

CKA Dumps

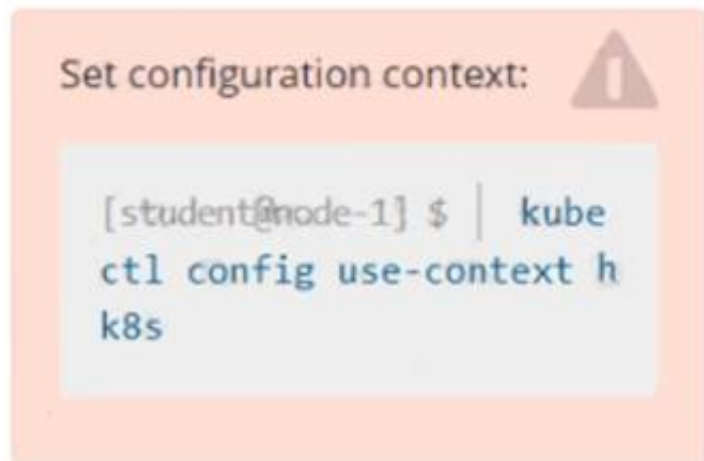
Certified Kubernetes Administrator (CKA) Program

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



NEW QUESTION 1

Score: 4%



Task

Create a persistent volume with name app-data , of capacity 1Gi and access mode ReadOnlyMany. The type of volume is hostPath and its location is /srv/app-data .

- A. Mastered
- B. Not Mastered

Answer: A**Explanation:**

Solution:

```
#vi pv.yaml apiVersion: v1
kind: PersistentVolume metadata:
name: app-config spec:
capacity: storage: 1Gi accessModes:
- ReadOnlyMany hostPath:
path: /srv/app-config
#
kubectl create -f pv.yaml
```

NEW QUESTION 2

Score: 5%



Task

Monitor the logs of pod bar and:

- Extract log lines corresponding to error file-not-found
- Write them to /opt/KUTR00101/bar

- A. Mastered
- B. Not Mastered

Answer: A**Explanation:**

Solution:

```
kubectl logs bar | grep 'unable-to-access-website' > /opt/KUTR00101/bar cat /opt/KUTR00101/bar
```

NEW QUESTION 3

Schedule a pod as follows:

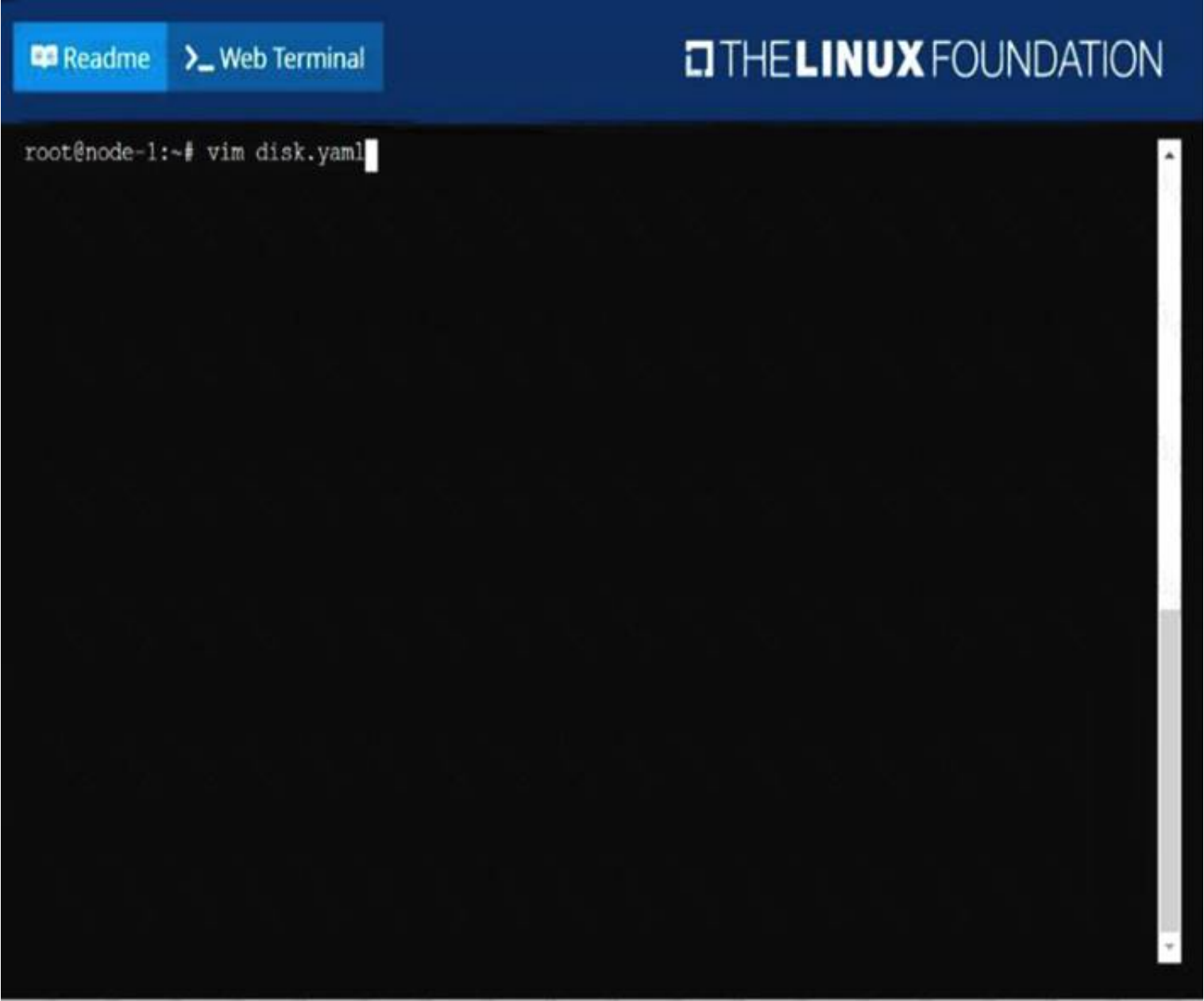
- > Name: nginx-kusc00101
- > Image: nginx
- > Node selector: disk=ssd

