



Linux-Foundation

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

NEW QUESTION 1

CORRECT TEXT

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 2

CORRECT TEXT

Score:7%



Task

Create a new PersistentVolumeClaim

- Name: pv-volume
- Class: csi-hostpath-sc
- Capacity: 10Mi

Create a new Pod which mounts the PersistentVolumeClaim as a volume:

- Name: web-server
- Image: nginx
- Mount path: /usr/share/nginx/html

Configure the new Pod to have ReadWriteOnce access on the volume.

Finally, using kubectl edit or kubectl patch expand the PersistentVolumeClaim to a capacity of 70Mi and record that change.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
vi pvc.yaml
storageclass pvc
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
name: pv-volume
spec:
accessModes:
- ReadWriteOnce
volumeMode: Filesystem
resources:
requests:
storage: 10Mi
storageClassName: csi-hostpath-sc
# vi pod-pvc.yaml
apiVersion: v1
kind: Pod
metadata:
name: web-server
spec:
containers:
- name: web-server
image: nginx
volumeMounts:
- mountPath: "/usr/share/nginx/html"
name: my-volume
volumes:
```

```
- name: my-volume
persistentVolumeClaim:
  claimName: pv-volume
# create
kubectl create -f pod-pvc.yaml
#edit
kubectl edit pvc pv-volume --record
```

NEW QUESTION 3

CORRECT TEXT

Create a Kubernetes secret as follows:

? Name: super-secret

? password: bob

Create a pod named pod-secrets-via-file, using the redis Image, which mounts a secret named super-secret at /secrets.

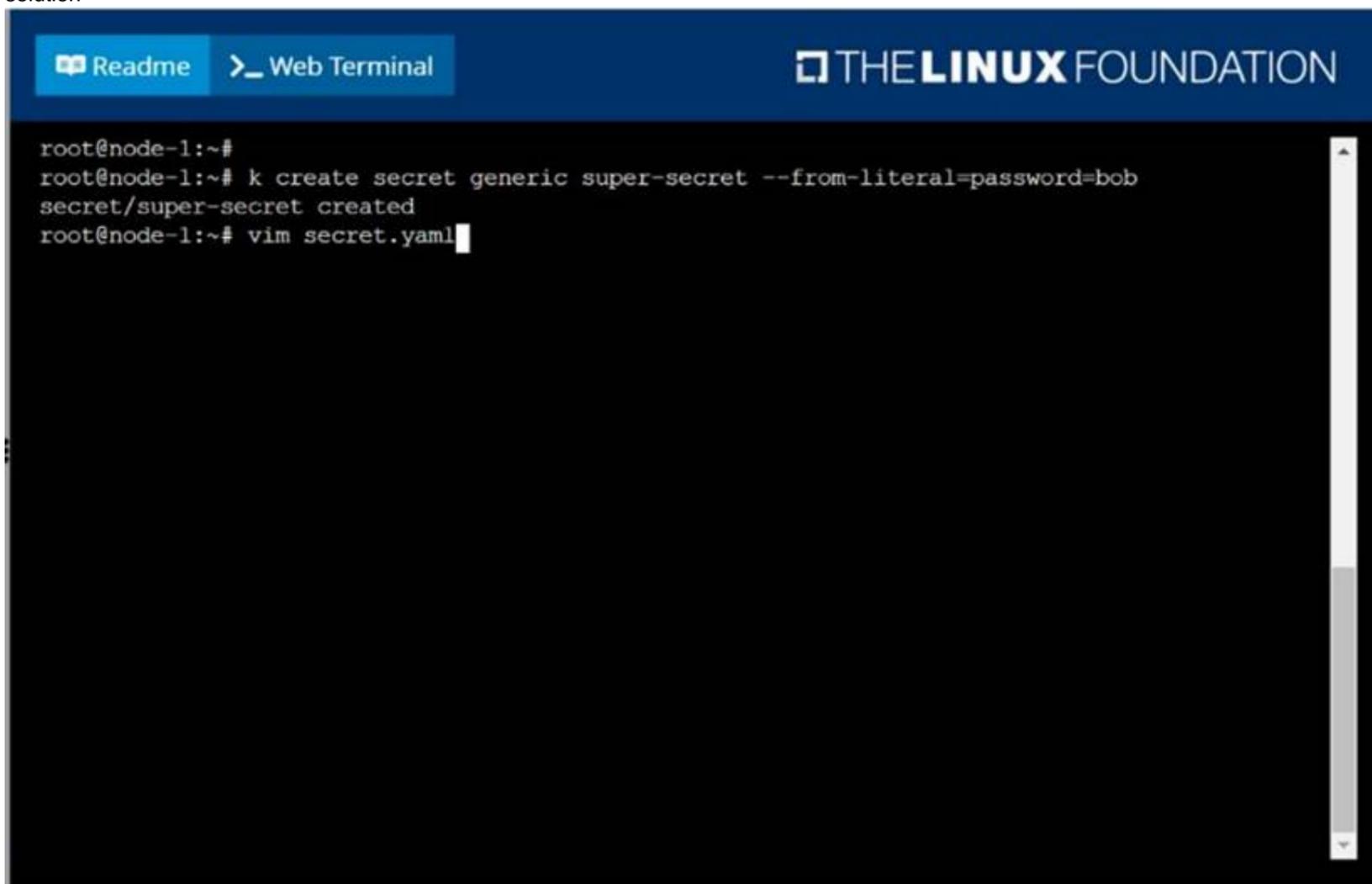
Create a second pod named pod-secrets-via-env, using the redis Image, which exports

password as CONFIDENTIAL

- A. Mastered
- B. Not Mastered

Answer: A**Explanation:**

solution



```
root@node-1:~#
root@node-1:~# k create secret generic super-secret --from-literal=password=bob
secret/super-secret created
root@node-1:~# vim secret.yaml
```

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```

apiVersion: v1
kind: Pod
metadata:
  name: pod-secrets-via-file
spec:
  containers:
  - name: redis
    image: redis
    volumeMounts:
    - name: foo
      mountPath: "/secrets"
  volumes:
  - name: foo
    secret:
      secretName: super-secret
~
~
~
~
~
~
~
~
~
:w

```

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```

root@node-1:~# k create -f secret.yaml
pod/pod-secrets-via-file created
root@node-1:~# vim secret1.yaml
root@node-1:~# k create -f secret1.yaml
pod/pod-secrets-via-env created
root@node-1:~# k get po
NAME                                READY   STATUS    RESTARTS   AGE
cpu-utilizer-98b9se                 1/1     Running   0           6h25m
cpu-utilizer-ab2d3s                 1/1     Running   0           6h25m
cpu-utilizer-kipb9a                 1/1     Running   0           6h25m
ds-kusc00201-2r2k9                  1/1     Running   0           40m
ds-kusc00201-hzm9q                  1/1     Running   0           40m
foo                                  1/1     Running   0           6h28m
front-end                            1/1     Running   0           6h27m
hungry-bear                         1/1     Running   0           36m
kucc8                                3/3     Running   0           34m
nginx-app-848cfcf495-9prjh          1/1     Running   0           19m
nginx-app-848cfcf495-gl2kh          1/1     Running   0           19m
nginx-app-848cfcf495-pg2c8          1/1     Running   0           19m
nginx-kusc00101                     1/1     Running   0           26m
pod-secrets-via-env                 1/1     Running   0           4s
pod-secrets-via-file                1/1     Running   0           106s
webserver-84c55967f4-qzjcv          1/1     Running   0           6h43m
webserver-84c55967f4-t4791         1/1     Running   0           6h43m
root@node-1:~#

```

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NEW QUESTION 4

CORRECT TEXT

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 5

CORRECT TEXT

Score: 7%

Set configuration context: 

```
[student@node-1] $ | kube  
ctl config use-context m  
k8s
```

Task

Given an existing Kubernetes cluster running version 1.20.0, upgrade all of the Kubernetes control plane and node components on the master node only to version 1.20.1.

Be sure to drain the master node before upgrading it and uncordon it after the upgrade.

You can ssh to the master node using: 

```
[student@node-1] $ | ssh  
mk8s-master-0
```

You can assume elevated privileges on the master node with the following command:

```
[student@mk8s-master-0] |  
$  
sudo -i
```

You are also expected to upgrade kubelet and kubectl on the master node.

Do not upgrade the worker nodes, etcd, the container manager, the CNI plugin, the DNS service or any other addons. 

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

SOLUTION:

