek8s".
root@node-1:~# k drain ek8s-node-1 --ignore-daemonsets --delete-local-data --force
node/ek8s-node-1 cordoned
WARNING: ignoring DaemonSet-managed Pods: kube-system/kube-flannel-ds-amd64-qj7w8, kube-syst
em/kube-proxy-x7xkv
evicting pod default/nginx-568f5649b8-c9zkj
evicting pod kube-system/metrics-server-64b57fd654-cktk5

```

NEW QUESTION 7

Create a persistent volume with name `app-data`, of capacity `2Gi` and access mode `ReadWriteMany`. The type of volume is `hostPath` and its location is `/srv/app-data`.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

Persistent Volume

A persistent volume is a piece of storage in a Kubernetes cluster. Persistent Volumes are a cluster-level resource like nodes, which don't belong to any namespace. It is provisioned by the administrator and has a particular file size. This way, a developer deploying their app on Kubernetes need not know the underlying infrastructure. When the developer needs a certain amount of persistent storage for their application, the system administrator configures the cluster so that they consume the Persistent Volume provisioned in an easy way.

Creating Persistent Volume

```
kind: PersistentVolume
apiVersion: v1
metadata:
  name: app-data
spec:
  capacity: # defines the capacity of PV we are creating
  storage: 2Gi # the amount of storage we are trying to claim
  accessModes: # defines the rights of the volume we are creating
  - ReadWriteMany
  hostPath:
    path: "/srv/app-data" # path to which we are creating the volume
```

Challenge

➤ Create a Persistent Volume named `app-data`, with access mode `ReadWriteMany`, storage class name `shared`, `2Gi` of storage capacity and the host path `/srv/app-data`.

"app-data.yaml" 12L, 194C

```
njerry191@cloudshell:~ (extreme-clone-265411)$ kubectl create -f pv.yaml
persistentvolume/pv created
```

```
njerry191@cloudshell:~ (extreme-clone-265411)$ kubectl get pv
```

NAME	CAPACITY	ACCESS MODES	RECLAIM POLICY	STATUS	CLAIM	STORAGECLASS	REASON	AGE
app-data	2Gi	RWX	Retain	Available		shared		31s

* 3. View the pvc Image for post

```
njerry191@cloudshell:~ (extreme-clone-265411)$ kubectl get pvc
```

NAME	STATUS	VOLUME	CAPACITY	ACCESS MODES	STORAGECLASS
pv	Bound	pv	512m	RWX	shared

```
njerry191@cloudshell:~ (extreme-clone-265411)$ kubectl get pv
```

NAME	CAPACITY	ACCESS MODES	RECLAIM POLICY	STATUS	CLAIM	STORAGECLASS	REASON	AGE
pv	512m	RWX	Retain	Bound	default/pv	shared	16m	

```
apiVersion: v1kind: Podmetadata:creationTimestamp: nullname: app-dataspec:volumes:- name:congigvpvcpersistenVolumeClaim:claimName: app-datacontainers:- image: nginxname: appvolumeMounts:- mountPath: "/srv/app-data"name: configpvc
```

A. Mastered
B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 9

Create a namespace called 'development' and a pod with image nginx called nginx on this namespace.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubect! create namespace development

kubect! run nginx --image=nginx --restart=Never -n development

NEW QUESTION 10

Create a pod as follows:

- > Name:non-persistent-redis
- > container Image:redis
- > Volume with name:cache-control
- > Mount path:/data/redis

The pod should launch in thestagingnamespace and the volumemust notbe persistent.