- A. Mastered
- B. Not Mastered

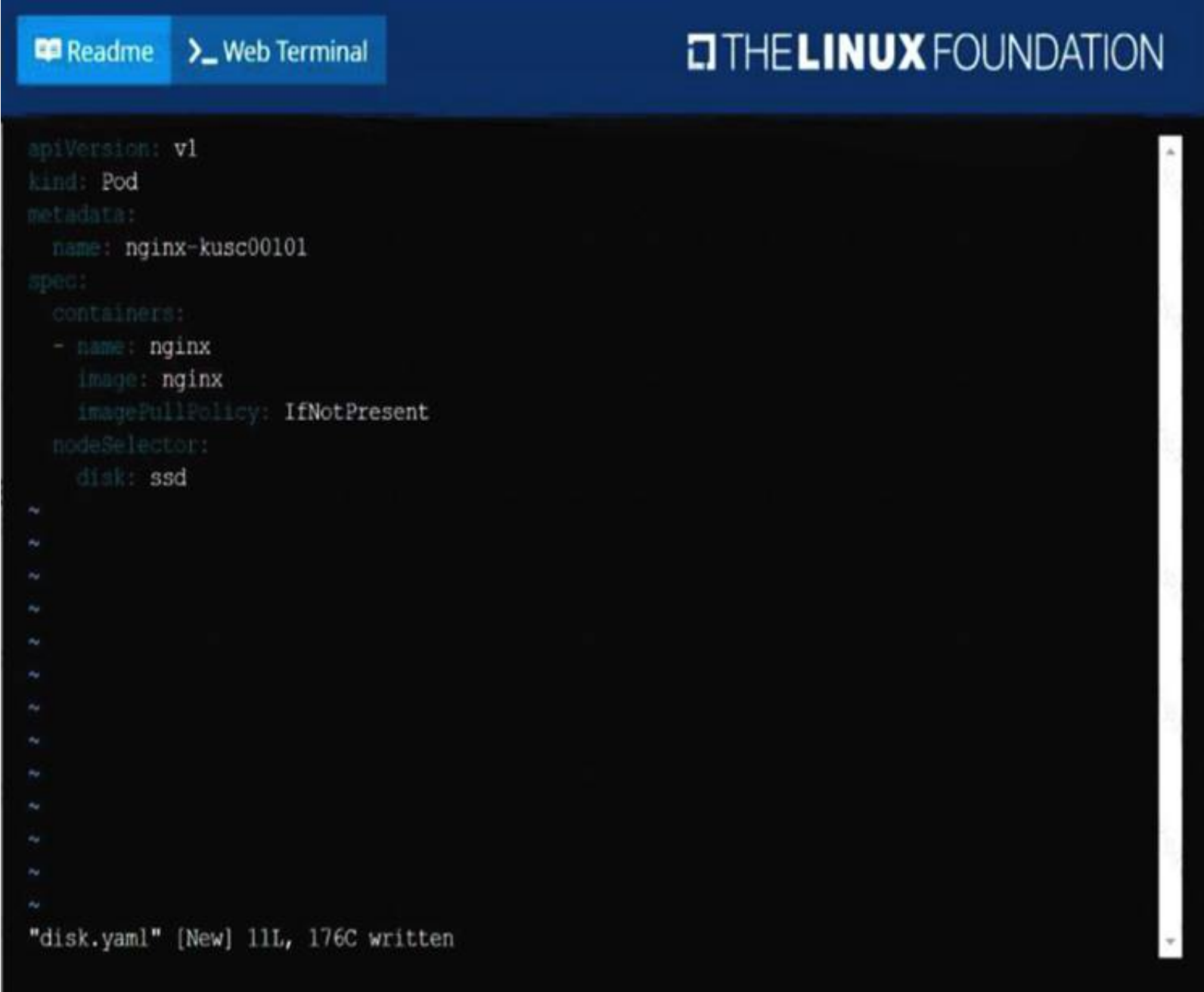
Answer: A

Explanation:

solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\6 B.JPG



F:\Work\Data Entry Work\Data Entry\20200827\CKA\6 C.JPG



F:\Work\Data Entry Work\Data Entry\20200827\CKA\6 D.JPG

ReadmeWeb Terminal

THE LINUX FOUNDATION

```
root@node-1:~# vim disk.yaml
root@node-1:~# k create -f disk.yaml
pod/nginx-kusc00101 created
root@node-1:~# k get po
NAME                                READY   STATUS    RESTARTS   AGE
cpu-utilizer-98b9se                 1/1     Running   0           5h59m
cpu-utilizer-ab2d3s                 1/1     Running   0           5h59m
cpu-utilizer-kipb9a                 1/1     Running   0           5h59m
ds-kusc00201-2r2k9                  1/1     Running   0           13m
ds-kusc00201-hzm9q                  1/1     Running   0           13m
foo                                  1/1     Running   0           6h1m
front-end                           1/1     Running   0           6h1m
hungry-bear                         1/1     Running   0           9m37s
kucc8                                3/3     Running   0           7m37s
nginx-kusc00101                     1/1     Running   0           9s
webserver-84c55967f4-qzjcv          1/1     Running   0           6h16m
webserver-84c55967f4-t479l          1/1     Running   0           6h16m
root@node-1:~#
```

NEW QUESTION 4

Score: 5%

Set configuration context:

```
[student@node-1] $ | kube
ctl config use-context k
8s
```

Task
From the pod label name=cpu-utilizer, find pods running high CPU workloads and write the name of the pod consuming most CPU to the file /opt/KUTR00401/KUTR00401.txt (which already exists).

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:
kubectl top -l name=cpu-user -A
echo 'pod name' >> /opt/KUT00401/KUT00401.txt

NEW QUESTION 5

- Monitor the logs of pod foo and:
- > Extract log lines corresponding to error unable-to-access-website
 - > Write them to/opt/KULM00201/foo



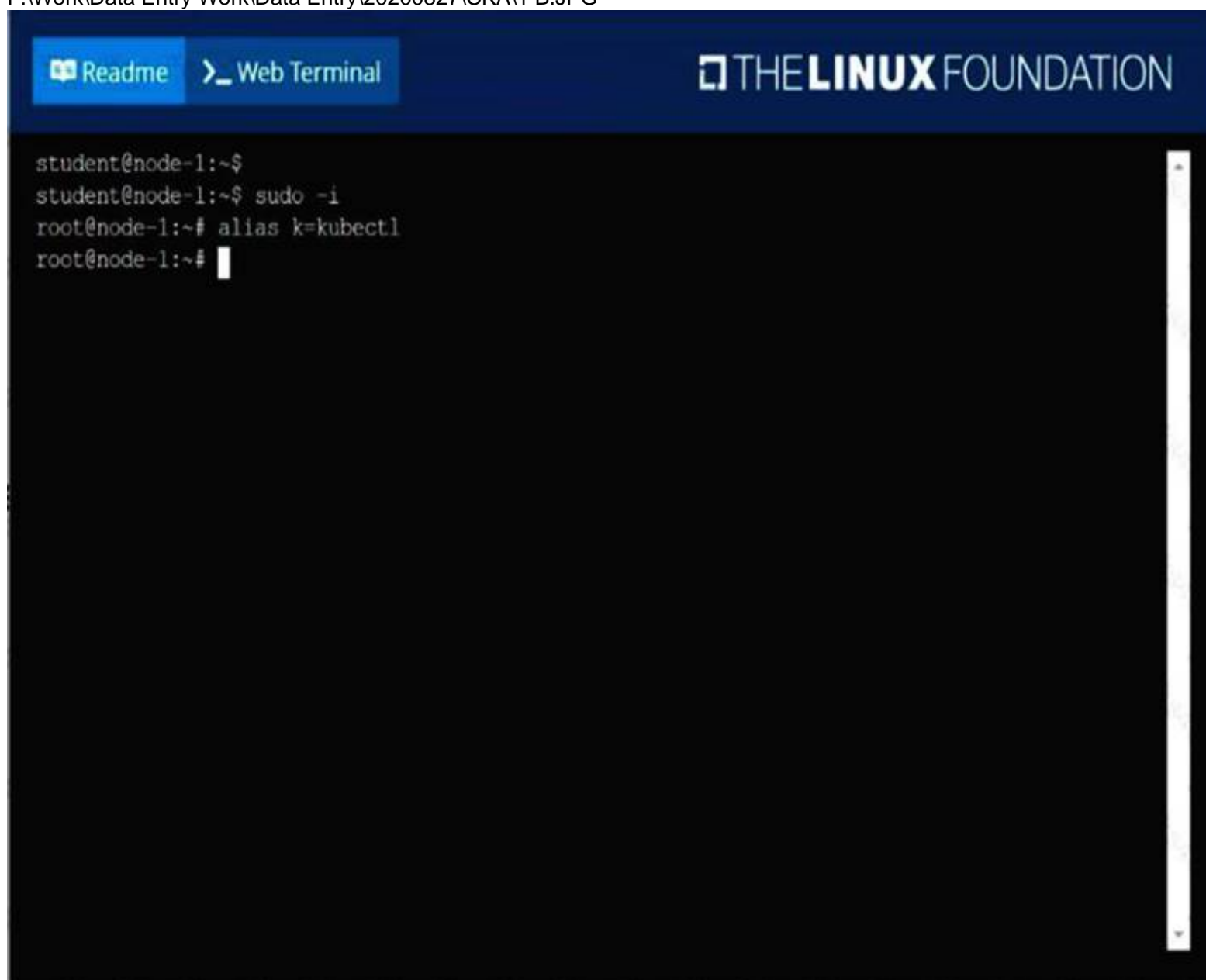
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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

