

CKA Dumps

Certified Kubernetes Administrator (CKA) Program

<https://www.certleader.com/CKA-dumps.html>



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

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 3

Monitor the logs of pod foo and:

- > Extract log lines corresponding to error unable-to-access-website
- > Write them to /opt/KULM00201/foo




- A. Mastered
- B. Not Mastered

Answer: A

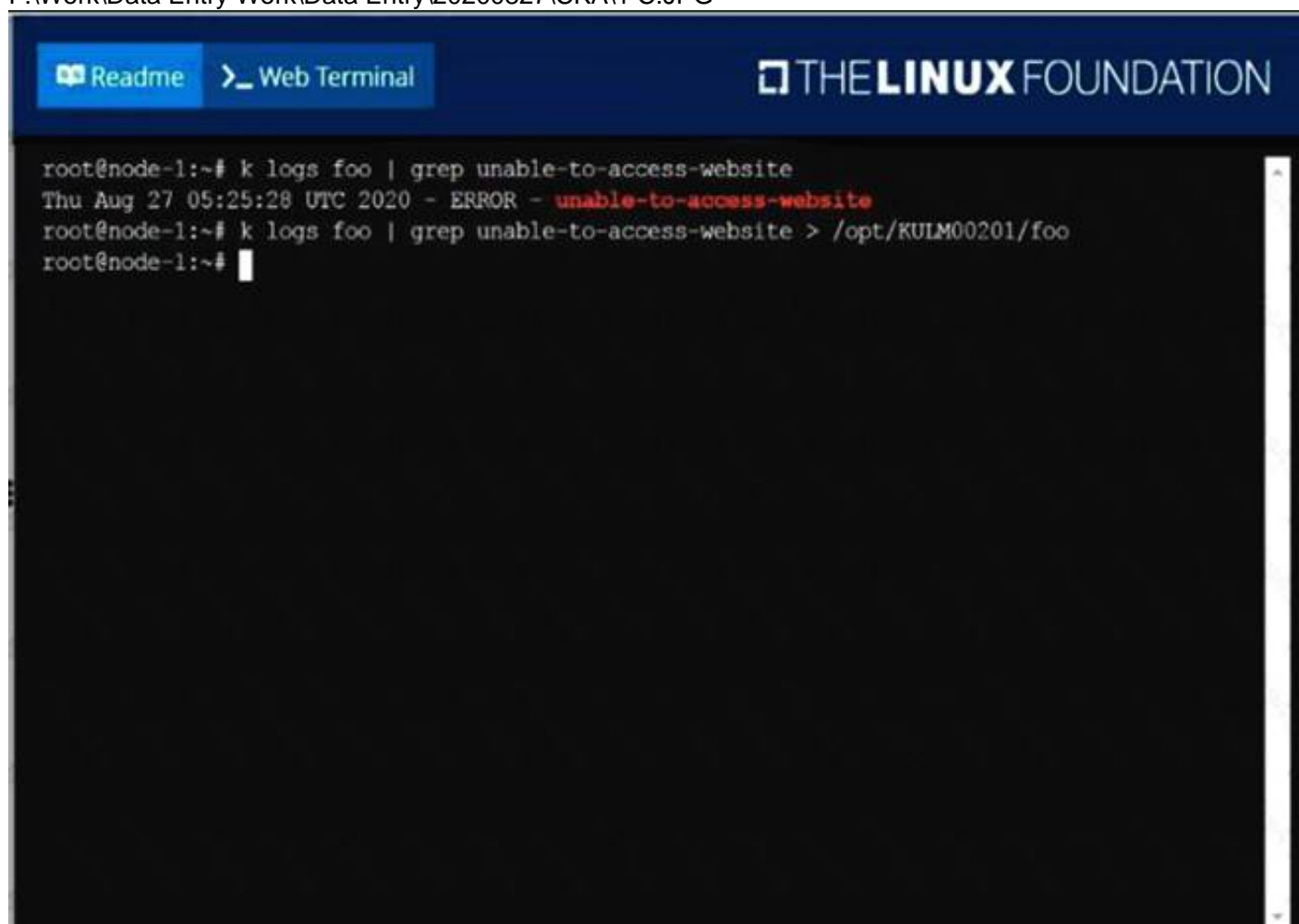
Explanation:

solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\1 B.JPG



```
student@node-1:~$
student@node-1:~$ sudo -i
root@node-1:~# alias k=kubectl
root@node-1:~#
```

F:\Work\Data Entry Work\Data Entry\20200827\CKA\1 C.JPG



```
root@node-1:~# k logs foo | grep unable-to-access-website
Thu Aug 27 05:25:28 UTC 2020 - ERROR - unable-to-access-website
root@node-1:~# k logs foo | grep unable-to-access-website > /opt/KULM00201/foo
root@node-1:~#
```

NEW QUESTION 4

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 5

Create a pod as follows:

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

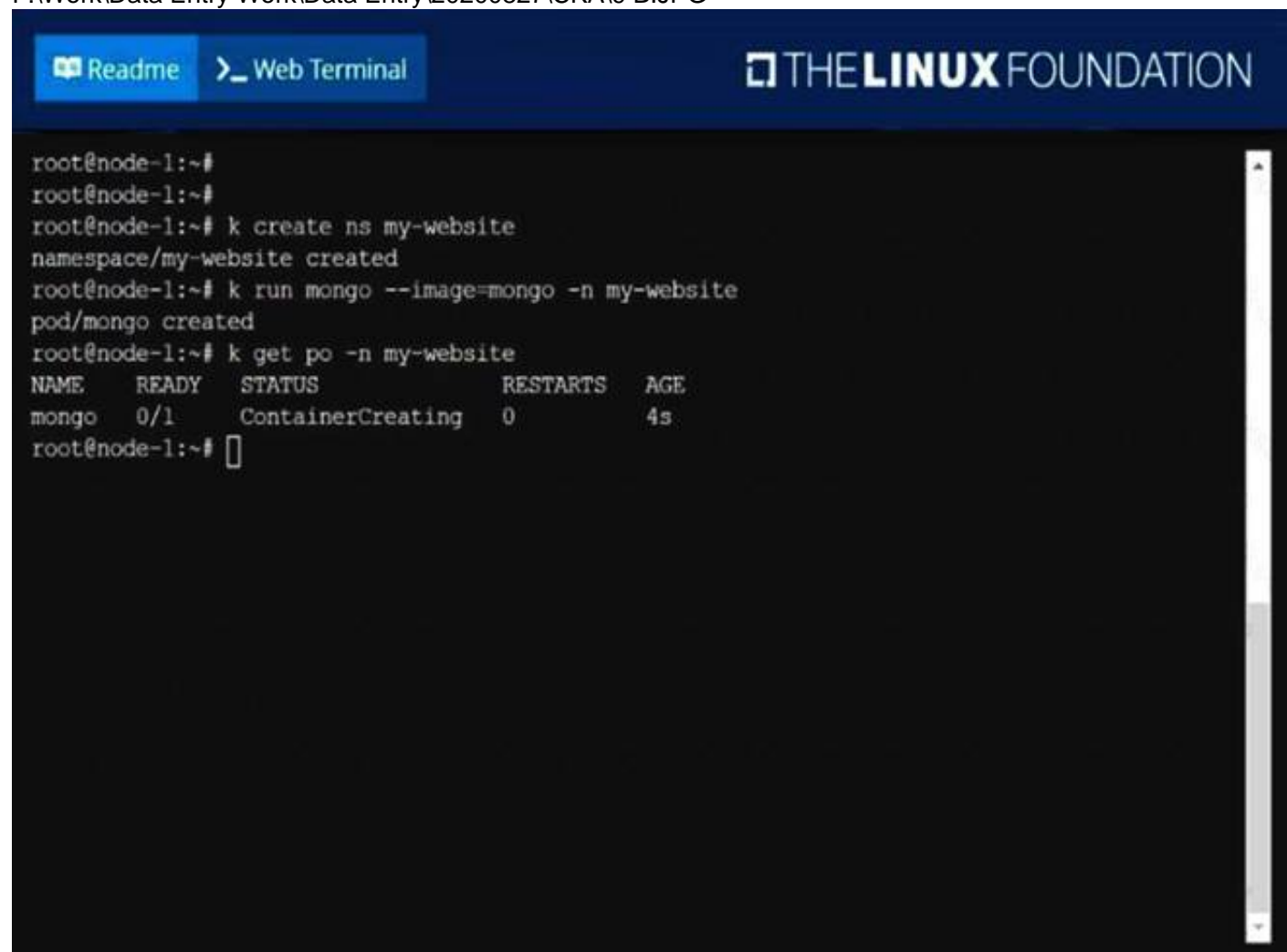
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\9 B.JPG



```
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 6

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 7

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 8

List all persistent volumes sorted bycapacity, saving the fullkubectloutput to /opt/KUCC00102/volume_list. Usekubectl 's own functionality forsorting the output, and do not manipulate it any further.

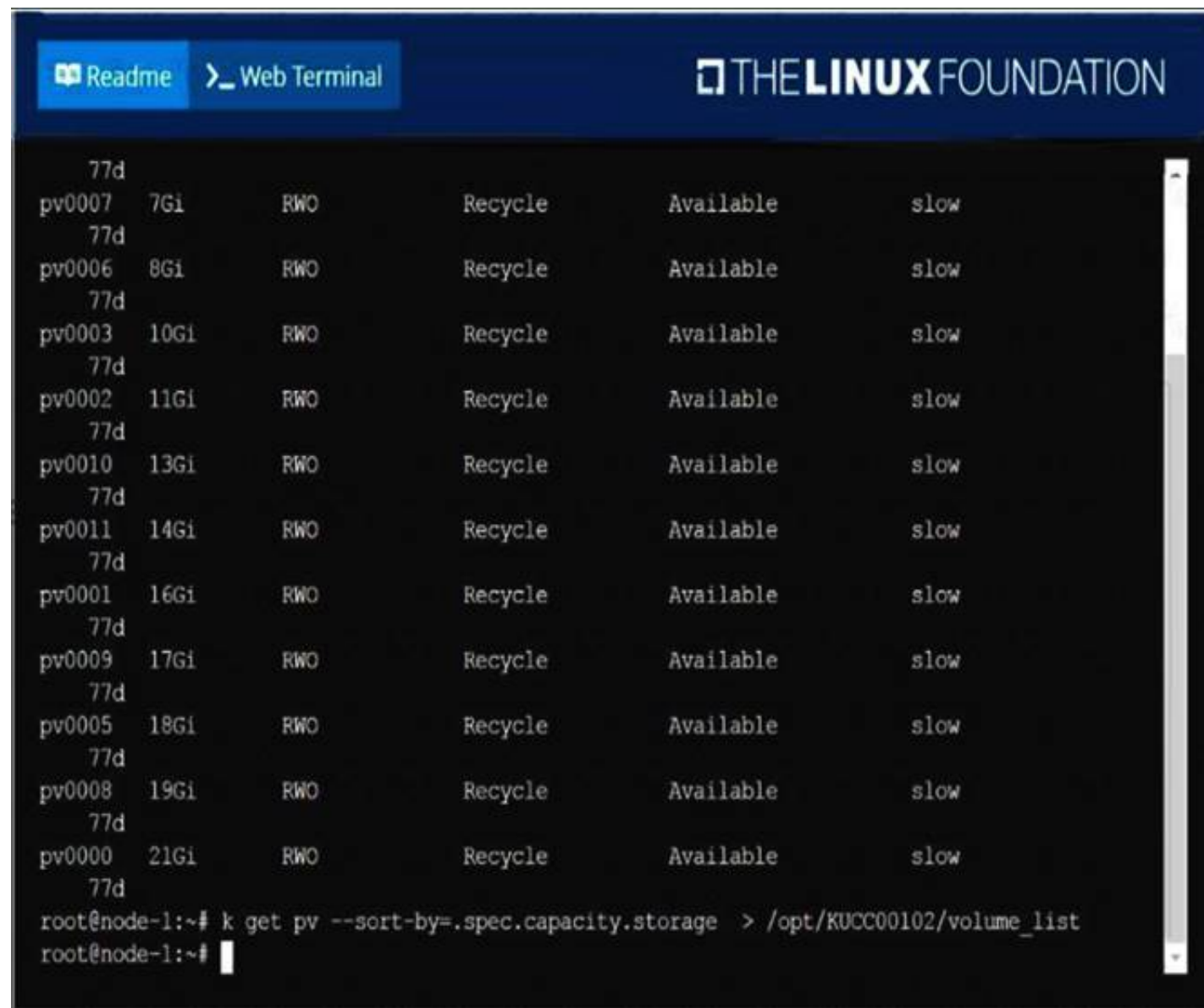
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\2 C.JPG