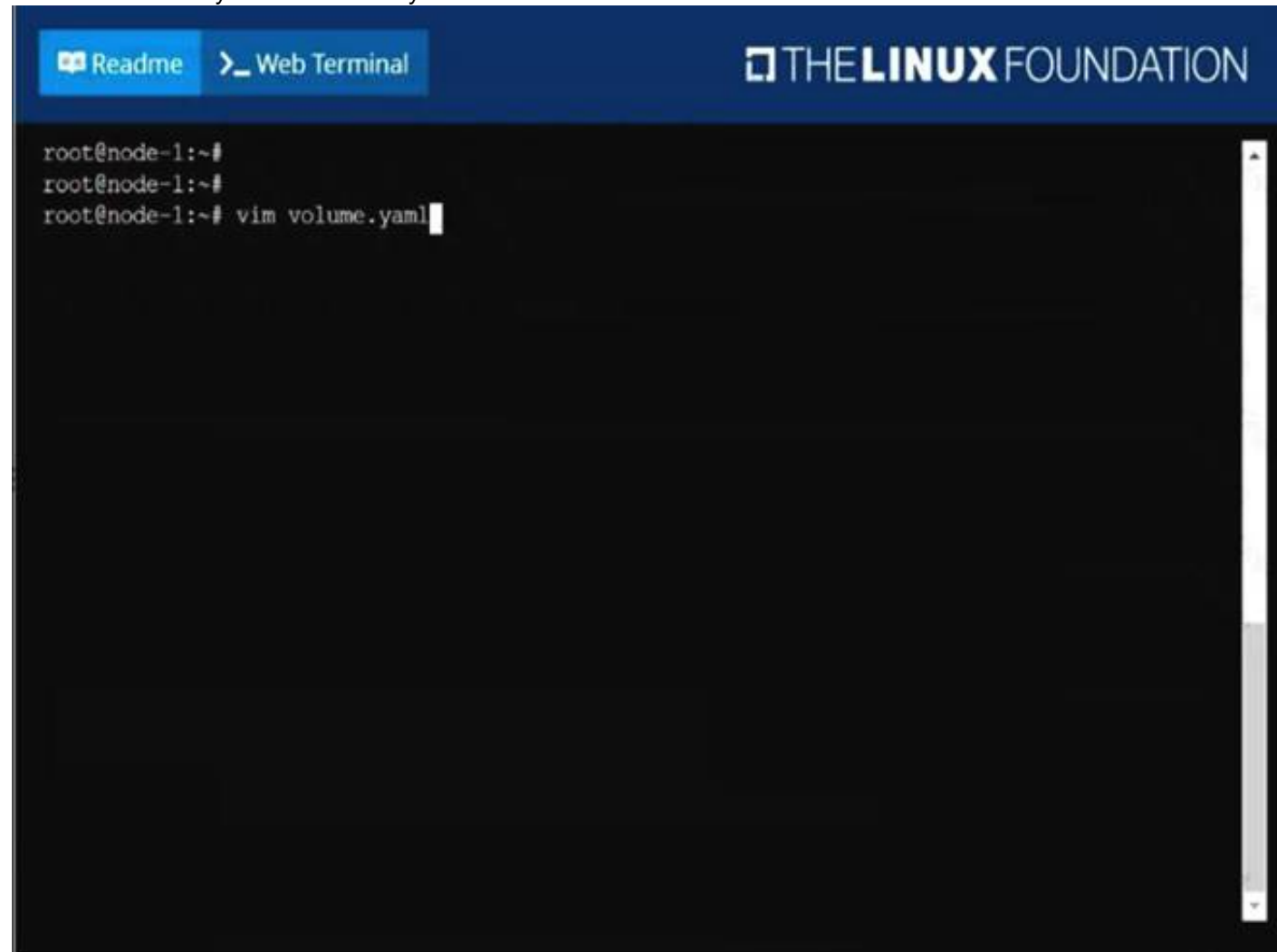
- A. Mastered
- B. Not Mastered

Answer: A

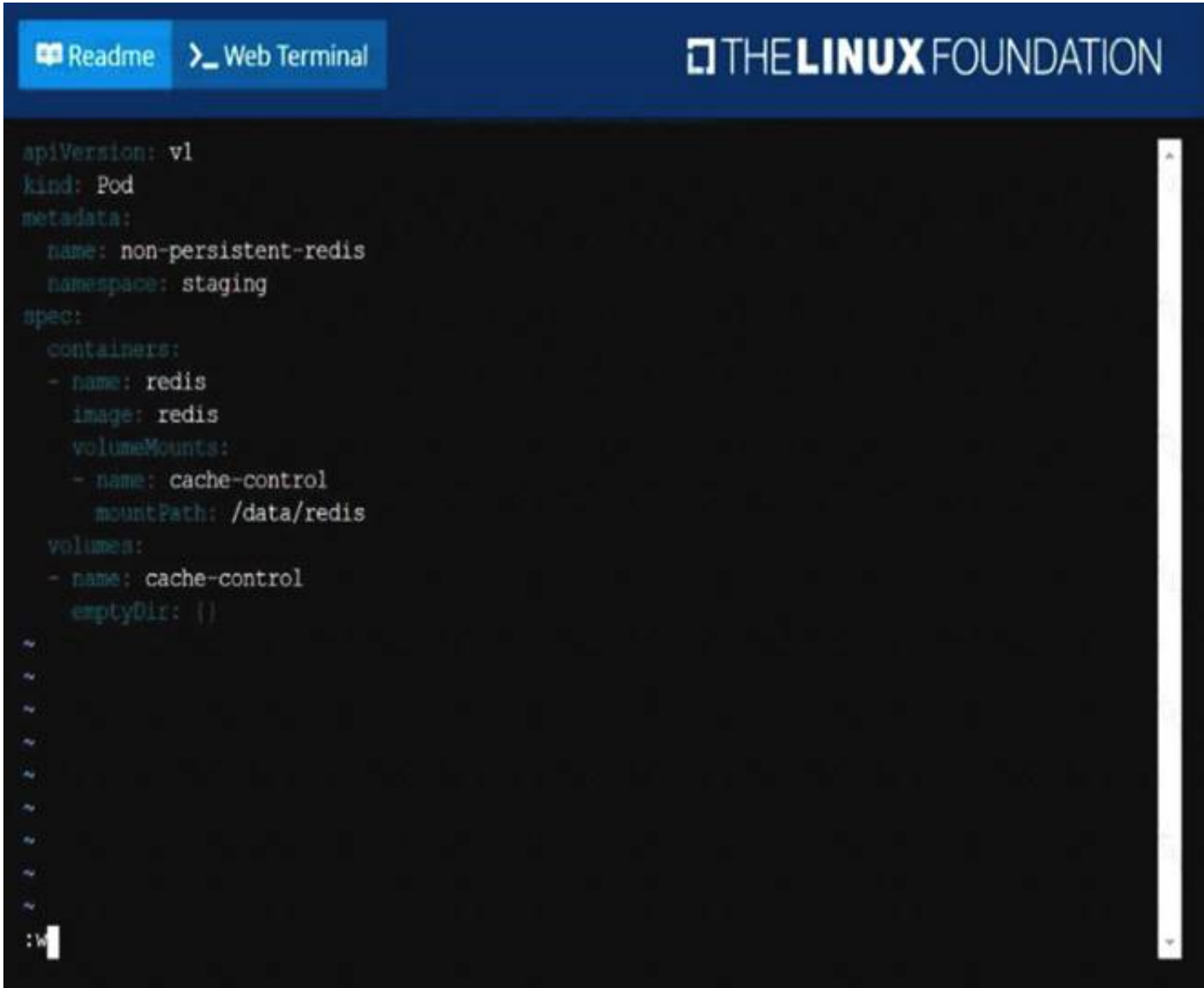
Explanation:

solution

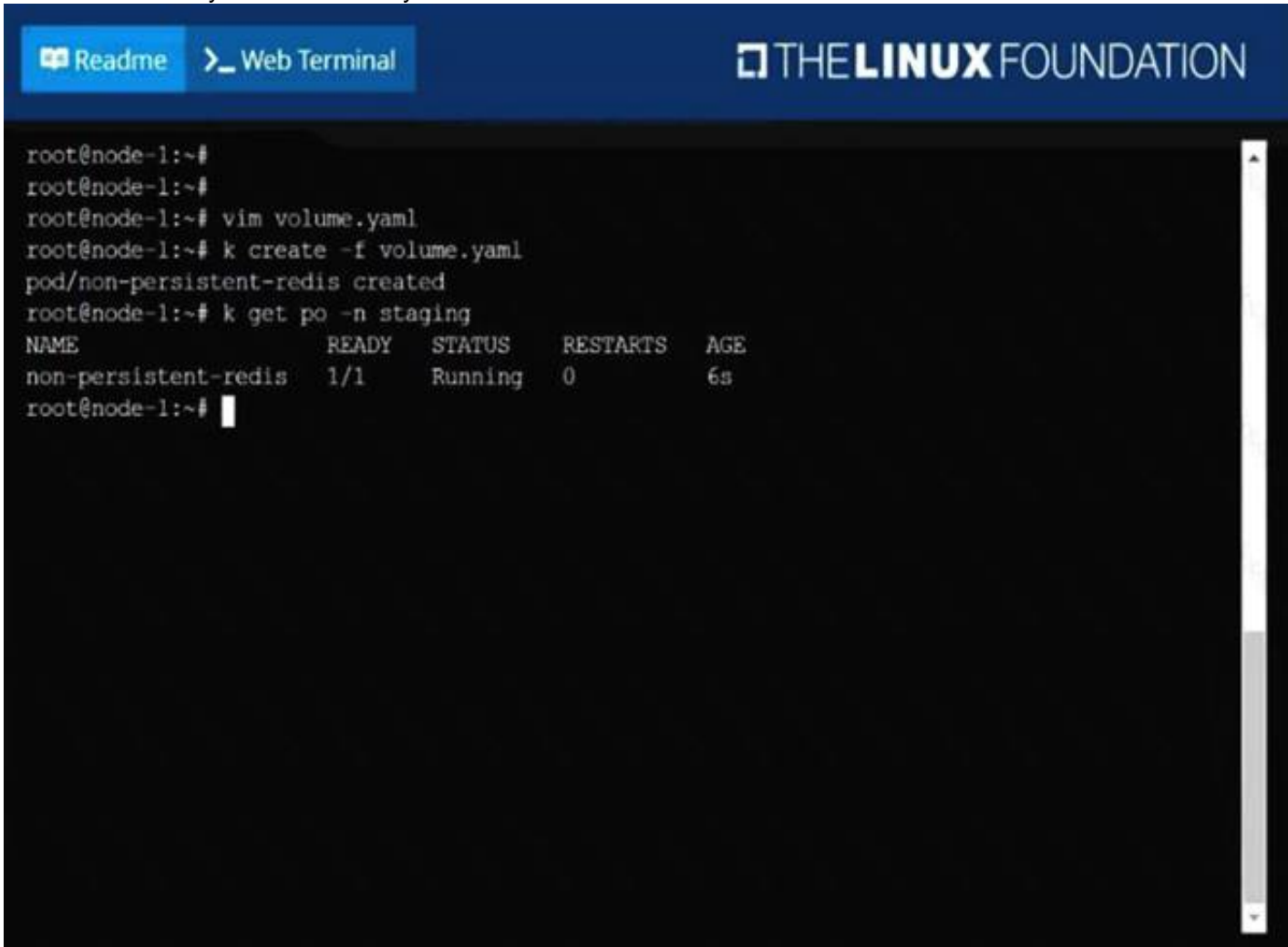
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NEW QUESTION 10

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 15