```
[student@node-1] > ssh ek8s
kubectl cordon k8s-master
kubectl drain k8s-master --delete-local-data --ignore-daemonsets --force
apt-get install kubeadm=1.20.1-00 kubelet=1.20.1-00 kubectl=1.20.1-00 --
disableexcludes=kubernetes
kubeadm upgrade apply 1.20.1 --etcd-upgrade=false
systemctl daemon-reload
systemctl restart kubelet kubectl
uncordon k8s-master
```

NEW QUESTION 6

CORRECT TEXT

Create a deployment as follows:

? Name: nginx-random

? Exposed via a service nginx-random

? Ensure that the service & pod are accessible via their respective DNS records

? The container(s) within any pod(s) running as a part of this deployment should use the nginx Image

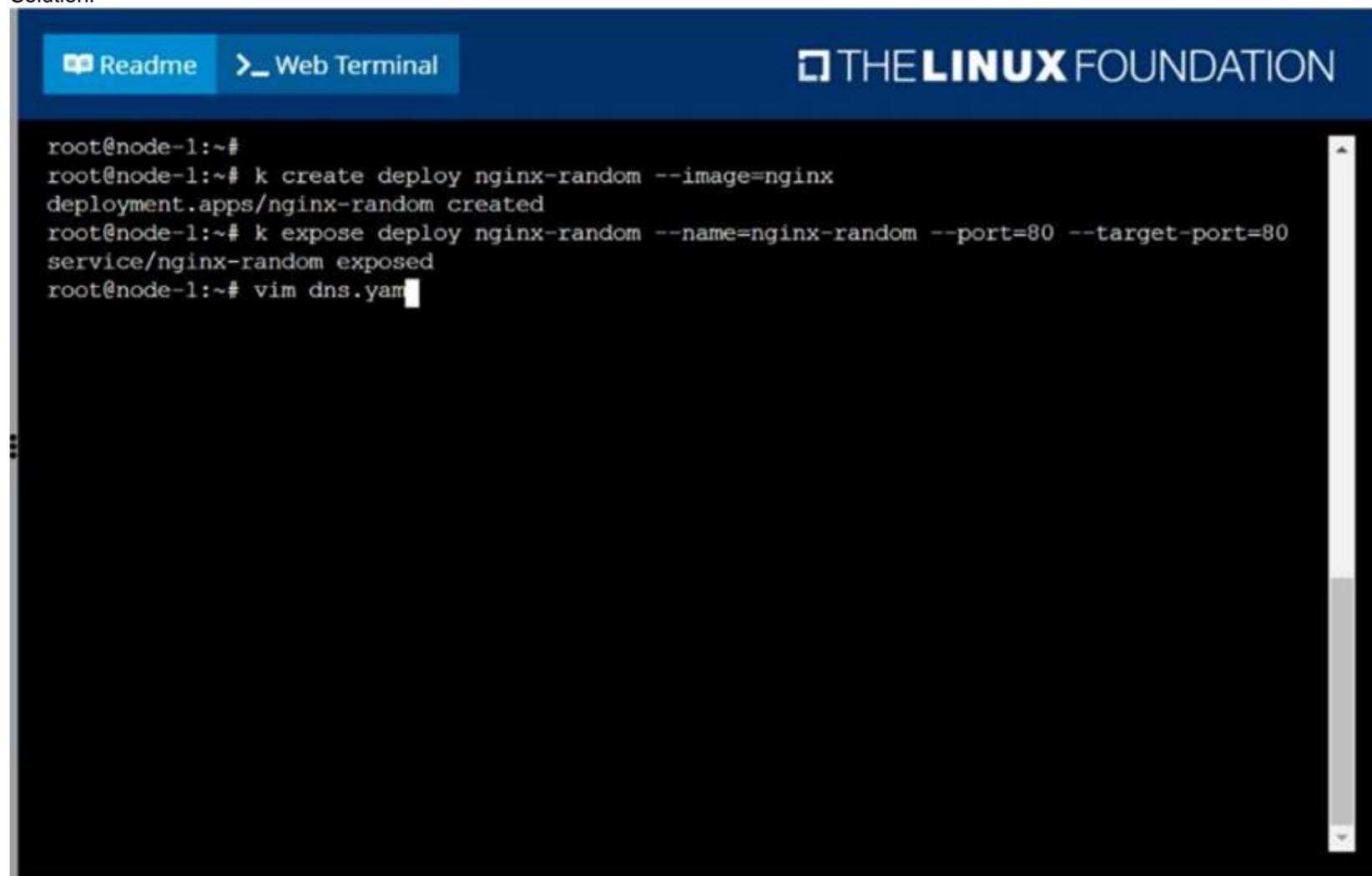
Next, use the utility nslookup to look up the DNS records of the service & pod and write the output to /opt/KUNW00601/service.dns and /opt/KUNW00601/pod.dns respectively.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:



```

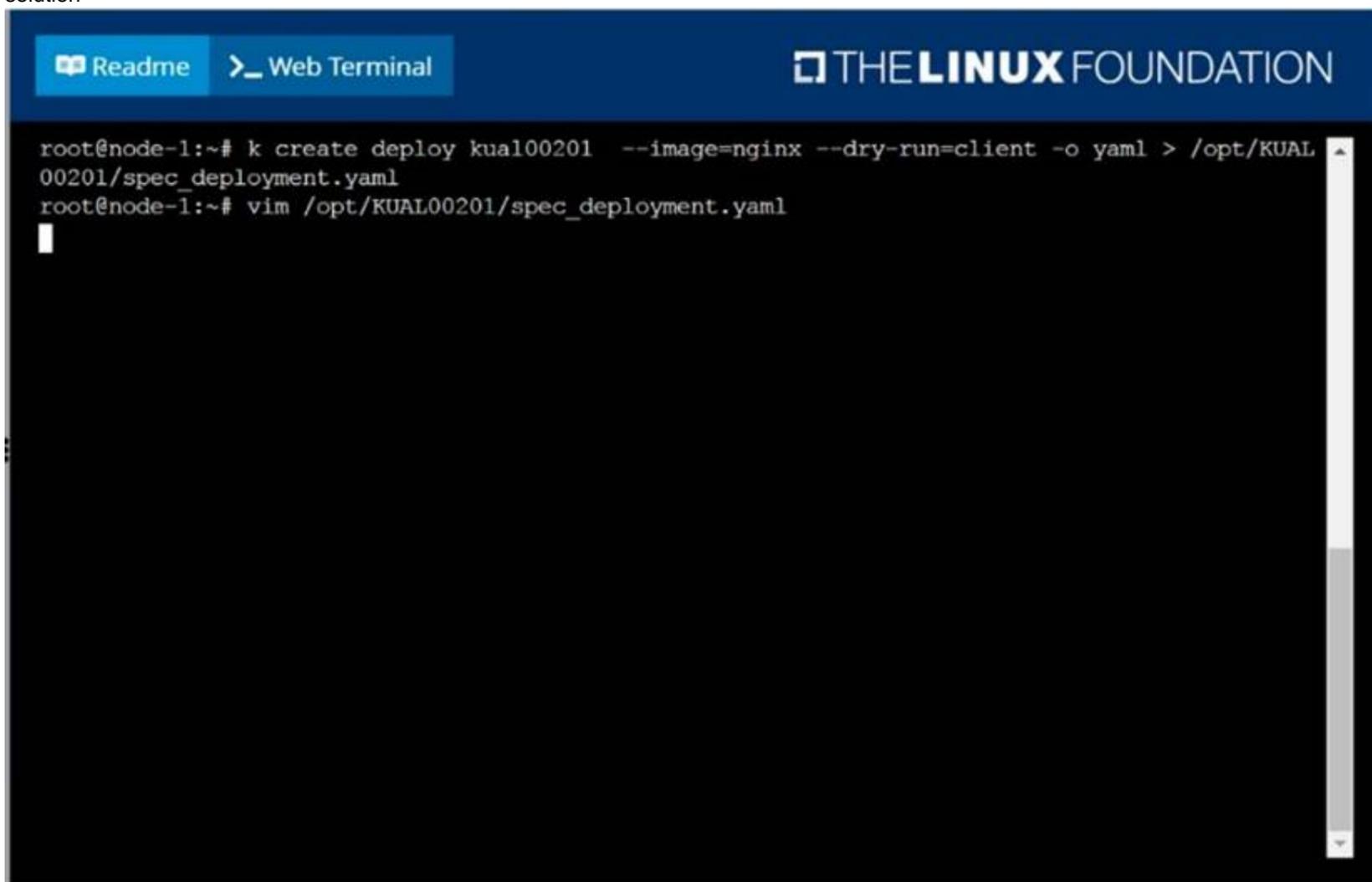
Readme  Web Terminal  THE LINUX FOUNDATION