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:

kubectl create namespace development
kubectl 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

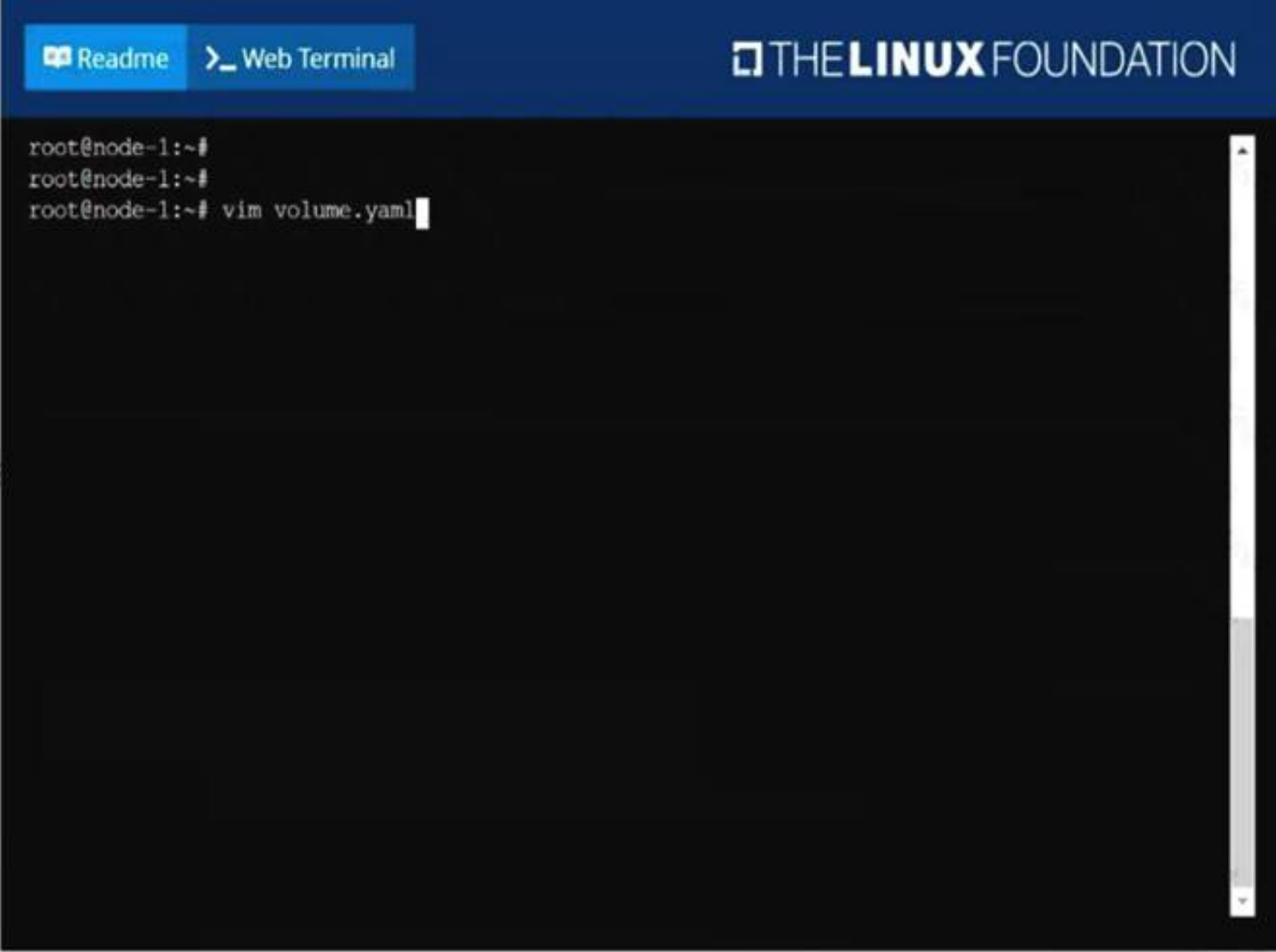
The pod should launch in the staging namespace and the volume must not be persistent.

- A. Mastered
- B. Not Mastered

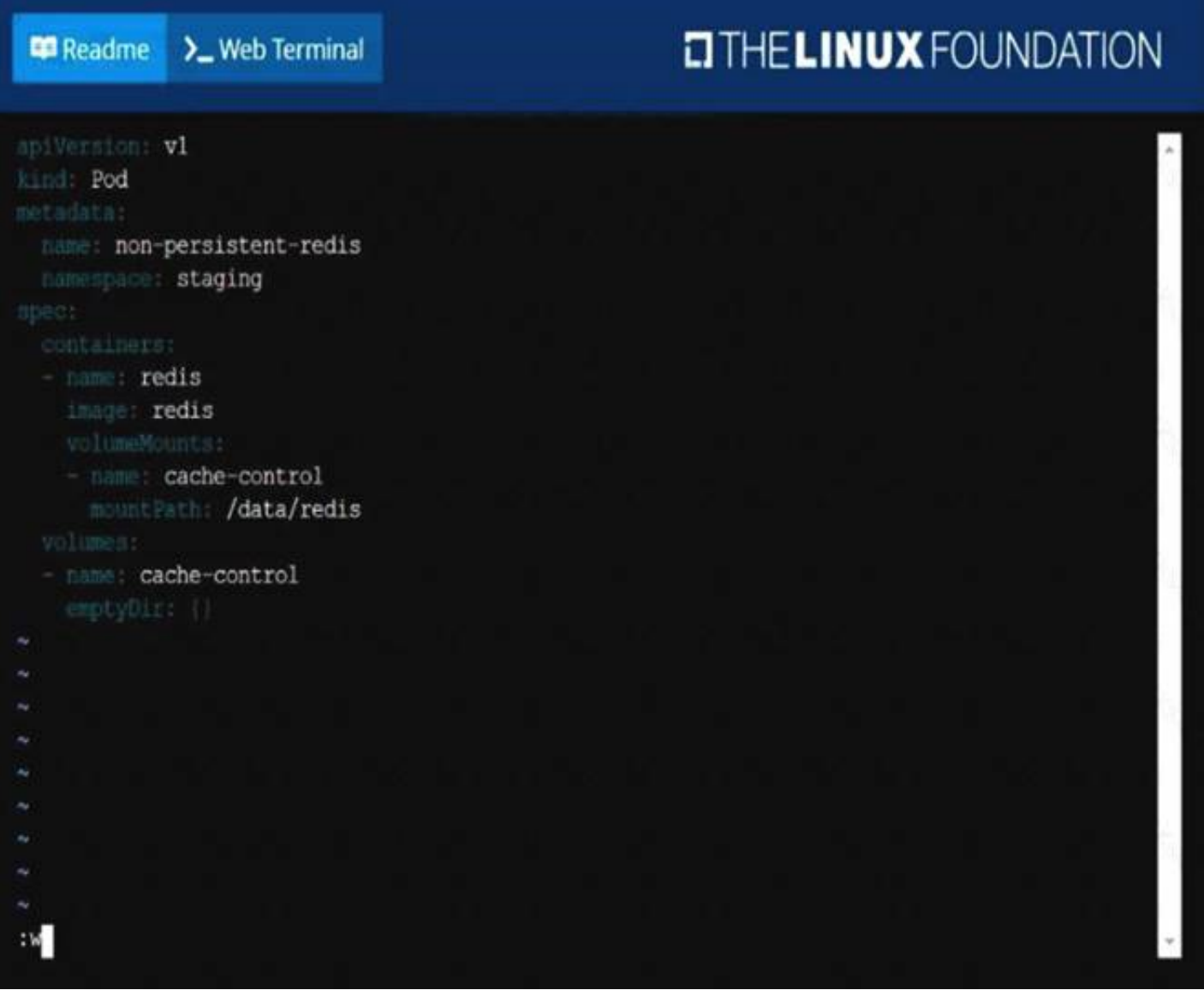
Answer: A

Explanation:

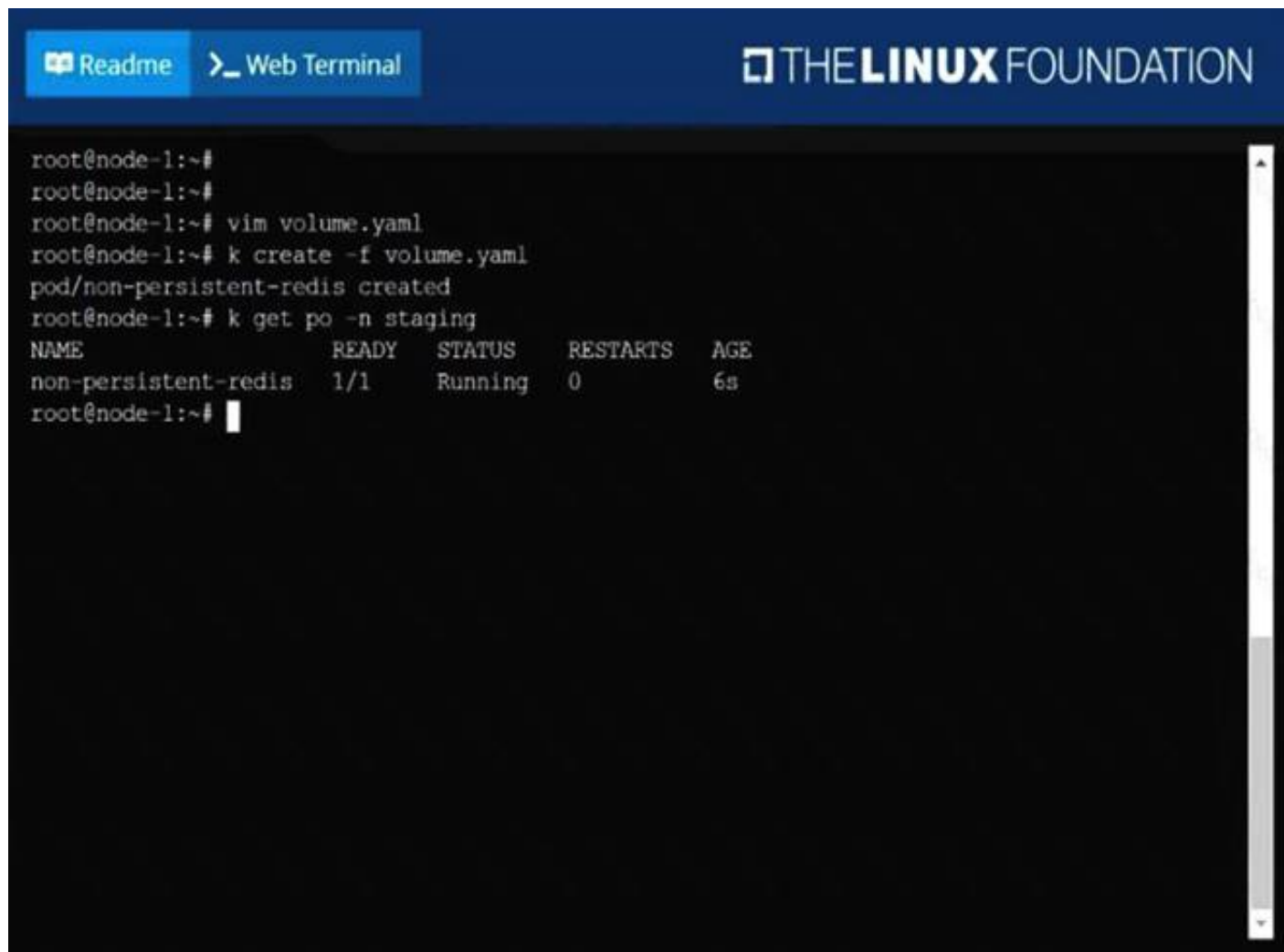
solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\13 B.JPG



F:\Work\Data Entry Work\Data Entry\20200827\CKA\13 C.JPG



F:\Work\Data Entry Work\Data Entry\20200827\CKA\13 D.JPG