Readme
Web Terminal

```

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 6

Score: 4%



Task

Scale the deployment presentation to 6 pods.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

kubectl get deployment

kubectl scale deployment.apps/presentation --replicas=6

NEW QUESTION 7

Get IP address of the pod – “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 8

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 9

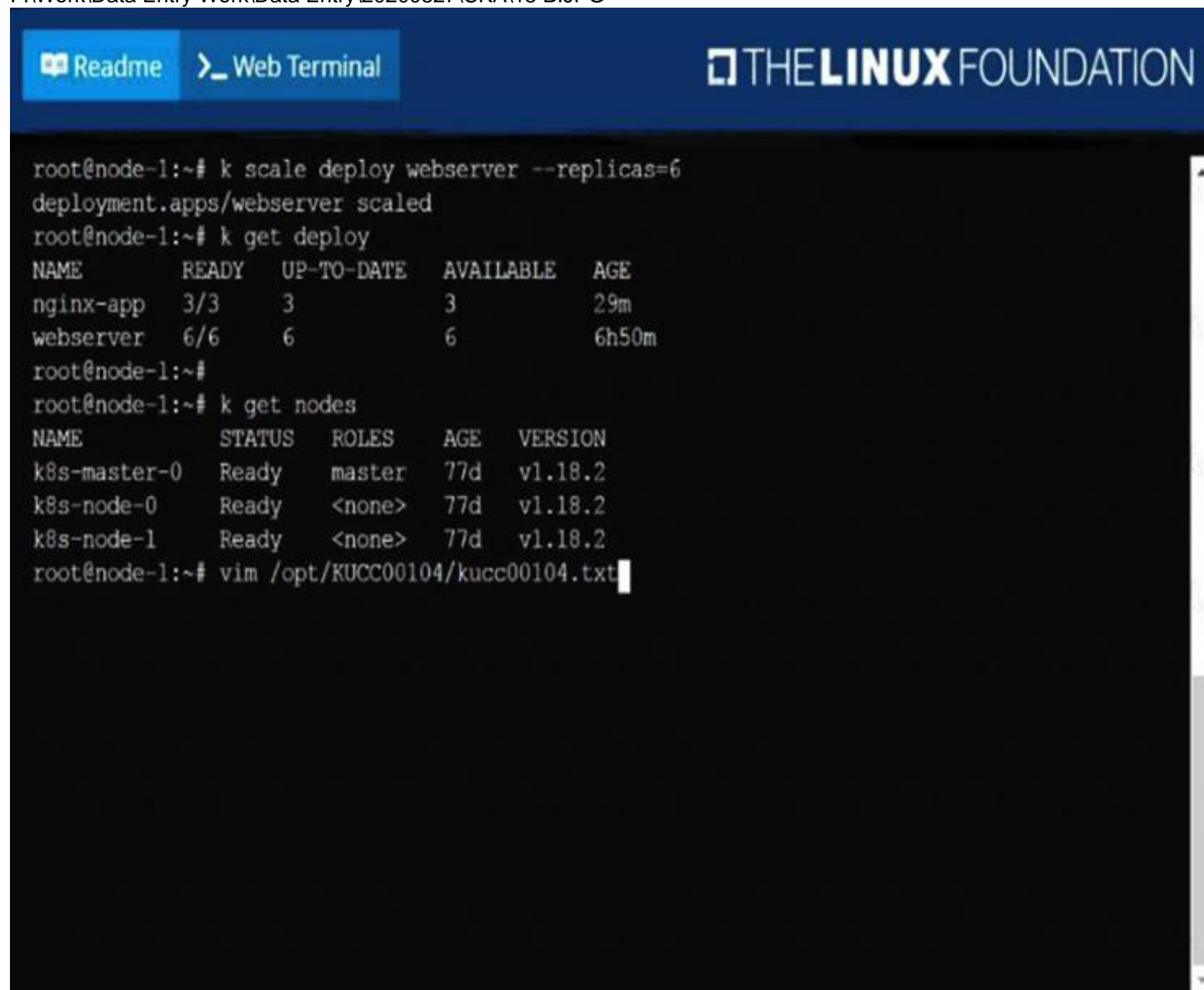
Check to see how many worker nodes are ready (not including nodes tainted NoSchedule) and write the number to /opt/KUCC00104/kucc00104.txt.

- A. Mastered
- B. Not Mastered

Answer: A

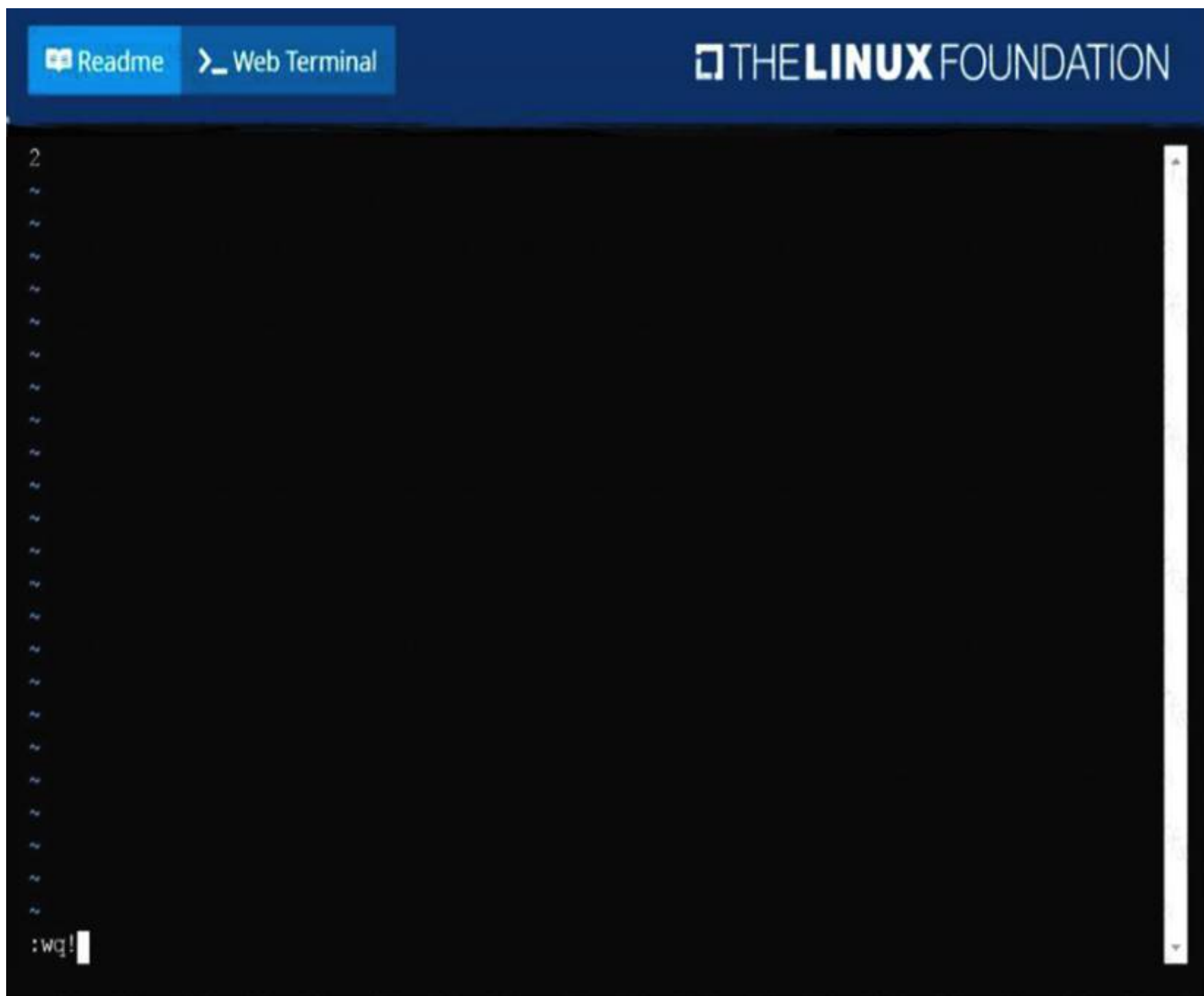
Explanation:

solution
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```
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
```

