

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

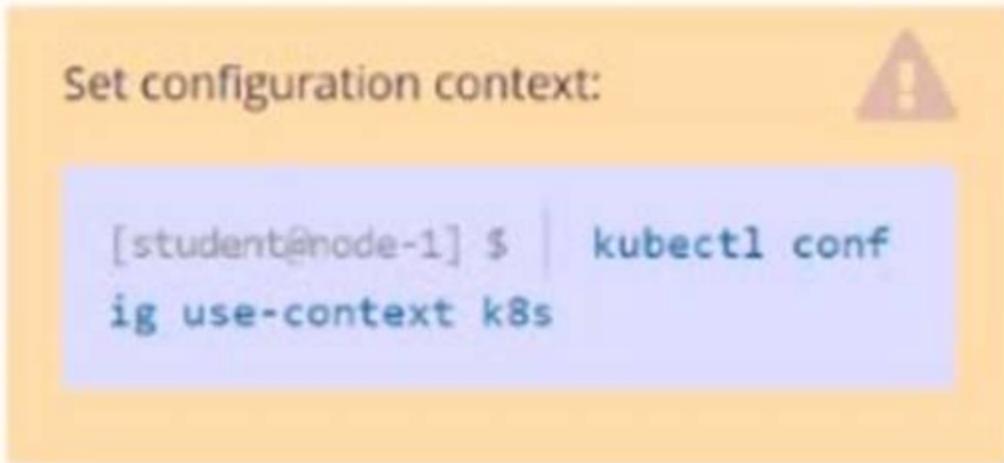
Explanation:

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

NEW QUESTION 2

CORRECT TEXT

Task Weight: 4%



Task

Schedule a Pod as follows:

- Name: kucc1
- App Containers: 2
- Container Name/Images: o nginx
o consul

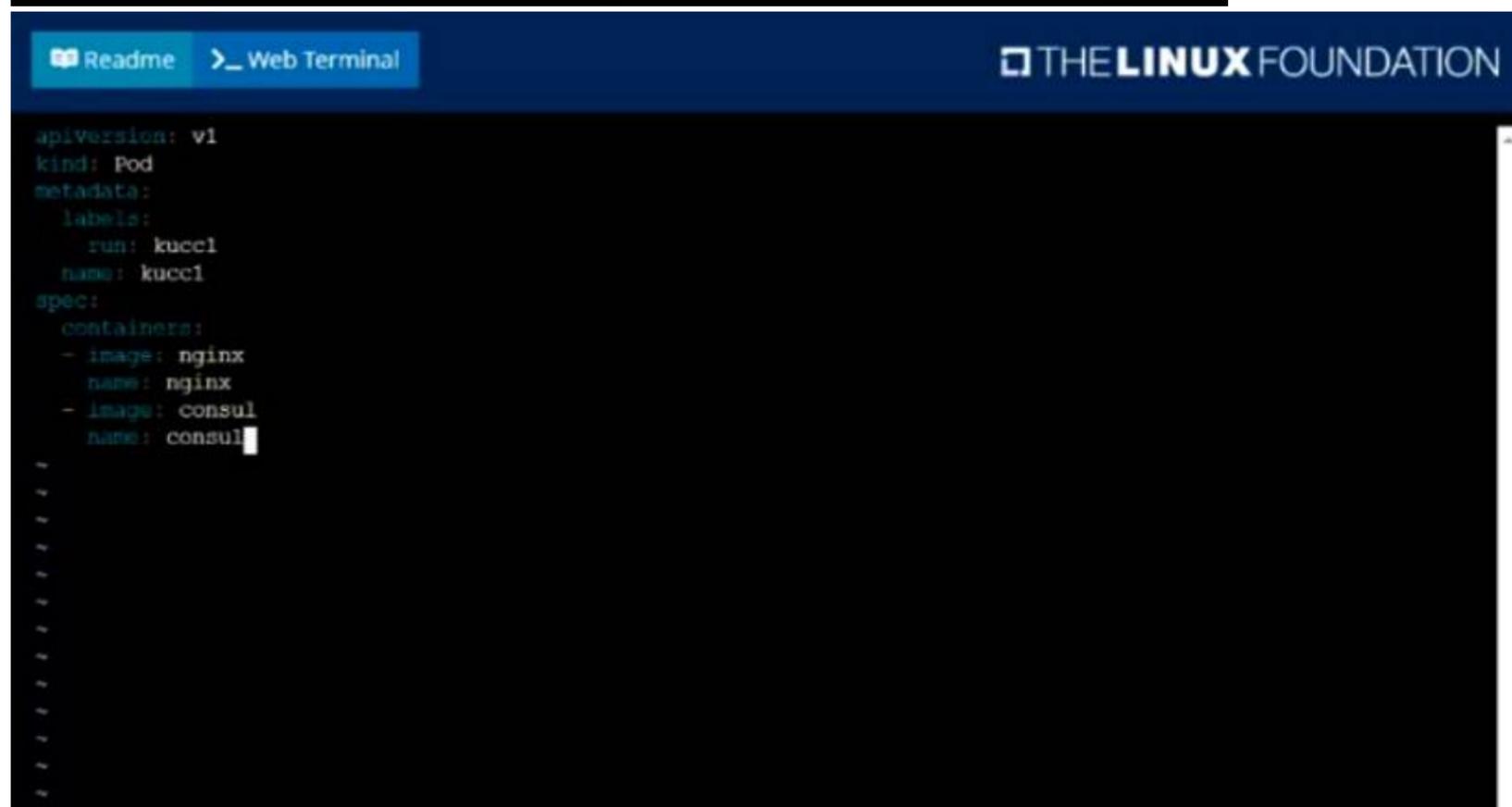
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
student@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
student@node-1:~$ kubectl run kucc1 --image=nginx --dry-run=client -o yaml > aa.y
```



Graphical user interface, text, application
 Description automatically generated