root@node-1:~#
root@node-1:~# k create deploy nginx-random --image=nginx
deployment.apps/nginx-random created
root@node-1:~# k expose deploy nginx-random --name=nginx-random --port=80 --target-port=80
service/nginx-random exposed
root@node-1:~# vim dns.yaml

```

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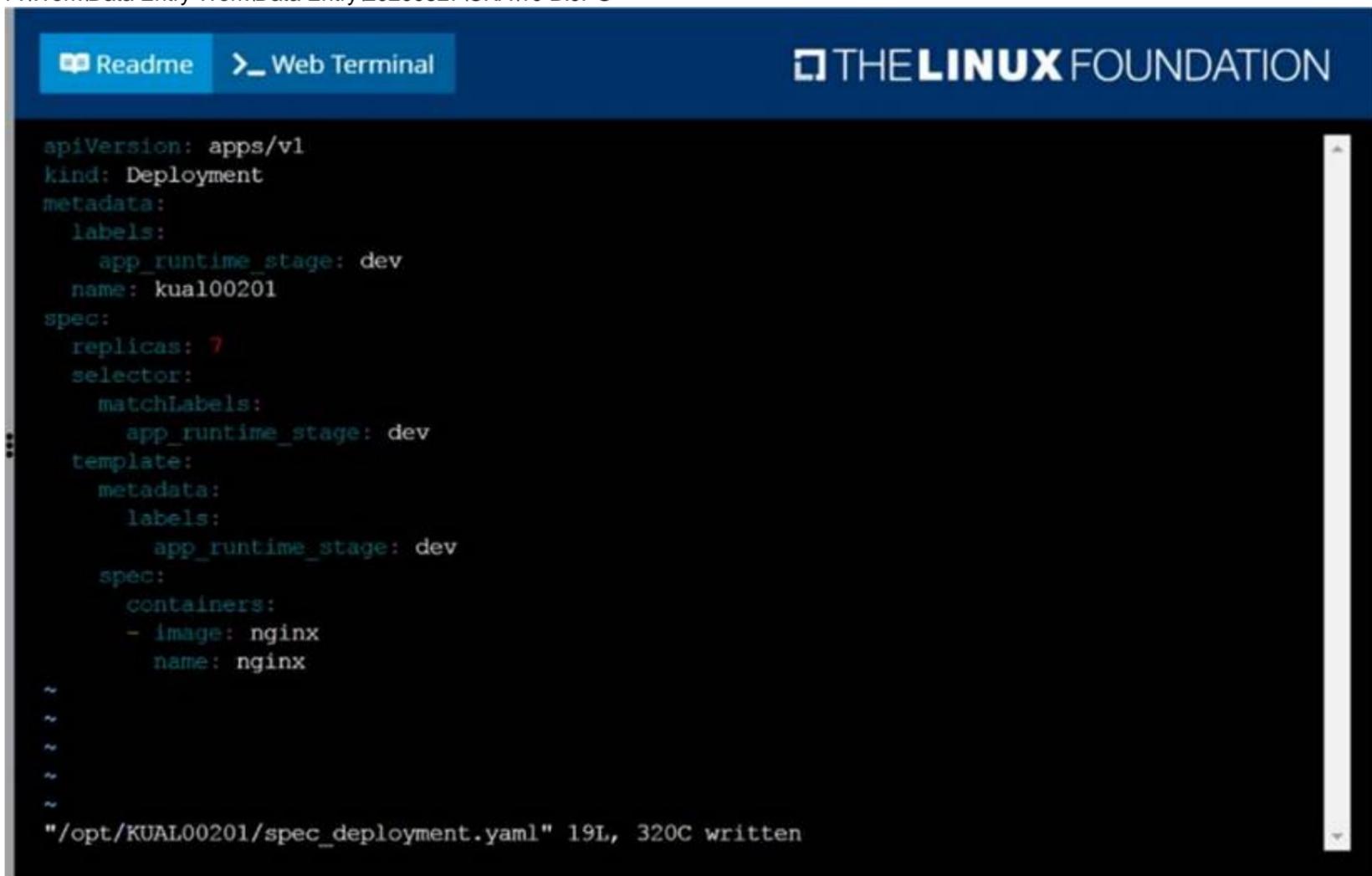
Explanation:
 solution



The screenshot shows a web terminal window with a dark background. At the top, there are two buttons: 'Readme' and 'Web Terminal'. The terminal text is as follows:

```
root@node-1:~# k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL
00201/spec_deployment.yaml
root@node-1:~# vim /opt/KUAL00201/spec_deployment.yaml
```

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The screenshot shows a web terminal window with a dark background. At the top, there are two buttons: 'Readme' and 'Web Terminal'. The terminal text is as follows:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app_runtime_stage: dev
  name: kual00201
spec:
  replicas: 7
  selector:
    matchLabels:
      app_runtime_stage: dev
  template:
    metadata:
      labels:
        app_runtime_stage: dev
    spec:
      containers:
      - image: nginx
        name: nginx
~
~
~
~
~
"/opt/KUAL00201/spec_deployment.yaml" 19L, 320C written
```

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NEW QUESTION 8

CORRECT TEXT

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

```

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

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```

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:~#
    
```

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NEW QUESTION 9
 CORRECT TEXT
 Score: 7%

No configuration context
change required for this
task.



Ensure, however, that you have
returned to the base node
before starting to work on this
task:

```
[student@mk8s-master-0] |  
$  
exit
```

Task
First, create a snapshot of the existing etcd instance running at <https://127.0.0.1:2379>, saving the snapshot to `/srv/data/etcd-snapshot.db`.

Creating a snapshot of the
given instance is expected
to complete in seconds.



If the operation seems to hang,
something's likely wrong with
your command. Use `CTRL + C`
to cancel the operation and try
again.

Next, restore an existing, previous snapshot located at `/var/lib/backup/etcd-snapshot-previous.us.db`

The following TLS certificates/key are supplied for connecting to the server with etcdctl :

- CA certificate:
/opt/KUIN00601/ca.crt
- Client certificate:
/opt/KUIN00601/etcd-client.crt
- Client key:
/opt/KUIN00601/etcd-client.key