```
root@node-1:~#  
root@node-1:~#  
root@node-1:~# vim volume.yaml  
root@node-1:~# k create -f volume.yaml  
pod/non-persistent-redis created  
root@node-1:~# k get po -n staging  
NAME                READY   STATUS    RESTARTS   AGE  
non-persistent-redis 1/1     Running   0           6s  
root@node-1:~#
```

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:

`kubectl run busybox --image=busybox --restart=Never --rm -it -- env > envpod.yaml`

NEW QUESTION 13

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 15

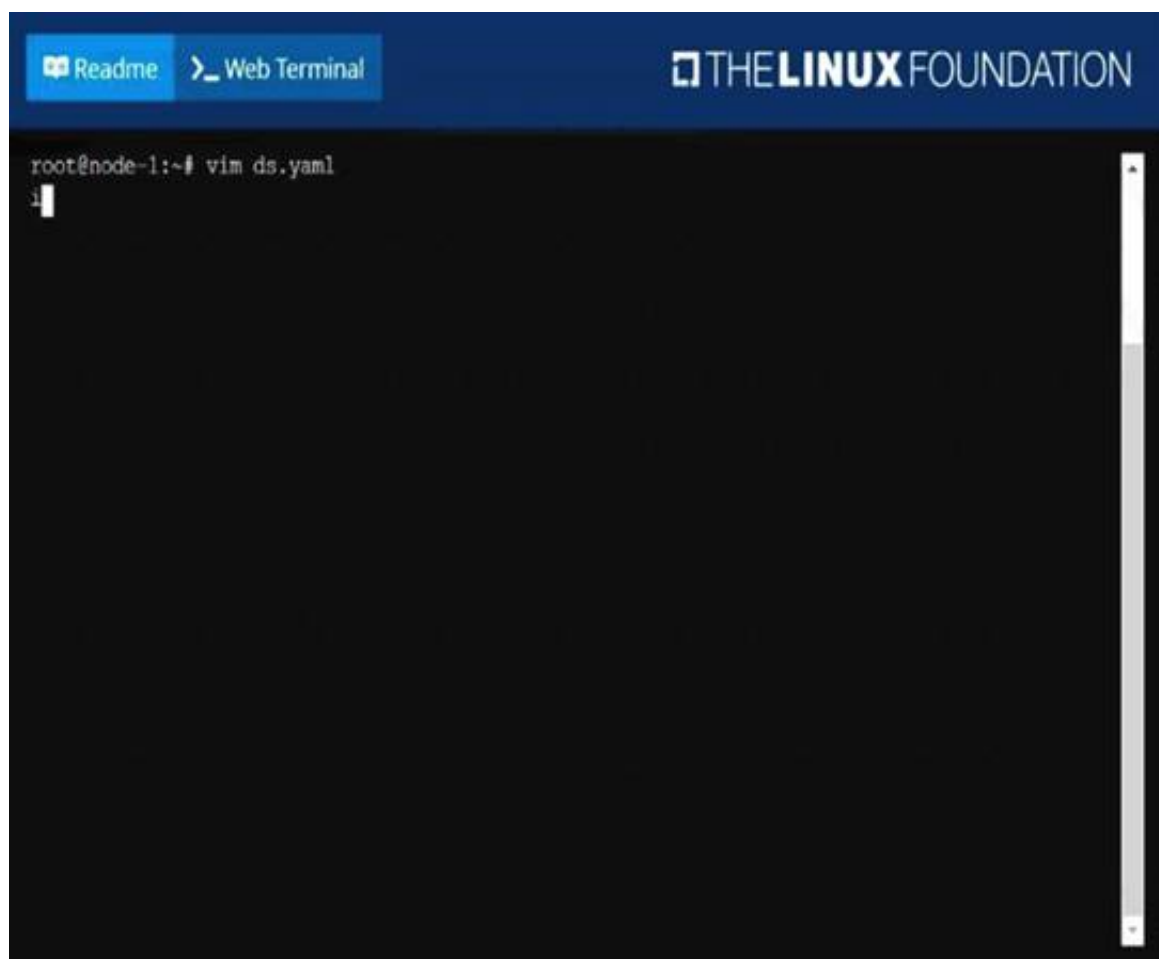
Ensure a single instance of `podnginx` is running on each node of the Kubernetes cluster where `nginx` also represents the Image name which has to be used. Do not override any taints currently in place. Use `DaemonSet` to complete this task and use `nginx-daemonset` as DaemonSet name.

- A. Mastered
- B. Not Mastered

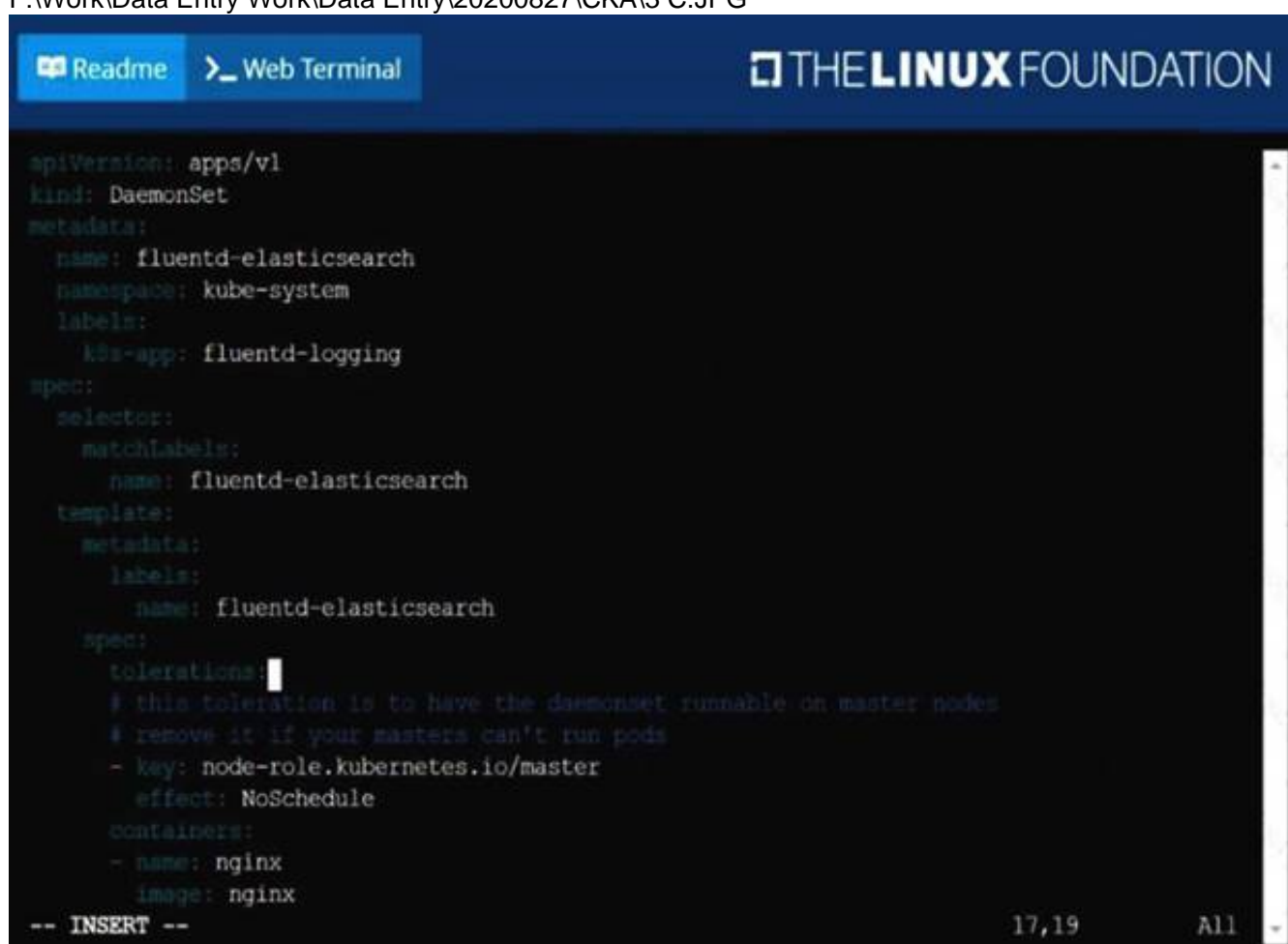
Answer: A

Explanation:

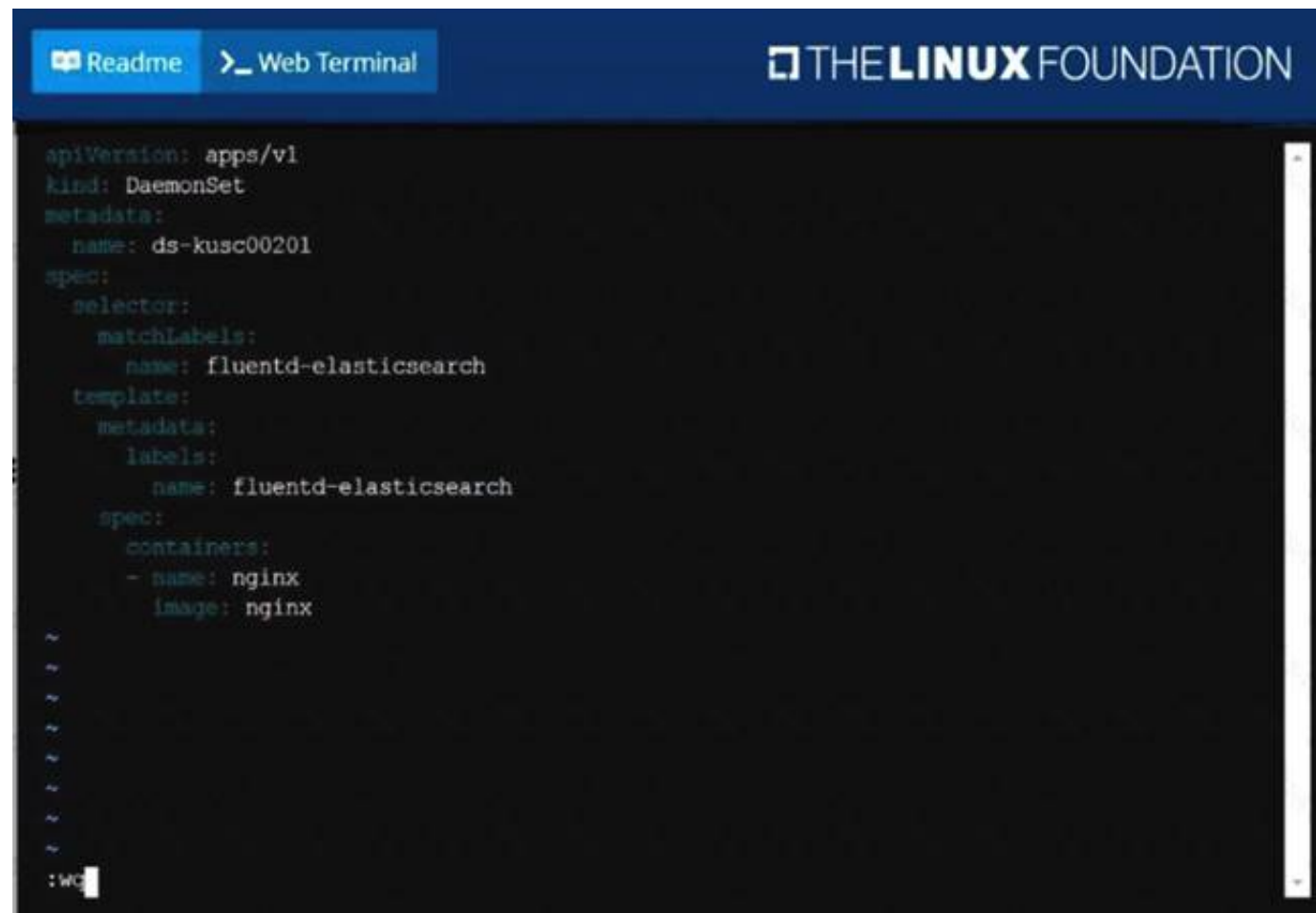
solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\3 B.JPG



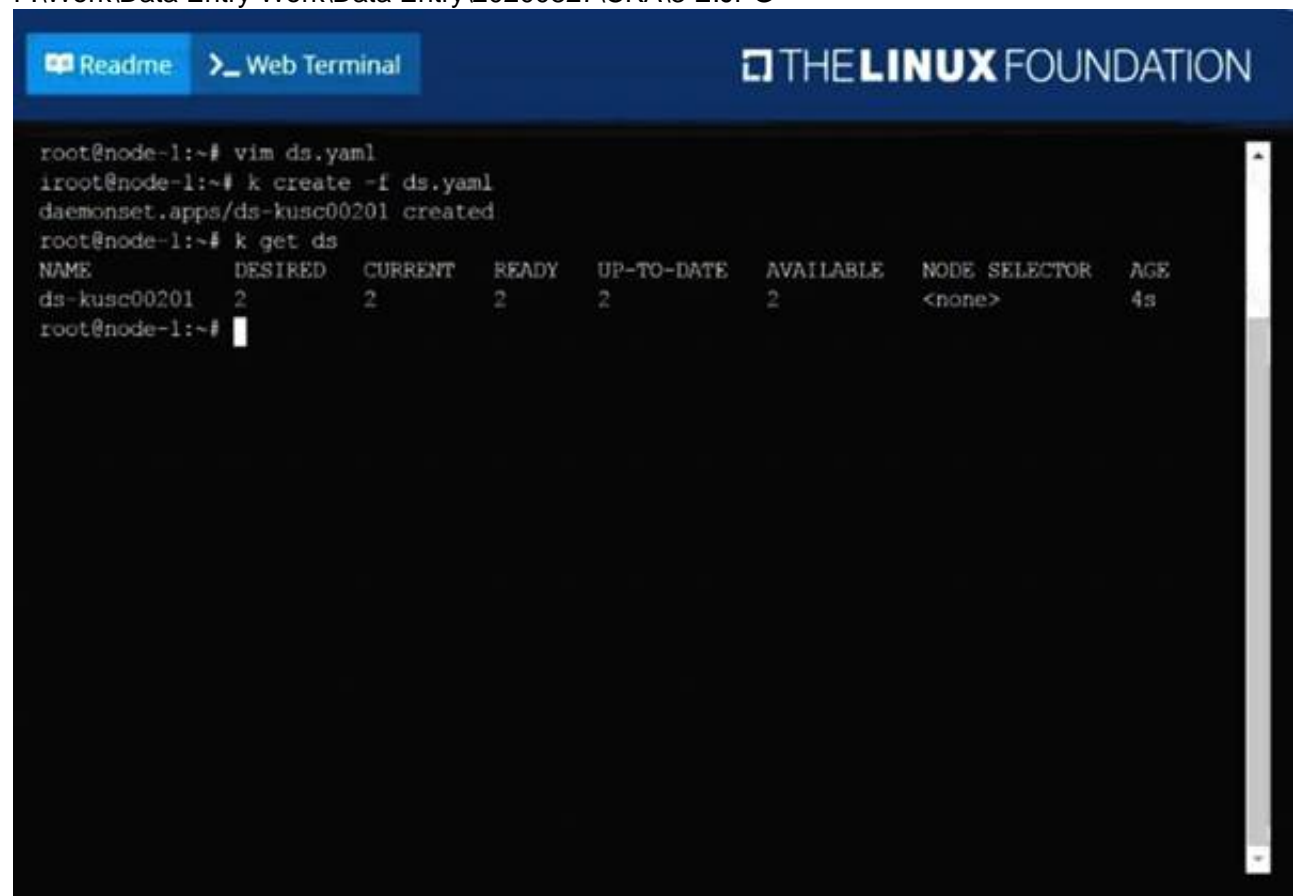
F:\Work\Data Entry Work\Data Entry\20200827\CKA\3 C.JPG



F:\Work\Data Entry Work\Data Entry\20200827\CKA\3 D.JPG



F:\Work\Data Entry Work\Data Entry\20200827\CKA\3 E.JPG



NEW QUESTION 17

Get list of all pods in all namespaces and write it to file ??/opt/pods-list.yaml??

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubectl get po ?Call-namespaces > /opt/pods-list.yaml

NEW QUESTION 20

Get list of all the pods showing name and namespace with a jsonpath expression.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubectl get pods -o=jsonpath="{.items[*]}['metadata.name', 'metadata.namespace']}"

NEW QUESTION 21

Check the image version in pod without the describe command

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
kubectl get po nginx -o jsonpath='{.spec.containers[].image}'
```