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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.

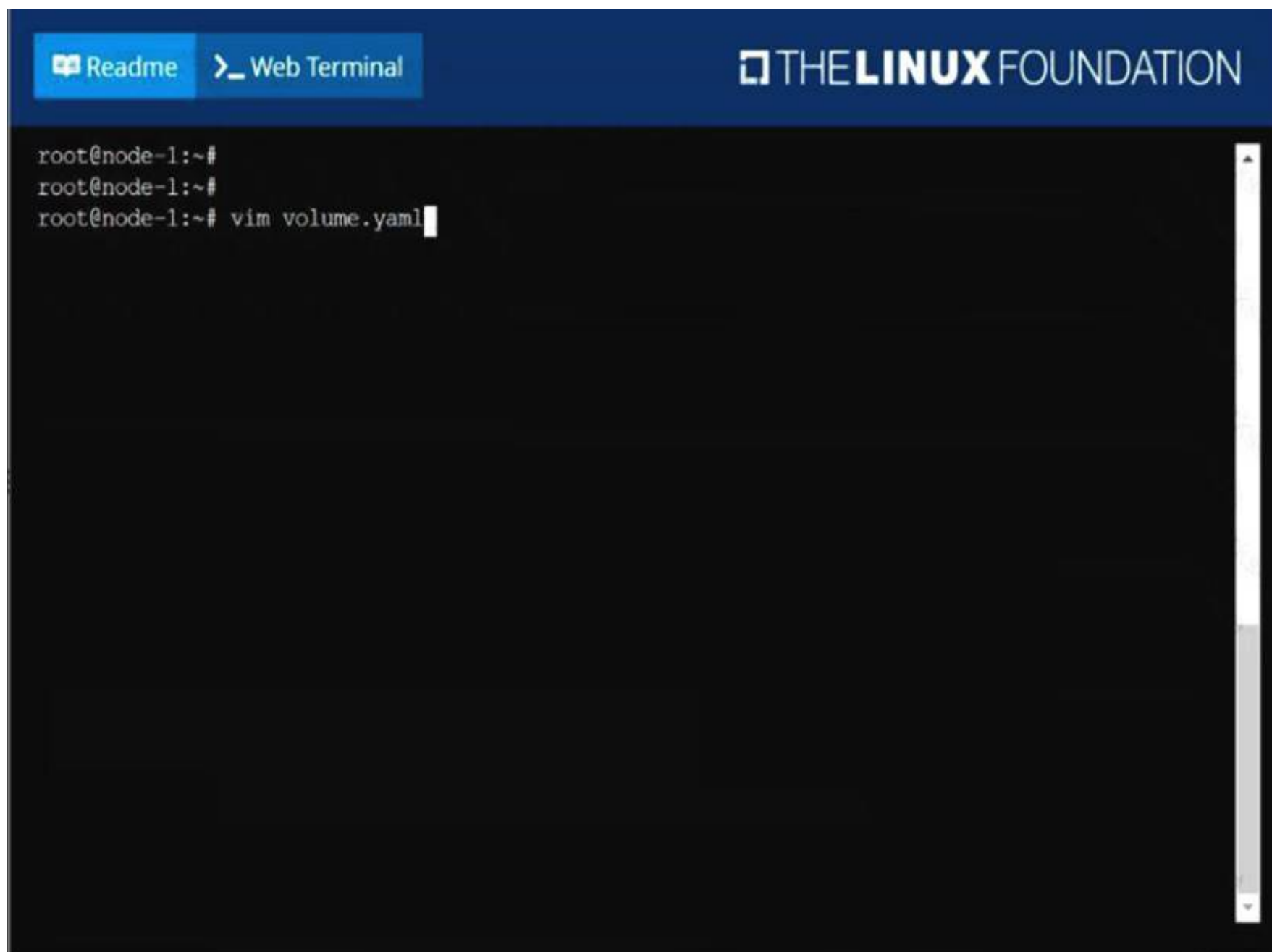
- A. Mastered
- B. Not Mastered

Answer: A

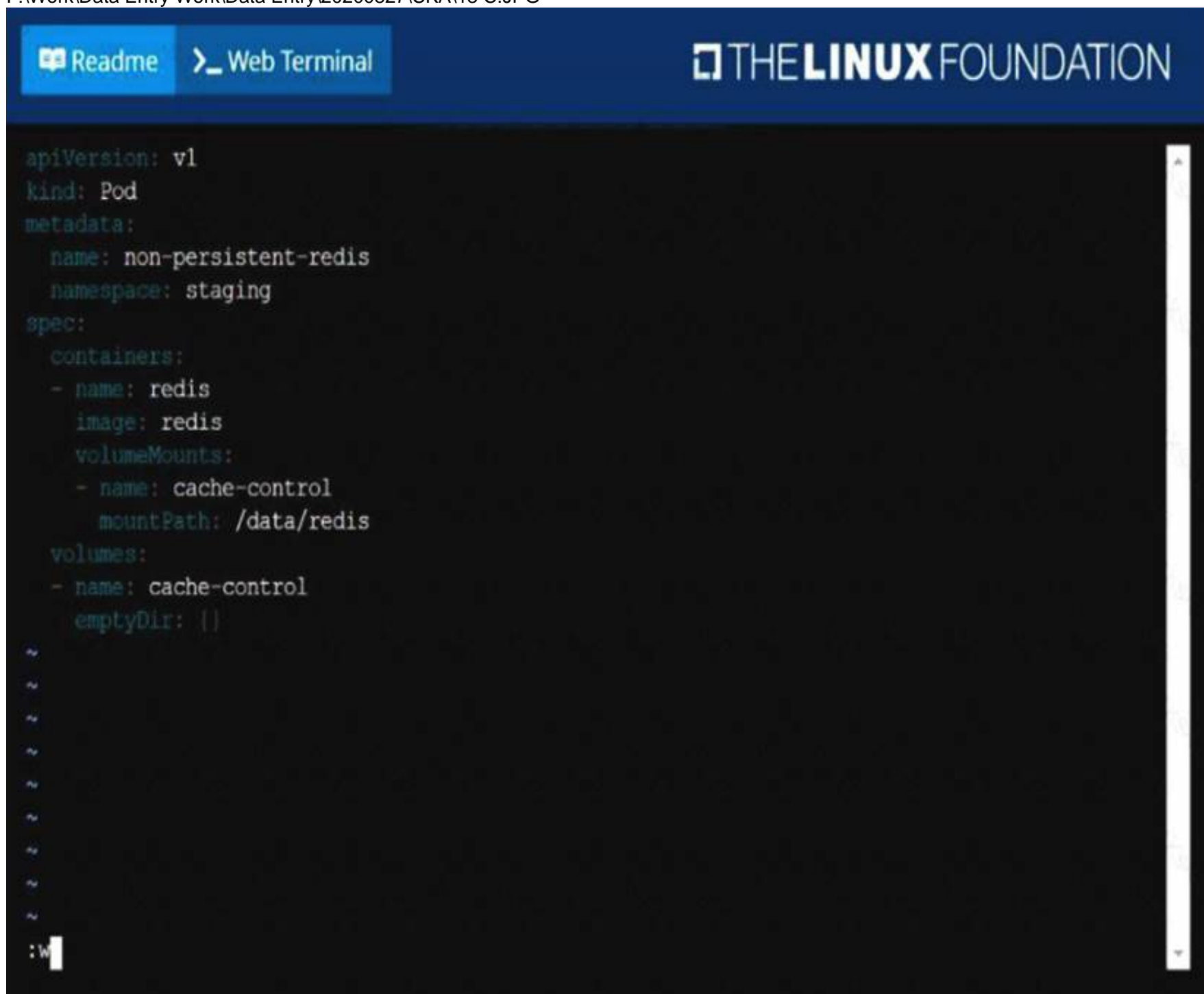
Explanation:

solution

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Readme
Web Terminal

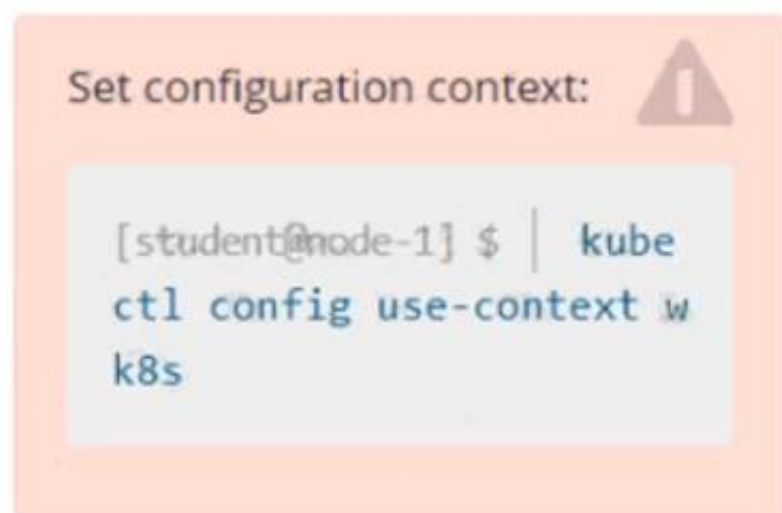
```

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:~#

```

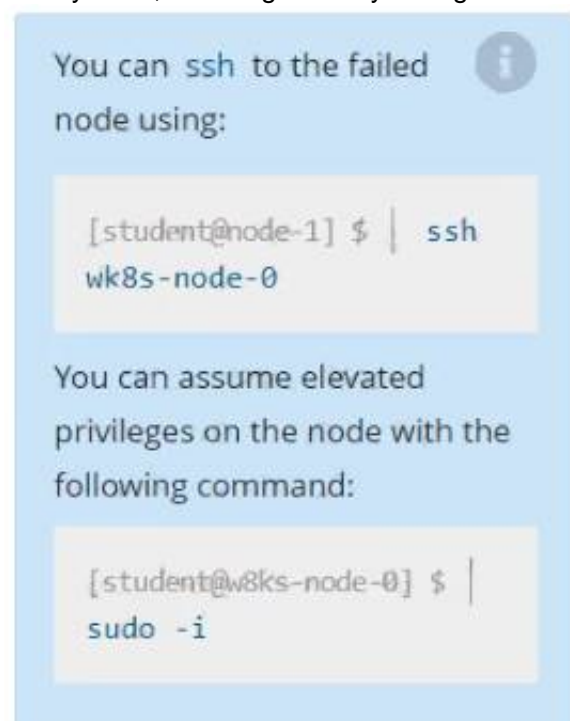
NEW QUESTION 10

Score: 13%



Task

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.



- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Solution:

```
sudo -i
```

```
systemctl status kubelet systemctl start kubelet systemctl enable kubelet
```

NEW QUESTION 11

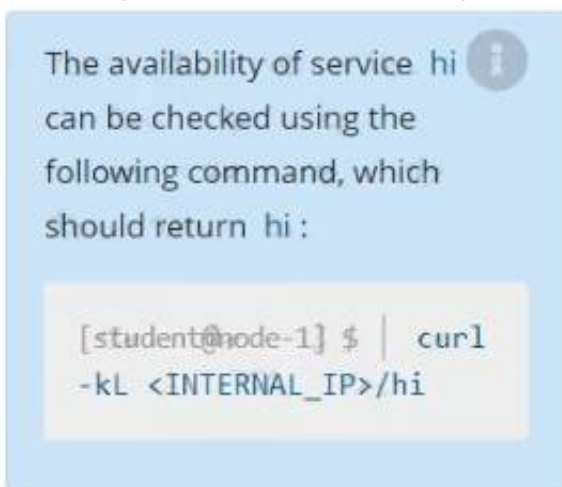
Score: 7%



Task

Create a new nginx Ingress resource as follows:

- Name: ping
- Namespace: ing-internal
- Exposing service hi on path /hi using service port 5678



- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Solution:

```
vi ingress.yaml
```

```
#
```

```
apiVersion: networking.k8s.io/v1 kind: Ingress
```

```
metadata: name: ping
```

```
namespace: ing-internal spec:
```

```
rules:
```

```
- http:
```

```
paths:
```

```
- path: /hi pathType: Prefix backend: service:
```

```
name: hi port:
```

```
number: 5678
```

```
#
```

```
kubectl create -f ingress.yaml
```

NEW QUESTION 14

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 15

Score: 4%



Task

Create a pod named kucc8 with a single app container for each of the following images running inside (there may be between 1 and 4 images specified): nginx + redis + memcached .