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
#backup
ETCDCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" --cacert=/opt/KUIN00601/ca.crt --cert=/opt/KUIN00601/etcd-client.crt --key=/opt/KUIN00601/etcd-client.key snapshot save /etc/data/etcd-snapshot.db
#restore
ETCDCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" --cacert=/opt/KUIN00601/ca.crt --cert=/opt/KUIN00601/etcd-client.crt --key=/opt/KUIN00601/etcd-client.key snapshot restore /var/lib/backup/etcd-snapshot-previoys.db
```

NEW QUESTION 10

CORRECT TEXT

Score: 7%

Set configuration context: 

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

Task
 Reconfigure the existing deployment front-end and add a port specification named http exposing port 80/tcp of the existing container nginx.
 Create a new service named front-end-svc exposing the container port http.
 Configure the new service to also expose the individual Pods via a NodePort on the nodes on which they are scheduled.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:
 kubectl get deploy front-end
 kubectl edit deploy front-end -o yaml
 #port specification named http
 #service.yaml
 apiVersion: v1
 kind: Service
 metadata:
 name: front-end-svc
 labels:
 app: nginx
 spec:
 ports:
 - port: 80
 protocol: tcp
 name: http
 selector:
 app: nginx
 type: NodePort
 # kubectl create -f service.yaml
 # kubectl get svc
 # port specification named http
 kubectl expose deployment front-end --name=front-end-svc --port=80 --target-port=80 --type=NodePort

NEW QUESTION 10

CORRECT TEXT

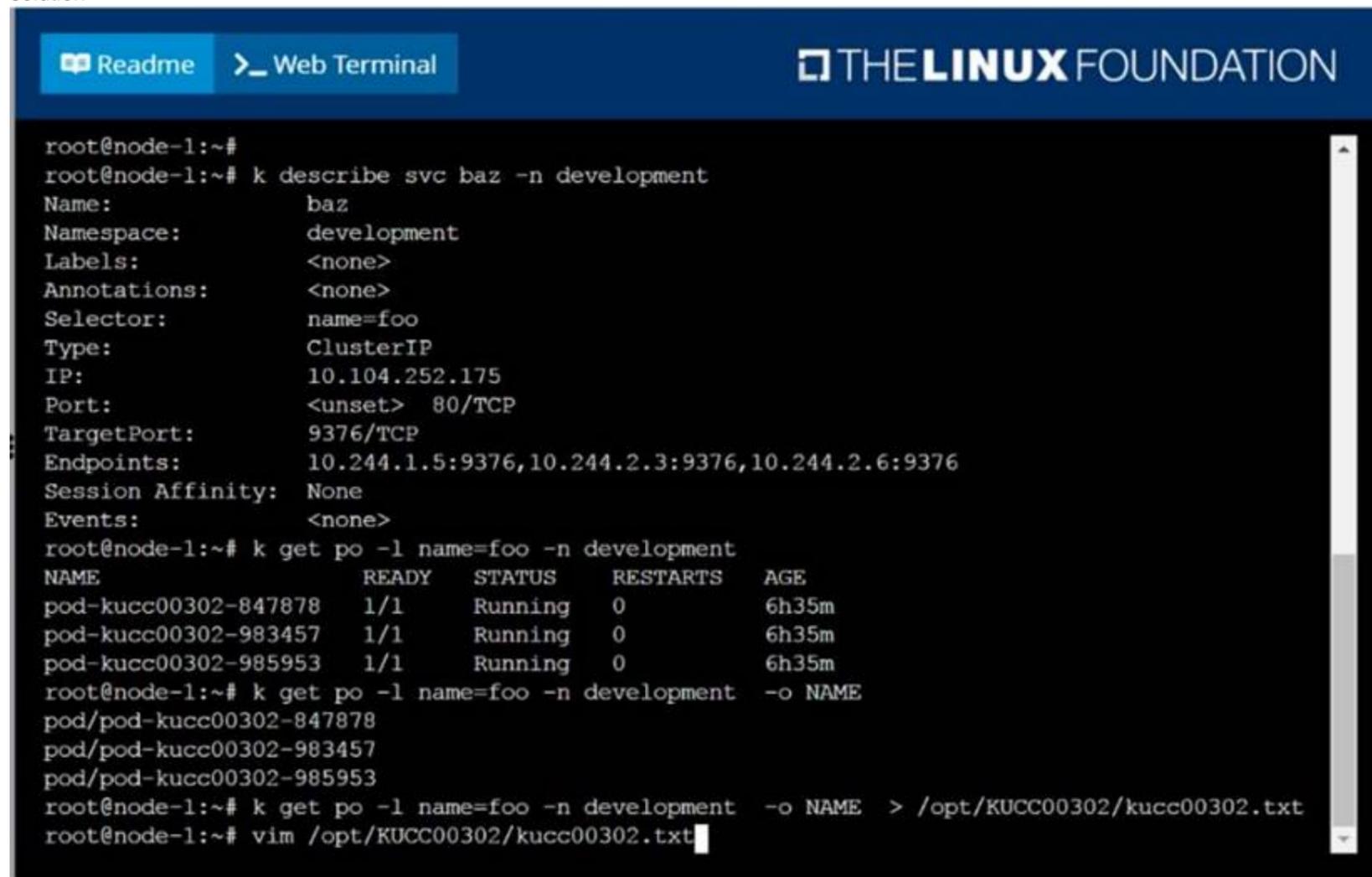
Create a file:
 /opt/KUCC00302/kucc00302.txt that lists all pods that implement service baz in namespace development.
 The format of the file should be one pod name per line.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

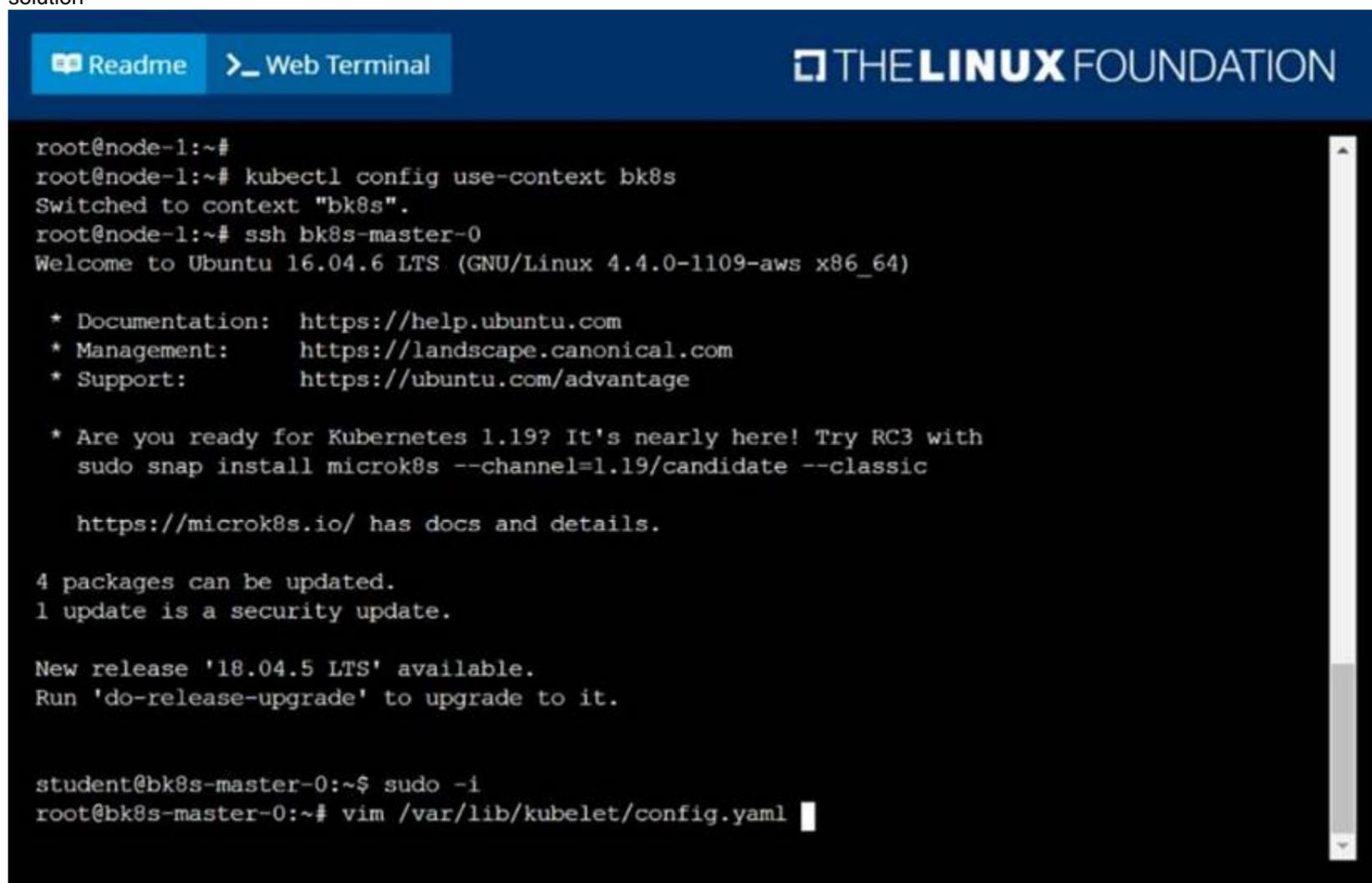


```

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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Explanation:
 solution