List the nginx pod with custom columns `POD_NAME` and `POD_STATUS`

- A. Mastered

B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 20

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 ?Ci

A. Mastered

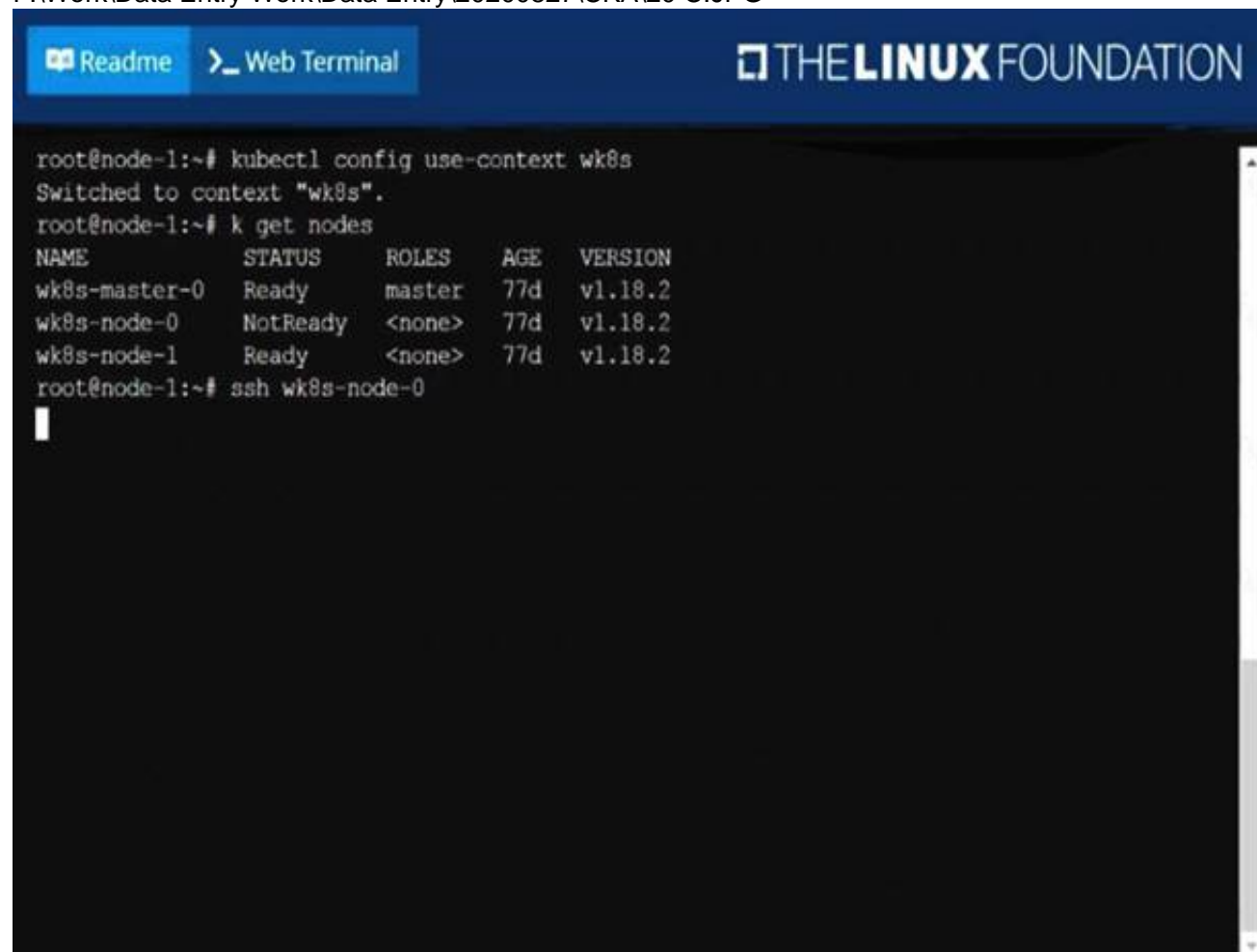
B. Not Mastered

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
root@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 24

Create a file:

/opt/KUCC00302/kucc00302.txtthatlists all pods that implement servicebazin namespacedevelopment.

The format of the file should be onepod name per line.

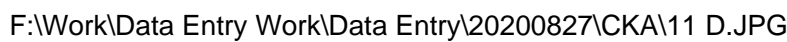
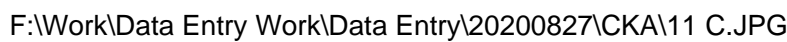
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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NEW QUESTION 27

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 30

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 33

.....

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