```

student@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
student@node-1:~$ kubectl run kucc1 --image=nginx --dry-run=client -o yaml > aa.yaml
student@node-1:~$ vim aa.yaml
student@node-1:~$ kubectl create -f aa.yaml
pod/kucc1 created
student@node-1:~$ kubectl get pods
NAME                READY   STATUS              RESTARTS   AGE
ll-factor-app       1/1     Running             0           6h34m
cpu-loader-98b9se   1/1     Running             0           6h33m
cpu-loader-ab2d3s   1/1     Running             0           6h33m
cpu-loader-kipb9a   1/1     Running             0           6h33m
foobar              1/1     Running             0           6h34m
front-end-6bc87b9748-24rcm  1/1     Running             0           5m4s
front-end-6bc87b9748-hd5wp  1/1     Running             0           5m2s
kucc1                0/2     ContainerCreating   0           3s
nginx-kusc00401     1/1     Running             0           2m28s
webserver-84c89dfd75-2d1jn  1/1     Running             0           6h38m
webserver-84c89dfd75-8d8x2  1/1     Running             0           6h38m
webserver-84c89dfd75-z5zz4  1/1     Running             0           3m51s
student@node-1:~$ █

```

Text Description automatically generated

NEW QUESTION 3

CORRECT TEXT

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

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:~# 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 5

CORRECT TEXT

Create and configure the service front-end-service so it's accessible through NodePort and routes to the existing pod named front-end.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

```

root@node-1:~# k expose po
error: resource(s) were provided, but no name, label selector, or --all flag specified
See 'kubectl expose -h' for help and examples
root@node-1:~# k expose po fron-end --name=front-end-service --port=80 --target-port=80 --t
ype=NodePort
Error from server (NotFound): pods "fron-end" not found
root@node-1:~# k expose po front-end --name=front-end-service --port=80 --target-port=80 --
type=NodePort
service/front-end-service exposed
root@node-1:~# k get svc
NAME                                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
front-end-service                   NodePort            10.103.221.227  <none>           80:31828/TCP    3s
kubernetes                           ClusterIP           10.96.0.1       <none>           443/TCP         77d
root@node-1:~#

```

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NEW QUESTION 6

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 7

CORRECT TEXT

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

- A. Mastered
- B. Not Mastered

Answer: A

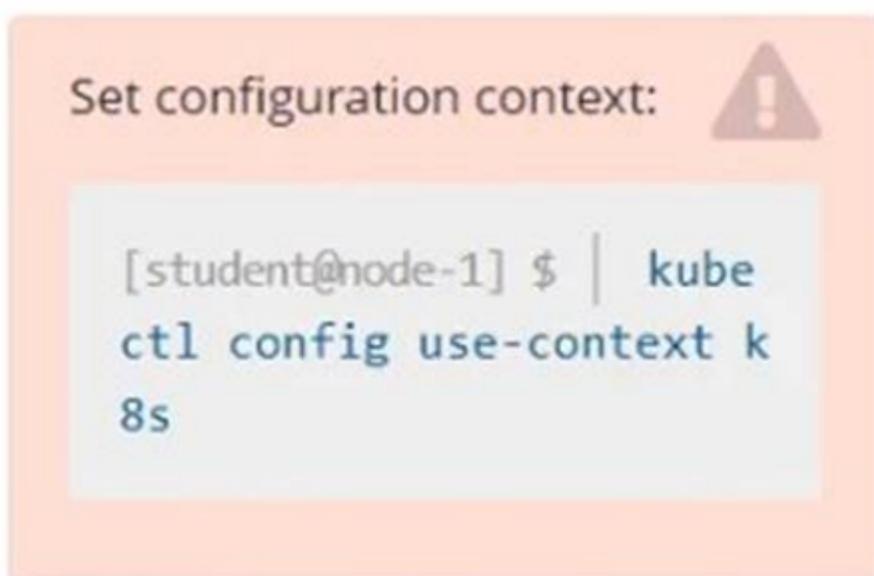
Explanation:

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

NEW QUESTION 8

CORRECT TEXT

Score: 4%



Task

Schedule a pod as follows:

- Name: nginx-kusc00401
- Image: nginx
- Node selector: disk=ssd

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
#yaml
apiVersion: v1
kind: Pod
metadata:
name: nginx-kusc00401
spec:
containers:
- name: nginx
image: nginx
imagePullPolicy: IfNotPresent
nodeSelector:
disk: spinning
#
kubect1 create -f node-select.yaml
```