The screenshot shows a web terminal interface with a blue header containing 'THE LINUX FOUNDATION' logo and navigation buttons for 'Readme' and 'Web Terminal'. The terminal output shows the following sequence of commands and responses:

```

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

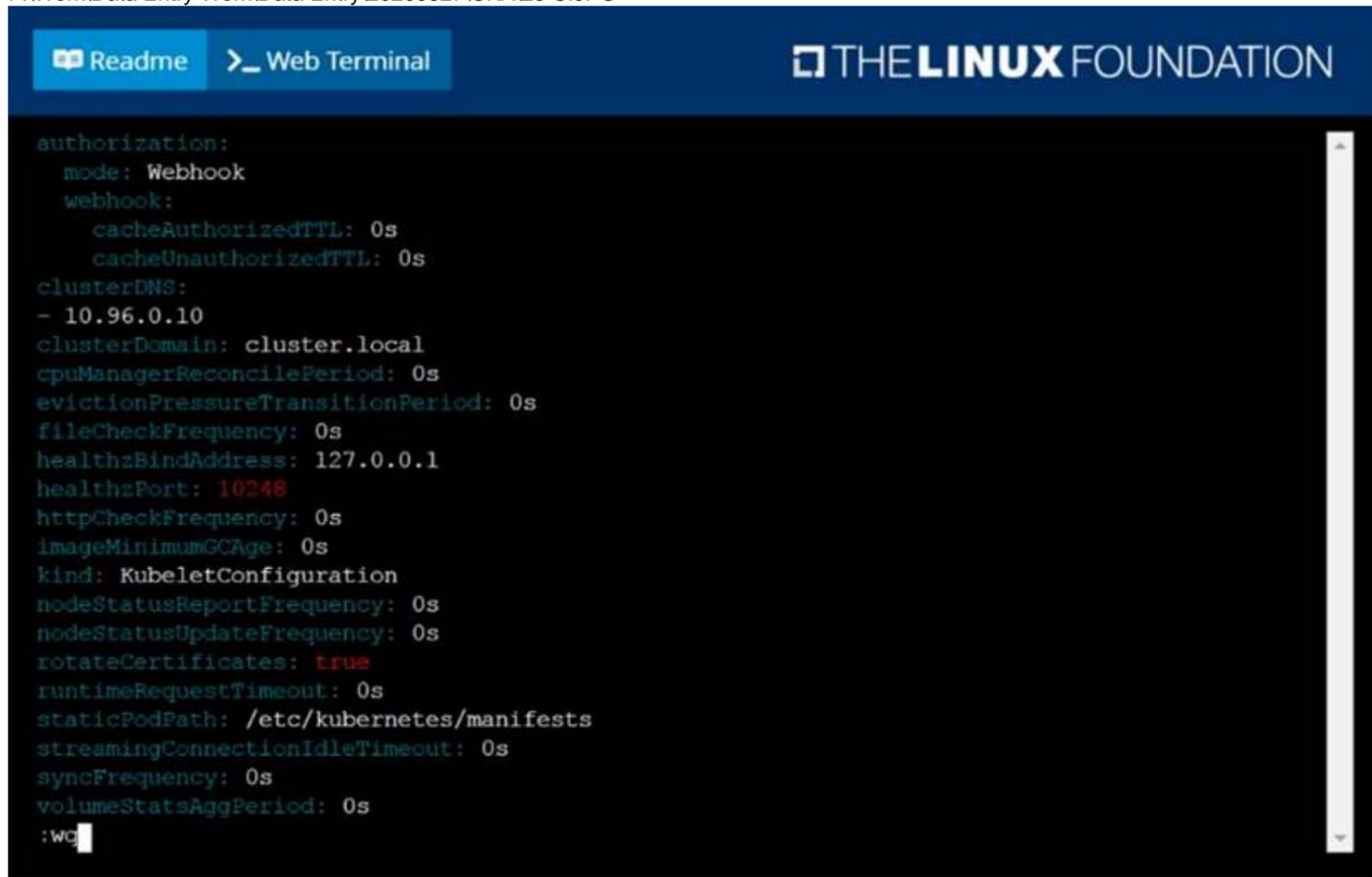
 * Are you ready for Kubernetes 1.19? It's nearly here! Try RC3 with
   sudo snap install microk8s --channel=1.19/candidate --classic
   https://microk8s.io/ has docs and details.

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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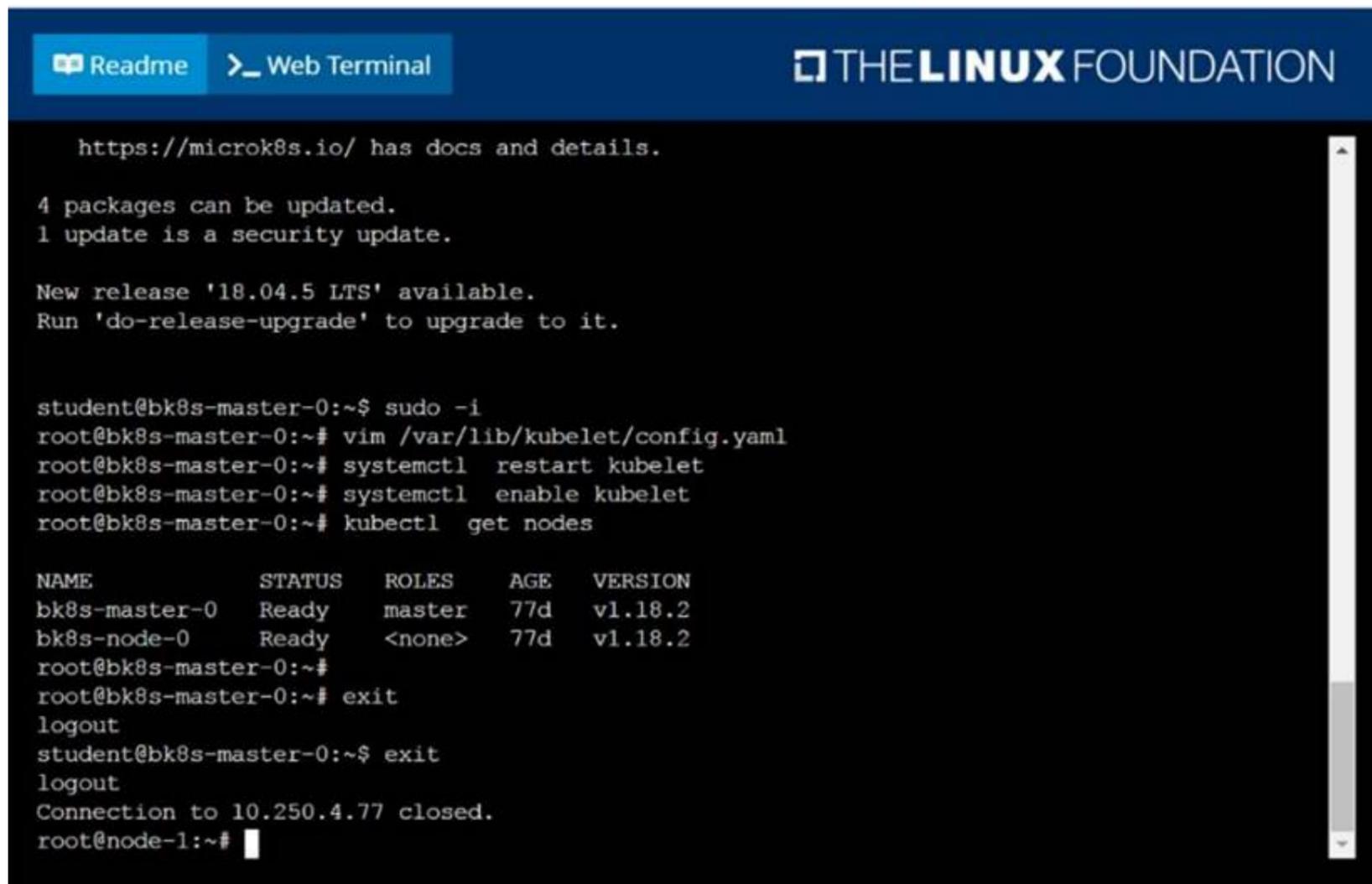


The screenshot shows a web terminal interface with a blue header containing 'THE LINUX FOUNDATION' logo and navigation buttons for 'Readme' and 'Web Terminal'. The terminal output shows the contents of the kubelet configuration file:

```

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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The screenshot shows a web terminal interface with a dark background and light text. At the top, there are navigation tabs for 'Readme' and 'Web Terminal', and the 'THE LINUX FOUNDATION' logo on the right. The terminal output includes:

```

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:~#