NEW QUESTION 22

Create 2 nginx image pods in which one of them is labelled with env=prod and another one labelled with env=dev and verify the same.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubectl run --generator=run-pod/v1 --image=nginx -- labels=env=prod nginx-prod --dry-run -o yaml > nginx-prodpod.yaml Now, edit nginx-prod-pod.yaml file and remove entries like ??creationTimestamp: null?? ??dnsPolicy: ClusterFirst??

```
vim nginx-prod-pod.yaml apiVersion: v1
```

```
kind: Pod metadata: labels: env: prod
```

```
name: nginx-prod spec:
```

```
containers:
```

```
- image: nginx name: nginx-prod
```

```
restartPolicy: Always
```

```
# kubectl create -f nginx-prod-pod.yaml
```

```
kubectl run --generator=run-pod/v1 --image=nginx -- labels=env=dev nginx-dev --dry-run -o yaml > nginx-dev-pod.yaml apiVersion: v1
```

```
kind: Pod metadata: labels: env: dev
```

```
name: nginx-dev
```

```
spec: containers:
```

```
- image: nginx name: nginx-dev
```

```
restartPolicy: Always
```

```
# kubectl create -f nginx-prod-dev.yaml Verify :
```

```
kubectl get po --show-labels kubectl get po -l env=prod kubectl get po -l env=dev
```

NEW QUESTION 23

Configure the kubelet systemd-managed service, on the node labelled with name=wk8s-node-1, to launch a pod containing a single container of Image http://nginx.org/nginx-1.16.0-1.el7.ngx.rpm. 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 ?Ci
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\21 C.JPG



The screenshot shows a terminal window with a dark background. At the top, there is a blue header bar with 'Readme' and 'Web Terminal' buttons, and 'THE LINUX FOUNDATION' logo. The terminal content shows a user switching to the 'wk8s' context and SSH-ing into 'wk8s-node-1'. The welcome message for Ubuntu 16.04.6 LTS is displayed, followed by links for documentation, management, and support. A message about Kubernetes 1.19 is also present. The user then runs 'sudo -i' to become root and starts editing the '/var/lib/kubelet/config.yaml' file with 'vim'.

```

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.

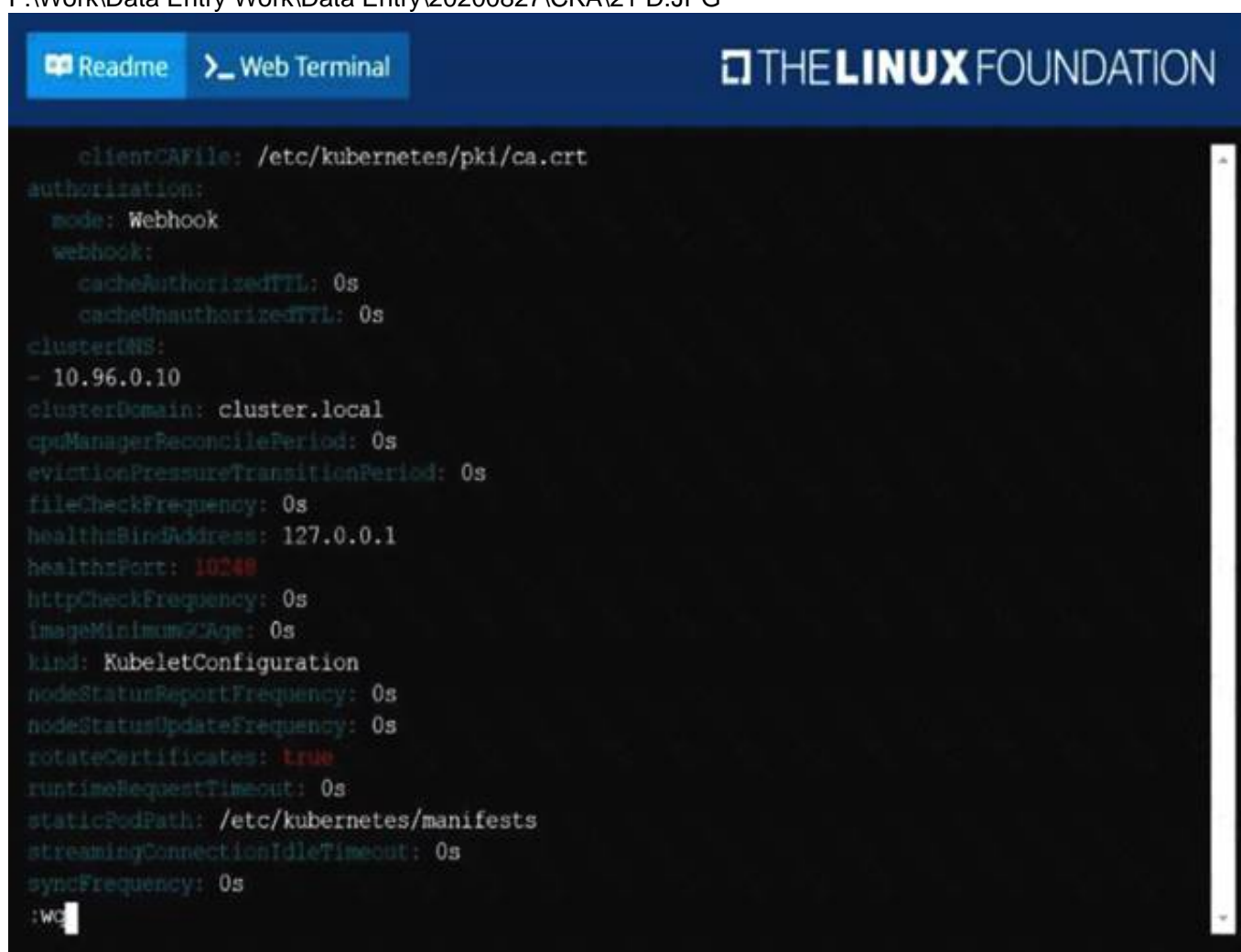
4 packages can be updated.
1 update is a security update.

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