- A. Mastered
- B. Not Mastered

Answer: A**Explanation:**

Solution:

```
kubectl run kucc8 --image=nginx --dry-run -o yaml > kucc8.yaml
```

```
# vi kucc8.yaml apiVersion: v1 kind: Pod metadata:
```

```
creationTimestamp: null name: kucc8
```

```
spec: containers:
```

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

```
- image: redis name: redis
```

```
- image: memcached
```

```
name: memcached
```

```
- image: consul name: consul
```

```
#
```

```
kubectl create -f kucc8.yaml
```

```
#12.07
```

NEW QUESTION 19

Ensure a single instance of pod nginx 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.

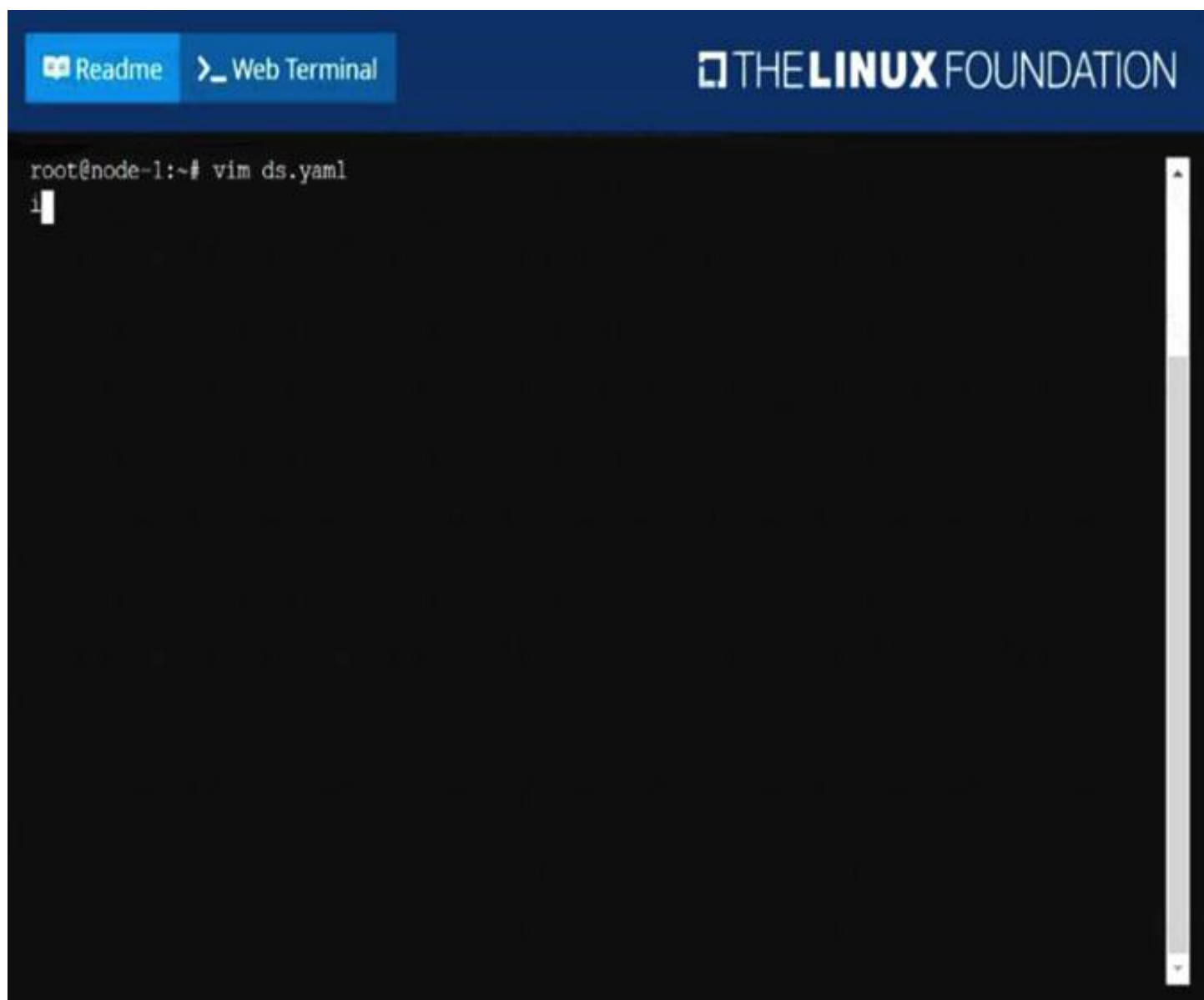
Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.