```

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NEW QUESTION 13

CORRECT TEXT

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 18

CORRECT TEXT

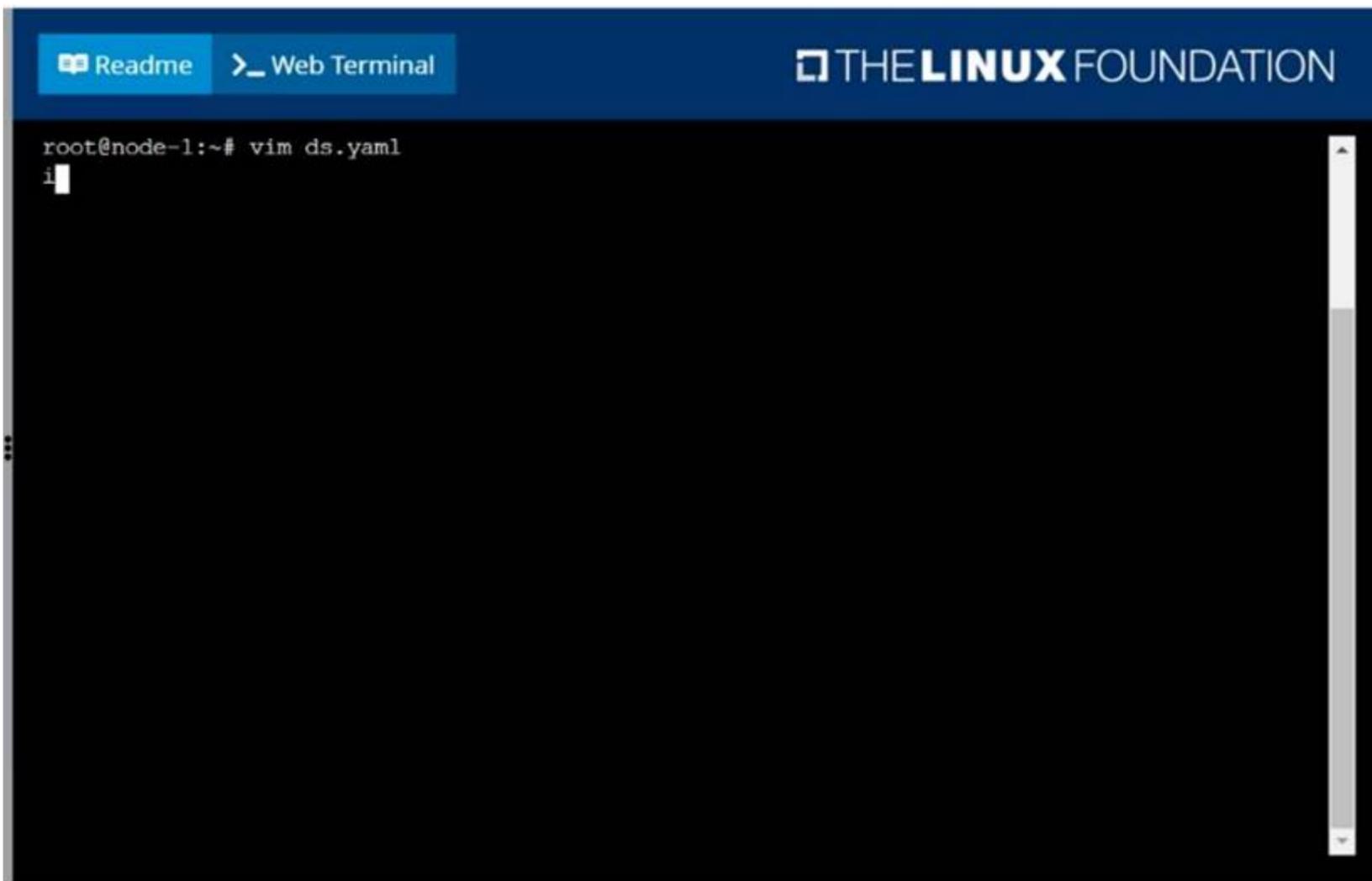
Ensure a single instance of pod nginx is running on each node of the Kubernetes cluster where nginx also represents the Image name which has to be used. Do not override any taints currently in place. Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.

- A. Mastered
- B. Not Mastered

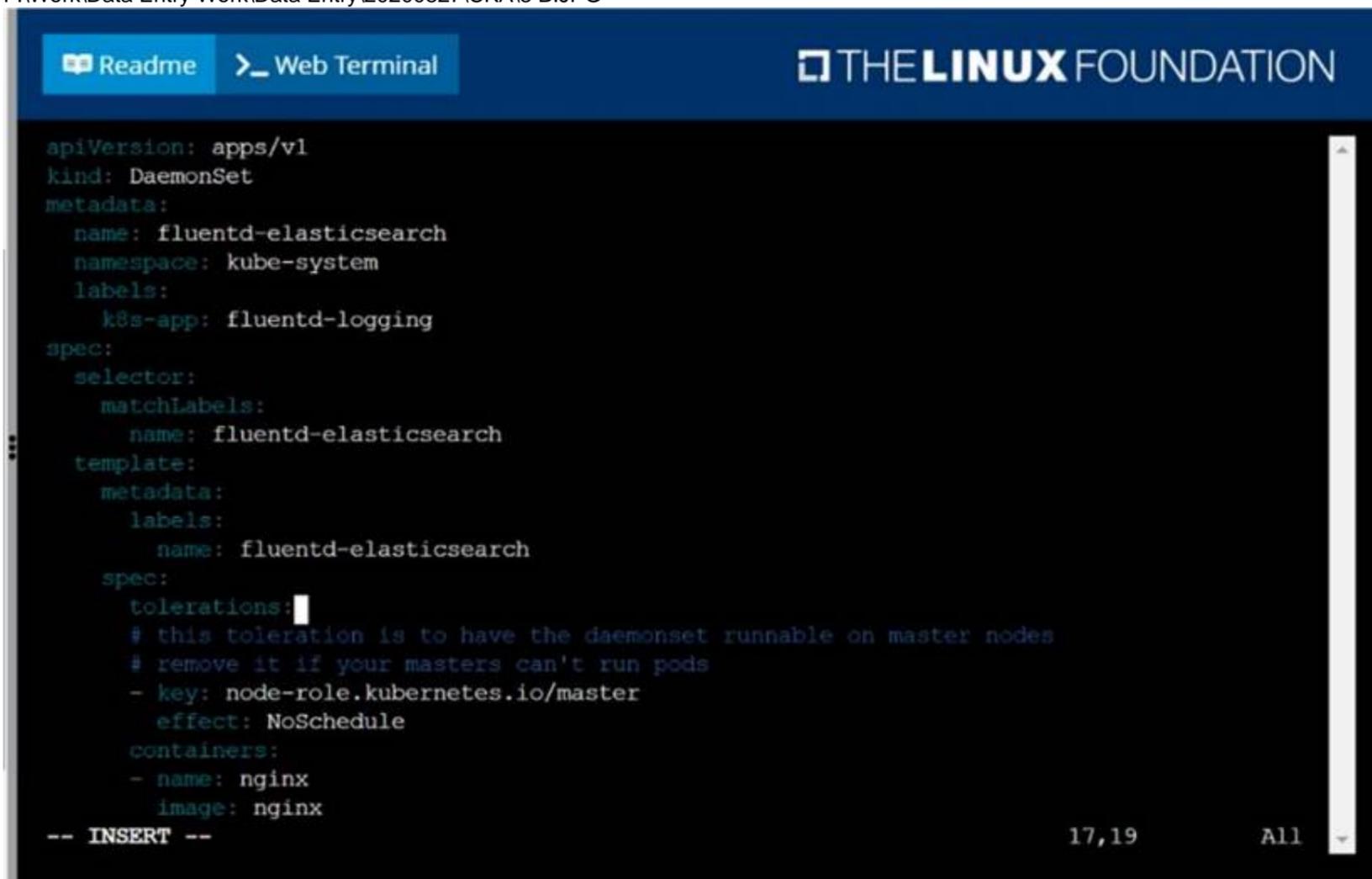
Answer: A

Explanation:

solution



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```

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
  
```

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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:~#

```

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NEW QUESTION 21

CORRECT TEXT

Create a pod as follows:

? Name: non-persistent-redis

? container Image: redis

? Volume with name: cache-control

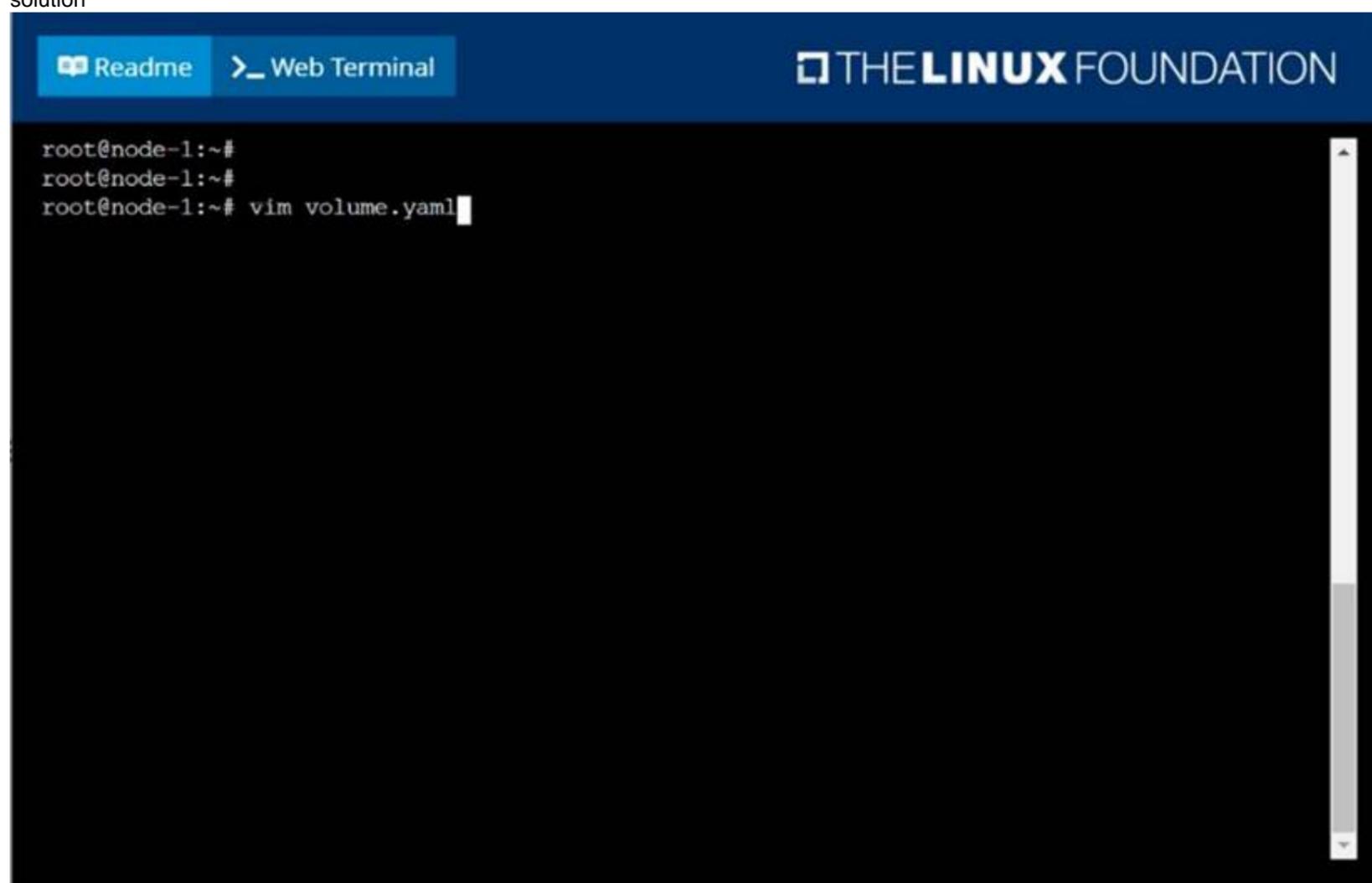
? Mount path: /data/redis

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

- A. Mastered
- B. Not Mastered

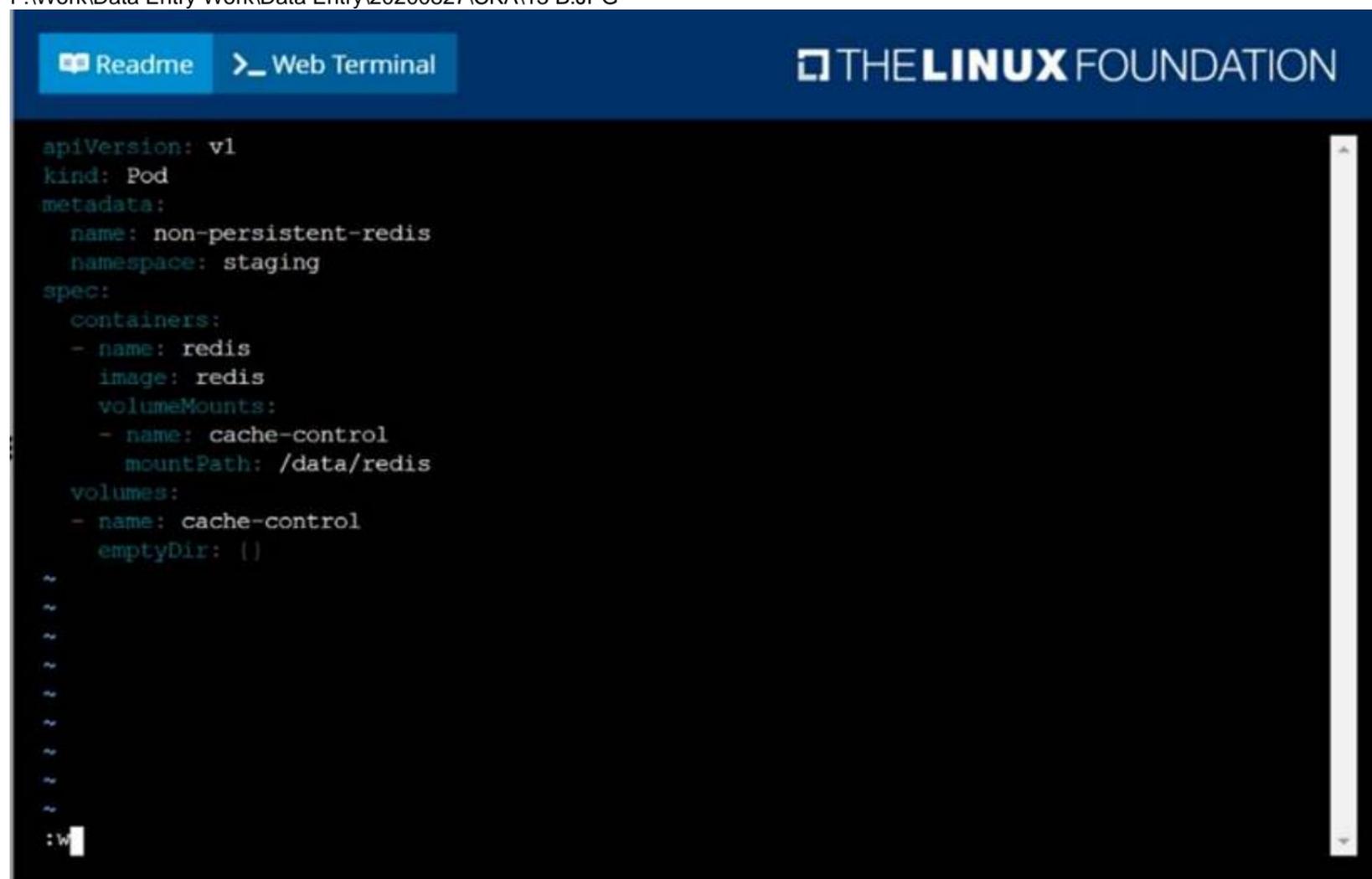
Answer: A

Explanation:
solution



The screenshot shows a web terminal interface with a dark background. At the top, there is a blue header with the text "THE LINUX FOUNDATION" and two buttons: "Readme" and "Web Terminal". The terminal content shows a root user at a node-1 prompt, followed by three lines of commands: `root@node-1:~#`, `root@node-1:~#`, and `root@node-1:~# vim volume.yaml`. A vertical scrollbar is visible on the right side of the terminal window.

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The screenshot shows a web terminal interface with a dark background. At the top, there is a blue header with the text "THE LINUX FOUNDATION" and two buttons: "Readme" and "Web Terminal". The terminal content shows the contents of a YAML file named `volume.yaml`. The text is as follows: `apiVersion: v1`, `kind: Pod`, `metadata:`, `name: non-persistent-redis`, `namespace: staging`, `spec:`, `containers:`, `- name: redis`, `image: redis`, `volumeMounts:`, `- name: cache-control`, `mountPath: /data/redis`, `volumes:`, `- name: cache-control`, `emptyDir: {}`. The terminal ends with a prompt `:w`. A vertical scrollbar is visible on the right side of the terminal window.