```

F:\Work\Data Entry Work\Data Entry\20200827\CKA\21 D.JPG



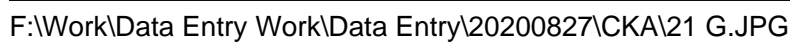
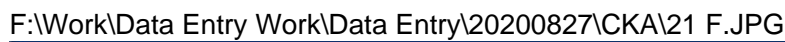
The screenshot shows a terminal window with a dark background. At the top, there is a blue header bar with 'Readme' and 'Web Terminal' buttons, and 'THE LINUX FOUNDATION' logo. The terminal content shows the configuration for the kubelet, including clientCAFile, authorization mode (Webhook), cacheTTLs, clusterDNS, clusterDomain, and various timeout and frequency settings. The user is currently editing the file with 'vim'.

```

  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
:WQ

```

F:\Work\Data Entry Work\Data Entry\20200827\CKA\21 E.JPG




```

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
root@wk8s-node-1:/etc/kubernetes/manifests# systemctl restart kubelet
root@wk8s-node-1:/etc/kubernetes/manifests# systemctl enable kubelet
root@wk8s-node-1:/etc/kubernetes/manifests# exit
logout
student@wk8s-node-1:~$ exit
logout
Connection to 10.250.5.39 closed.
root@node-1:~# k get po
NAME                READY   STATUS    RESTARTS   AGE
webtool-wk8s-node-1  1/1     Running   0           11s
root@node-1:~#

```

NEW QUESTION 28

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

For this item, you will have to `ssh` to the `node1` and complete all tasks on this node. Ensure that you return to the base node (`hostname: node-1`) when you have completed this item.

Context

As an administrator of a small development team, you have been asked to set up a Kubernetes cluster to test the viability of a new application.

Task

You must use `kubeadm` to perform this task. Any `kubeadm` invocations will require the use of the

`--ignore-preflight-errors=all` option.

- > Configure the `node1` as a master node.
- > Join the `node2` to the cluster.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

You must use the `kubeadm` configuration file located at `/etc/kubeadm.conf` when initializing your cluster.

You may use any CNI plugin to complete this task, but if you don't have your favourite CNI plugin's manifest URL at hand, Calico is one popular option: <https://docs.projectcalico.org/v3.14/manifests/calico.yaml>

Docker is already installed on both nodes and `iptables` has been configured so that you can install the required tools.

NEW QUESTION 35

Scale the deployment `webserver` to 6 pods.