- A. Mastered
- B. Not Mastered

Answer: A**Explanation:**

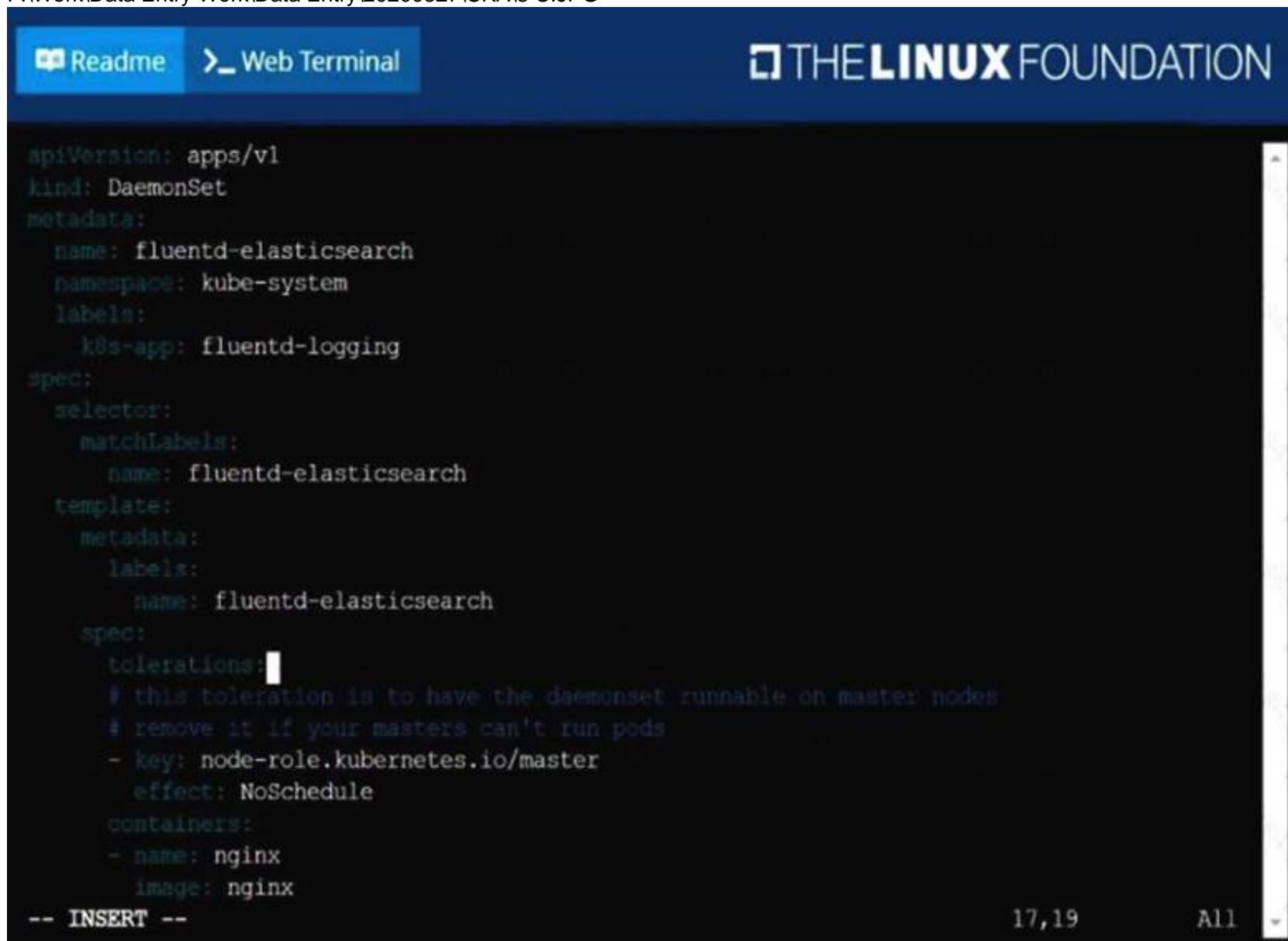
solution

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



```
root@node-1:~# vim ds.yaml
i
```

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```
apiVersion: apps/v1
kind: DaemonSet
metadata:
  name: fluentd-elasticsearch
  namespace: kube-system
  labels:
    k8s-app: fluentd-logging
spec:
  selector:
    matchLabels:
      name: fluentd-elasticsearch
  template:
    metadata:
      labels:
        name: fluentd-elasticsearch
    spec:
      tolerations:
        # this toleration is to have the daemonset runnable on master nodes
        # remove it if your masters can't run pods
        - key: node-role.kubernetes.io/master
          effect: NoSchedule
      containers:
        - name: nginx
          image: nginx
-- INSERT --
```

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ReadmeWeb Terminal

THE LINUX FOUNDATION

```
apiVersion: apps/v1
kind: DaemonSet
metadata:
  name: ds-kusc00201
spec:
  selector:
    matchLabels:
      name: fluentd-elasticsearch
  template:
    metadata:
      labels:
        name: fluentd-elasticsearch
    spec:
      containers:
      - name: nginx
        image: nginx
~
~
~
~
~
~
~
~
~
~
:WG
```

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

ReadmeWeb Terminal

THE LINUX FOUNDATION

```
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:~#
```

NEW QUESTION 23

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubect1 get pods -o=jsonpath='{range items[*]}{.metadata.name}"t"}{.status.podIP}"n"}{end}'

NEW QUESTION 26

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 28

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 I 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 -i

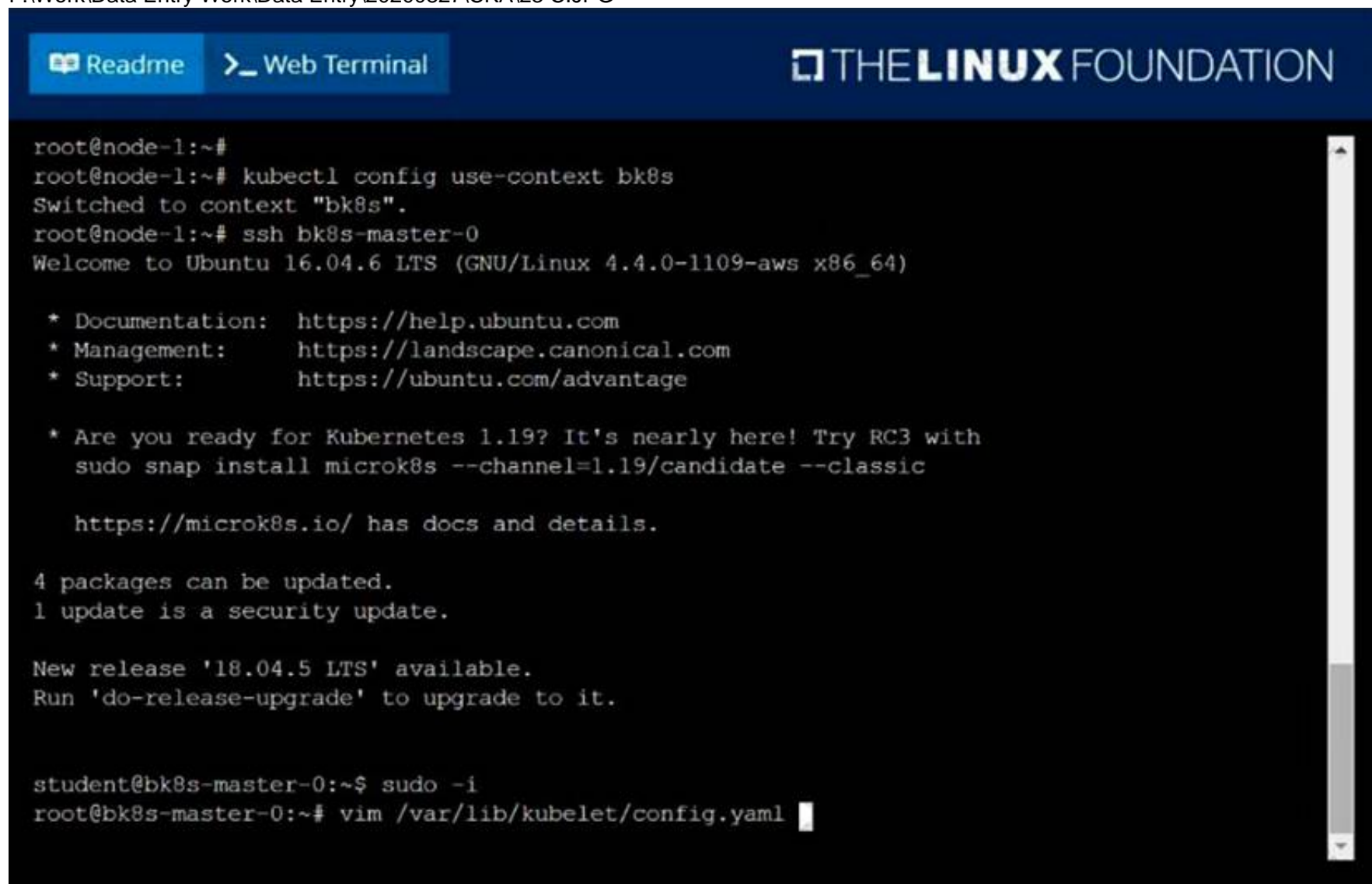
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\23 C.JPG

The image is a screenshot of a terminal window titled 'THE LINUX FOUNDATION'. At the top, there are two buttons: 'Readme' and 'Web Terminal'. The terminal output shows a user at 'root@node-1:~#'. They run 'kubectl config use-context bk8s', which outputs 'Switched to context "bk8s".'. Then they run 'ssh bk8s-master-0', which outputs 'Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-1109-aws x86_64)'. Below this is a list of links for documentation, management, and support. Then there's a message about Kubernetes 1.19 and a command to install microk8s. Next is a message about package updates. Then a message about a new Ubuntu release. Finally, the prompt changes to 'student@bk8s-master-0:~\$' and they run 'sudo -i', changing to 'root@bk8s-master-0:~#'. The last command shown is 'vim /var/lib/kubelet/config.yaml'.

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Readme
Web Terminal