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Readme Web Terminal THE **LINUX** FOUNDATION

```

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:~#

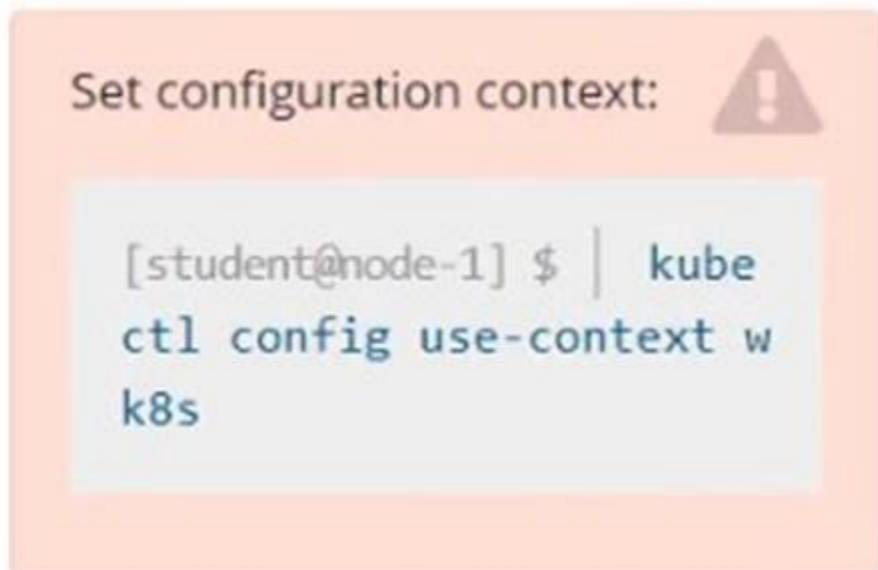
```

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NEW QUESTION 24

CORRECT TEXT

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.

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 -i
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:
 sudo -i
 systemctl status kubelet
 systemctl start kubelet
 systemctl enable kubelet

NEW QUESTION 29

CORRECT TEXT

List the nginx pod with custom columns POD_NAME and POD_STATUS

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 34

CORRECT TEXT

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 httpd named webtool automatically. 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 -i
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

CORRECT TEXT

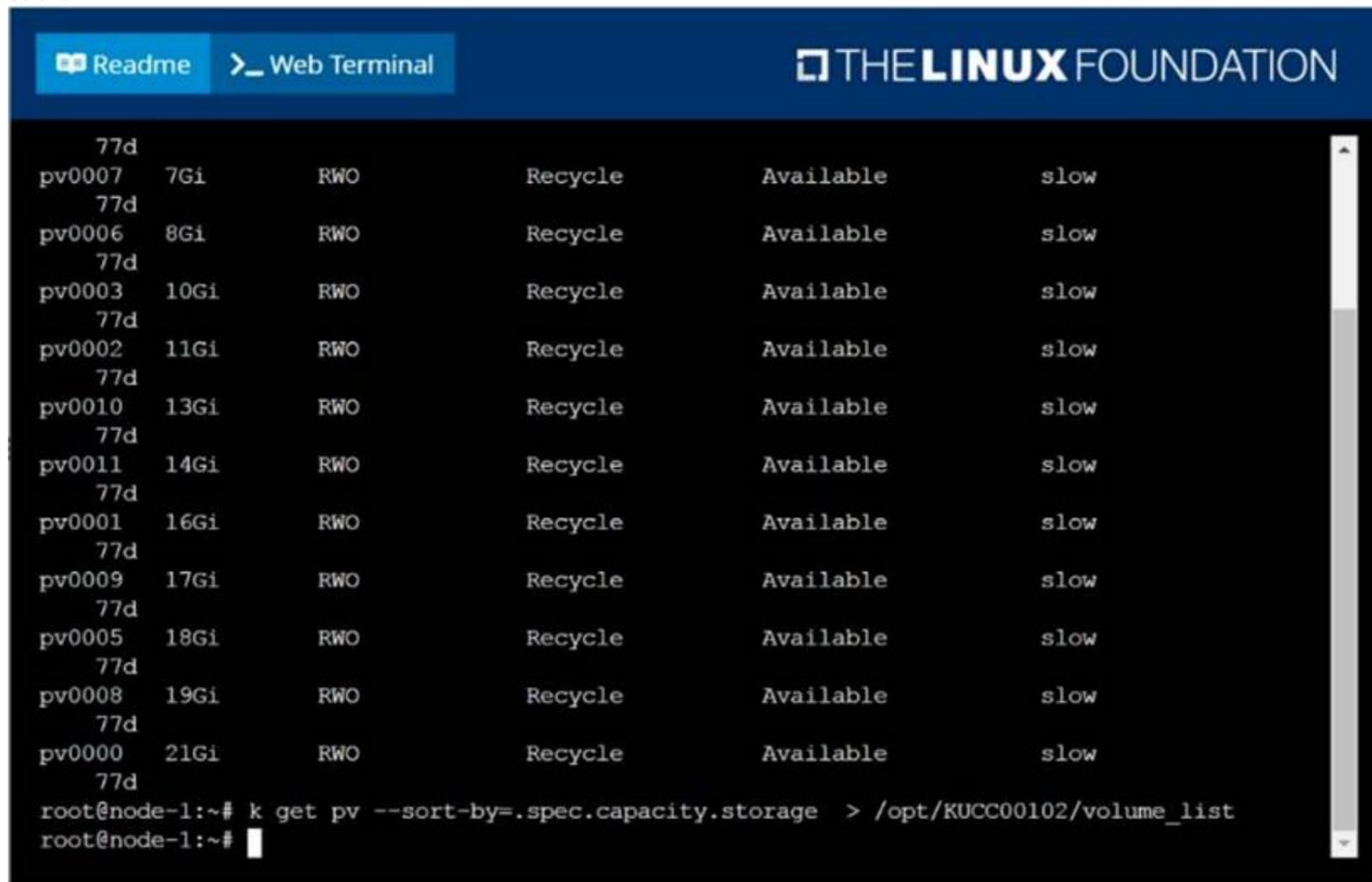
List all persistent volumes sorted by capacity, saving the full kubectl output to /opt/KUCC00102/volume_list. Use kubectl 's own functionality for sorting the output, and do not manipulate it any further.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution



```

77d
pv0007 7Gi RWO Recycle Available slow
77d
pv0006 8Gi RWO Recycle Available slow
77d
pv0003 10Gi RWO Recycle Available slow
77d
pv0002 11Gi RWO Recycle Available slow
77d
pv0010 13Gi RWO Recycle Available slow
77d
pv0011 14Gi RWO Recycle Available slow
77d
pv0001 16Gi RWO Recycle Available slow
77d
pv0009 17Gi RWO Recycle Available slow
77d
pv0005 18Gi RWO Recycle Available slow
77d
pv0008 19Gi RWO Recycle Available slow
77d
pv0000 21Gi RWO Recycle Available slow
77d
root@node-1:~# k get pv --sort-by=.spec.capacity.storage > /opt/KUCC00102/volume_list
root@node-1:~#

```

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NEW QUESTION 46

CORRECT TEXT

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 50

CORRECT TEXT

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 54

CORRECT TEXT

Create a nginx pod with label env=test in engineering namespace

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
kubectl run nginx --image=nginx --restart=Never --labels=env=test
-- namespace=engineering --dry-run -o yaml > nginx-pod.yaml
kubectl run nginx --image=nginx --restart=Never --labels=env=test --
namespace=engineering --dry-run -o yaml | kubectl create -n engineering -f -
YAML File:
apiVersion: v1
kind: Pod
metadata:
name: nginx
namespace: engineering
labels:
env: test
spec:
containers:
- name: nginx
image: nginx
imagePullPolicy: IfNotPresent
restartPolicy: Never
kubectl create -f nginx-pod.yaml
```

NEW QUESTION 57

CORRECT TEXT

List "nginx-dev" and "nginx-prod" pod and delete those pods

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
kubectl get pods -o wide
kubectl delete po "nginx-dev" kubectl delete po "nginx-prod"
```

NEW QUESTION 58

CORRECT TEXT

Score: 4%



Task

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

SOLUTION:

```
[student@node-1] > ssh ek8s
kubectl cordon ek8s-node-1
kubectl drain ek8s-node-1 --delete-local-data --ignore-daemonsets --force
```

NEW QUESTION 61

.....

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