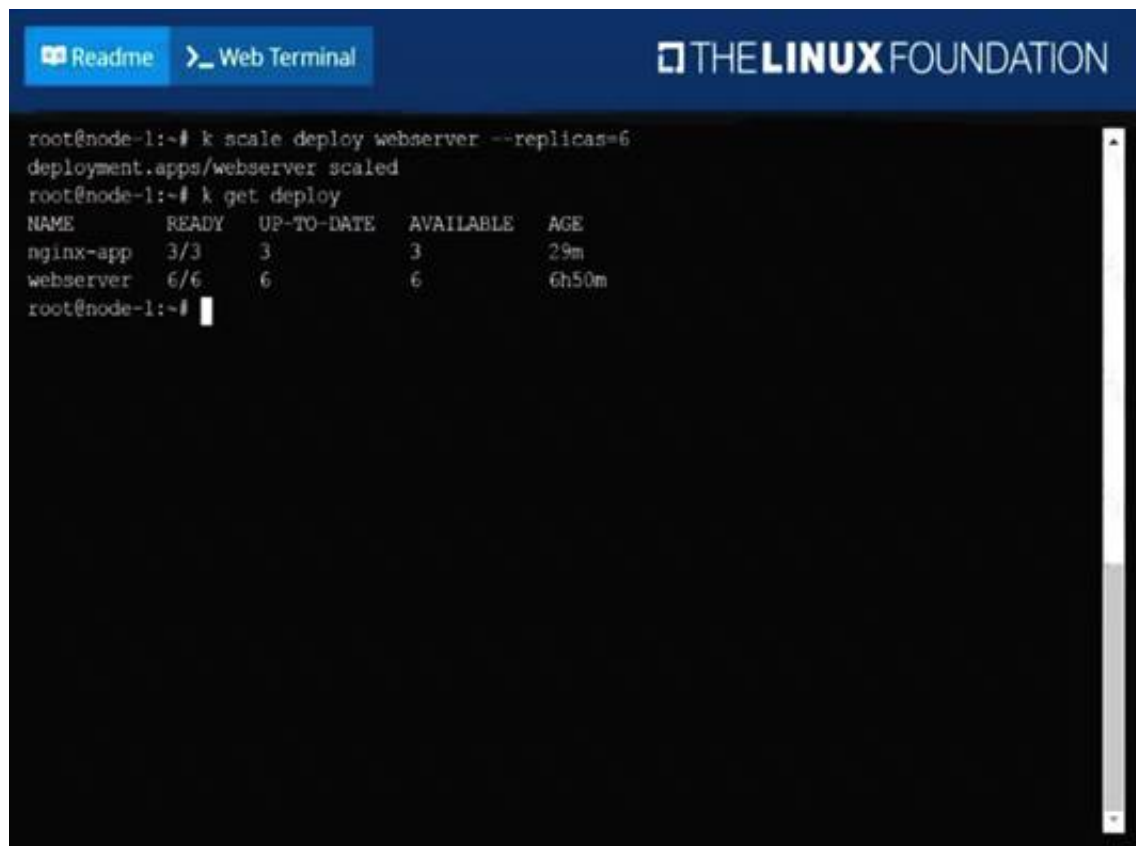
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\14 B.JPG



```

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 37

Print pod name and start time to ??/opt/pod-status?? file

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubectl get pods -o=jsonpath='{range items[*]}{.metadata.name}{"\t"}{.status.podIP}{"\n"}{end}'

NEW QUESTION 39

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

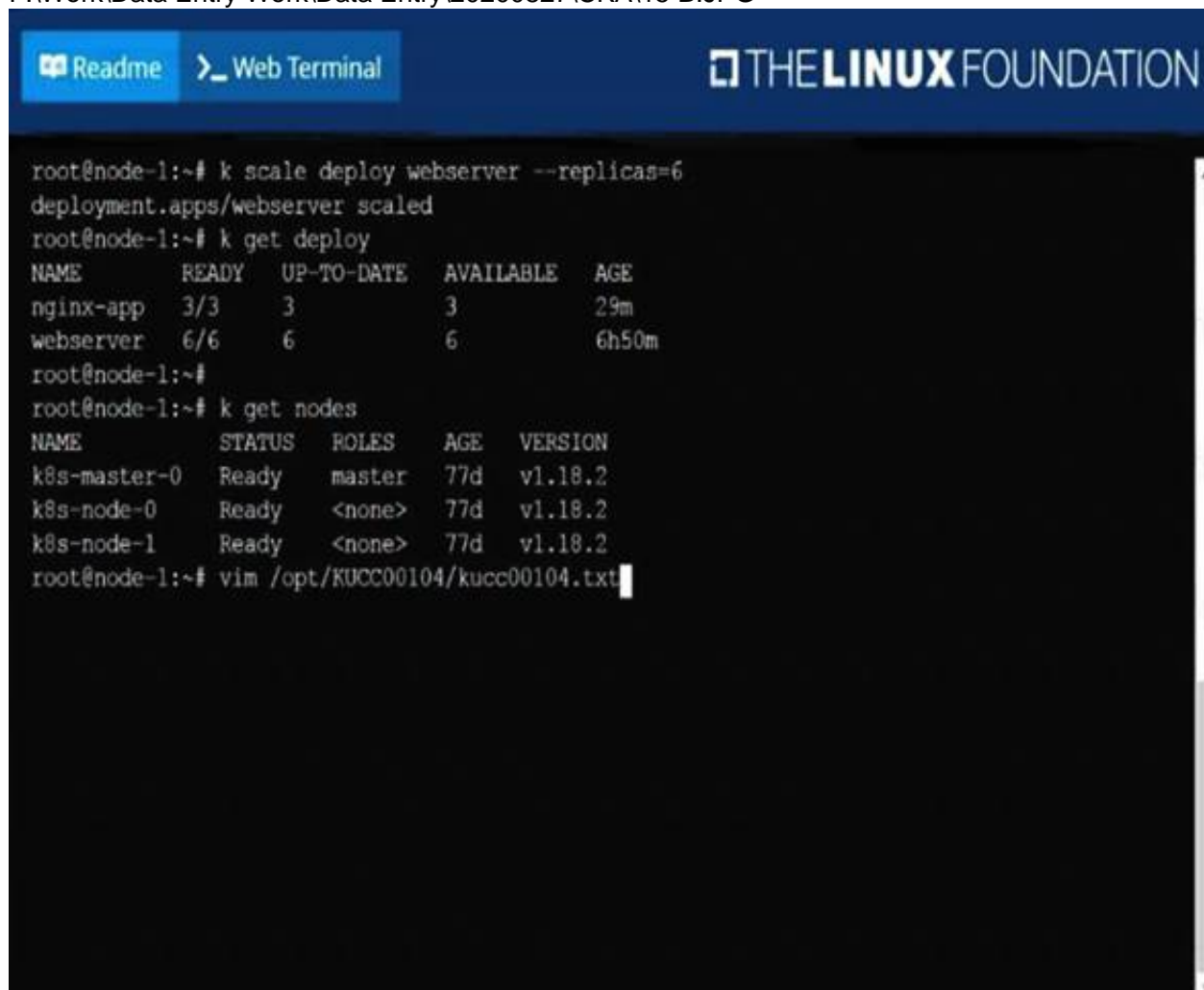
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\15 B.JPG

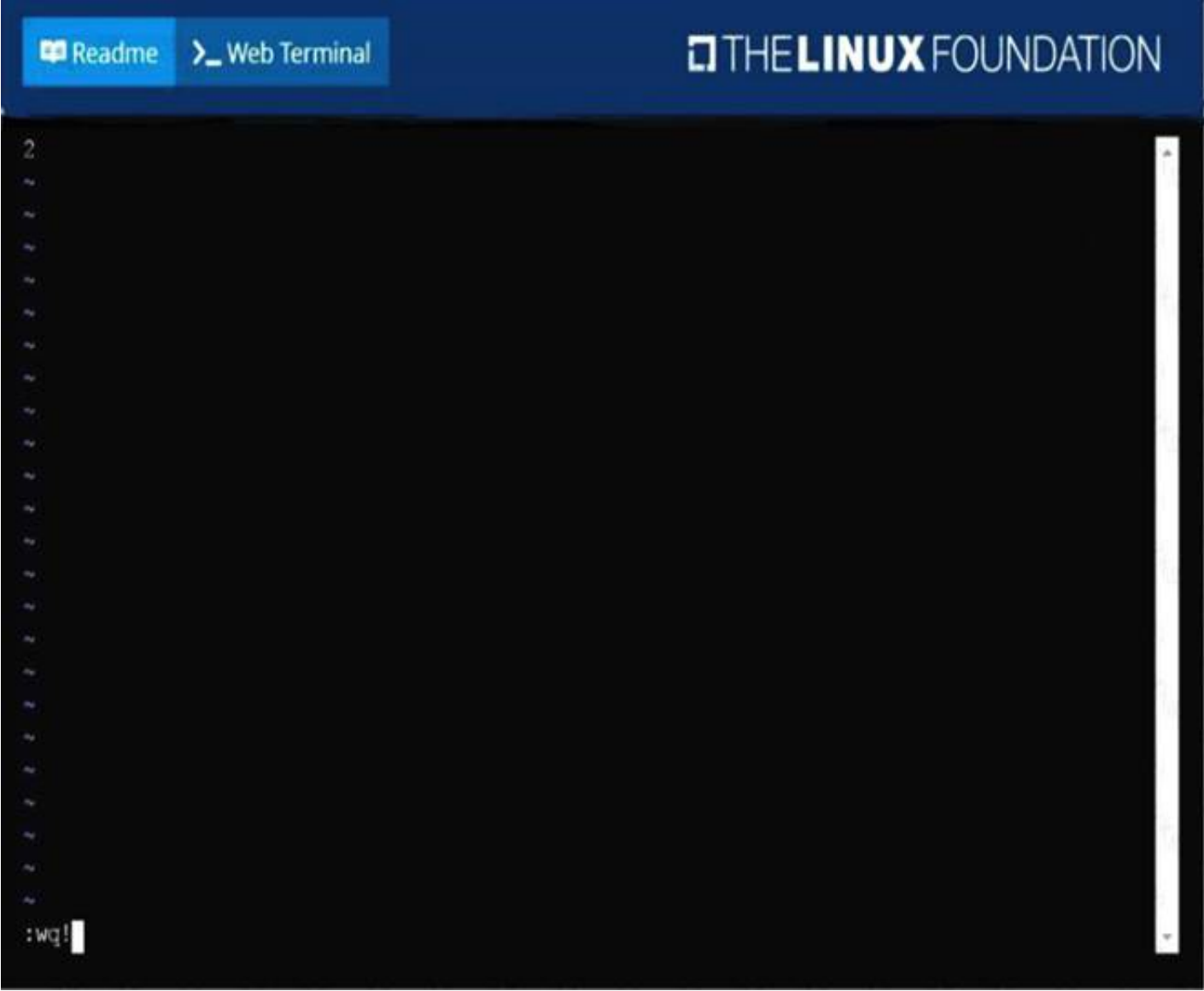


```

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:~#
root@node-1:~# k get nodes
NAME          STATUS   ROLES    AGE   VERSION
k8s-master-0  Ready   master   77d   v1.18.2
k8s-node-0    Ready   <none>   77d   v1.18.2
k8s-node-1    Ready   <none>   77d   v1.18.2
root@node-1:~# vim /opt/KUCC00104/kucc00104.txt

```

F:\Work\Data Entry Work\Data Entry\20200827\CKA\15 C.JPG



NEW QUESTION 42

.....

Thank You for Trying Our Product

* 100% Pass or Money Back

All our products come with a 90-day Money Back Guarantee.

* One year free update

You can enjoy free update one year. 24x7 online support.

* Trusted by Millions

We currently serve more than 30,000,000 customers.

* Shop Securely

All transactions are protected by VeriSign!

100% Pass Your CKA Exam with Our Prep Materials Via below:

<https://www.certleader.com/CKA-dumps.html>