```

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
volumeStatsAggPeriod: 0s
:wg

```

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Readme
Web Terminal

```

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
root@bk8s-master-0:~# systemctl restart kubelet
root@bk8s-master-0:~# systemctl enable kubelet
root@bk8s-master-0:~# kubectl get nodes

NAME             STATUS    ROLES    AGE   VERSION
bk8s-master-0    Ready    master   77d   v1.18.2
bk8s-node-0      Ready    <none>   77d   v1.18.2
root@bk8s-master-0:~#
root@bk8s-master-0:~# exit
logout
student@bk8s-master-0:~$ exit
logout
Connection to 10.250.4.77 closed.
root@node-1:~#

```

NEW QUESTION 30

List “nginx-dev” and “nginx-prod” pod and delete those pods

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubect1 get pods -o wide

kubectl delete po "nginx-dev" kubectl delete po "nginx-prod"

NEW QUESTION 34

Create a snapshot of the etcd instance running at <https://127.0.0.1:2379>, saving the snapshot to the file path /srv/data/etcd-snapshot.db. The following TLS certificates/key are supplied for connecting to the server with etcdctl:

- CA certificate: /opt/KUCM00302/ca.crt
- Client certificate: /opt/KUCM00302/etcd-client.crt
- Client key: /opt/KUCM00302/etcd-client.key

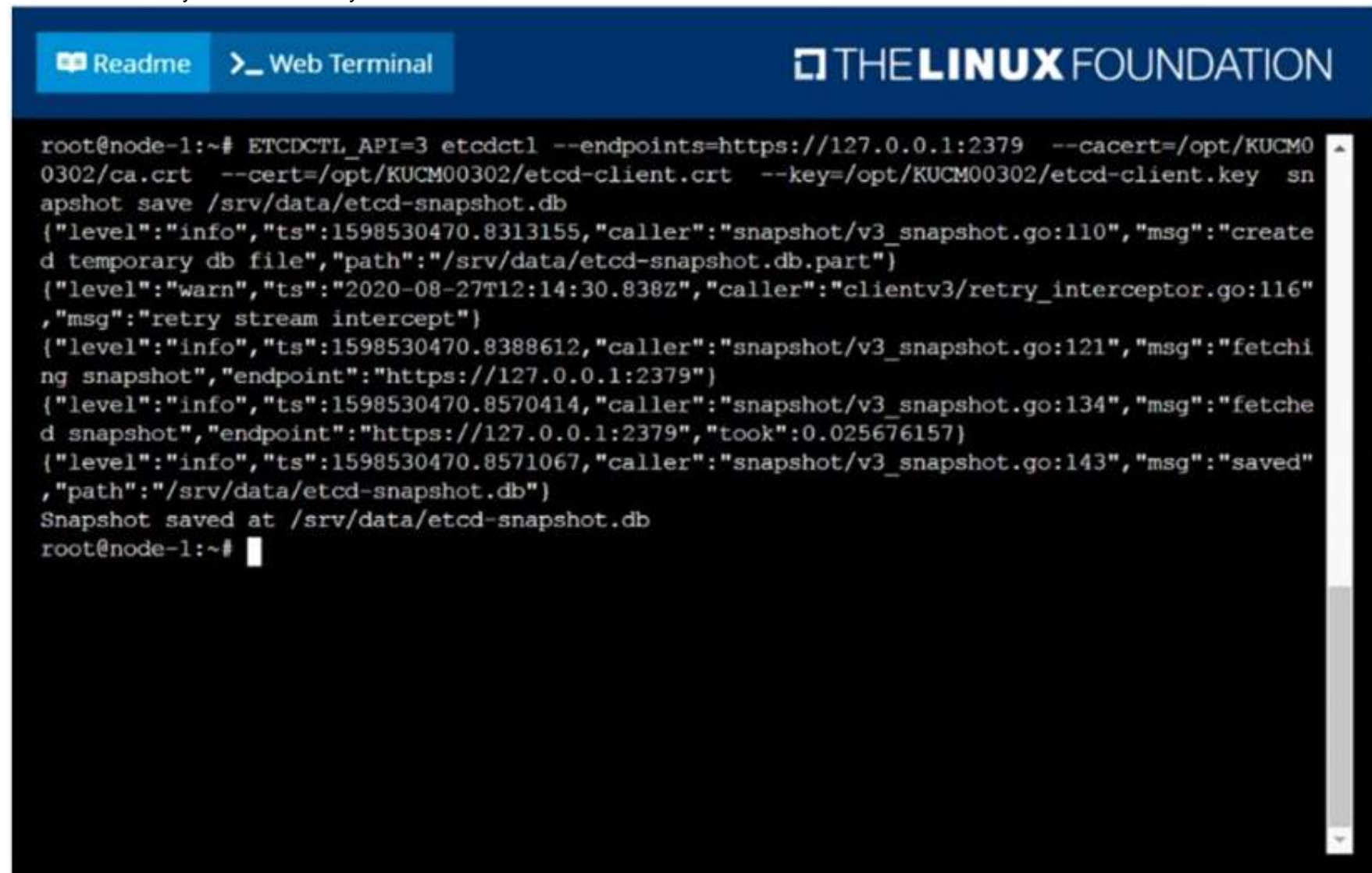
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\18 C.JPG



The screenshot shows a terminal window with a dark background. At the top, there is a blue header bar with the text "THE LINUX FOUNDATION" on the right and two buttons: "Readme" and "Web Terminal". The terminal content shows a user at the root of node-1 executing the command: `ETCDCTL_API=3 etcdctl --endpoints=https://127.0.0.1:2379 --cacert=/opt/KUCM00302/ca.crt --cert=/opt/KUCM00302/etcd-client.crt --key=/opt/KUCM00302/etcd-client.key snapshot save /srv/data/etcd-snapshot.db`. The output shows several log messages indicating the successful creation and saving of the snapshot. The terminal ends with the prompt `root@node-1:~#`.

NEW QUESTION 37

Score: 4%



Context

You have been asked to create a new ClusterRole for a deployment pipeline and bind it to a specific ServiceAccount scoped to a specific namespace.

Task

Create a new ClusterRole named deployment-clusterrole, which only allows to create the following resource types:

- Deployment
- StatefulSet
- DaemonSet

Create a new ServiceAccount named cicd-token in the existing namespace app-team1.

Bind the new ClusterRole deployment-clusterrole to the new ServiceAccount cicd-token, limited to the namespace app-team1.

- A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

Task should be complete on node k8s -1 master, 2 worker for this connect use command

```
[student@node-1] > ssh k8s
```

```
kubectl create clusterrole deployment-clusterrole --verb=create
```

```
--resource=deployments,statefulsets,daemonsets
```

```
kubectl create serviceaccount cicd-token --namespace=app-team1
```

```
kubectl create rolebinding deployment-clusterrole --clusterrole=deployment-clusterrole
```

```
--serviceaccount=default:cicd-token --namespace=app-team1
```

NEW QUESTION 42

.....

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