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/KUIN000601/ca.crt --cert=/opt/KUIN000601/etcd-client.crt -- key=/opt/KUIN000601/etcd-client.key snapshot save /etc/data/etcd-snapshot.db

#restore

ETCDCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" --

cacert=/opt/KUIN000601/ca.crt --cert=/opt/KUIN000601/etcd-client.crt -- key=/opt/KUIN000601/etcd-client.key snapshot restore /var/lib/backup/etcd-snapshot-previoys.db

NEW QUESTION 10

CORRECT TEXT

Score: 7%

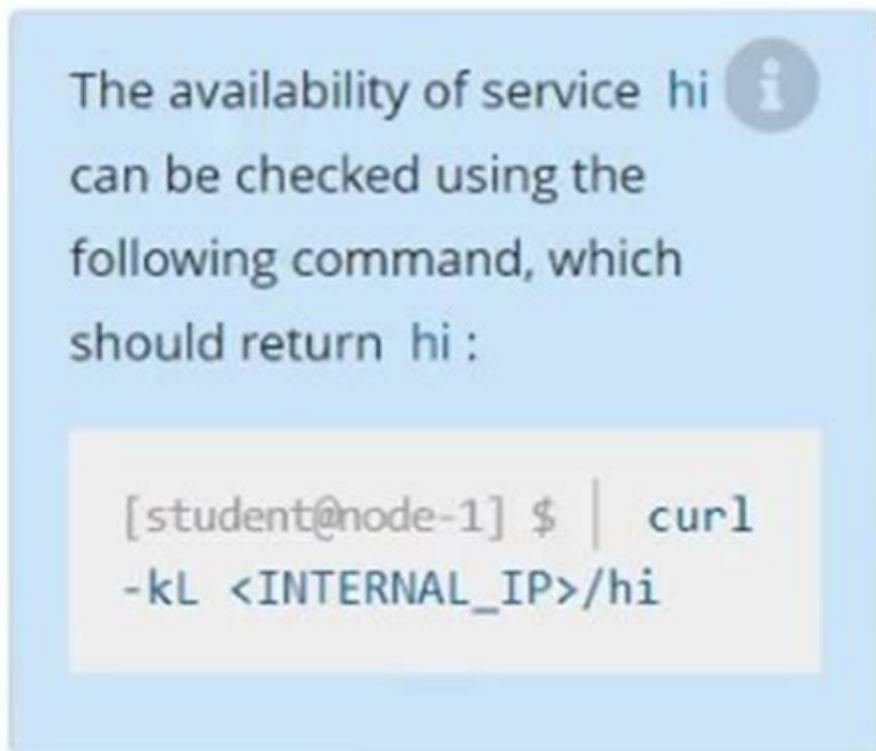
Set configuration context: 

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

Task

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 10

CORRECT TEXT
 Check the Image version of nginx-dev pod using jsonpath

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
 kubectl get po nginx-dev -o
 jsonpath='{.spec.containers[].image}'{"\n"}'

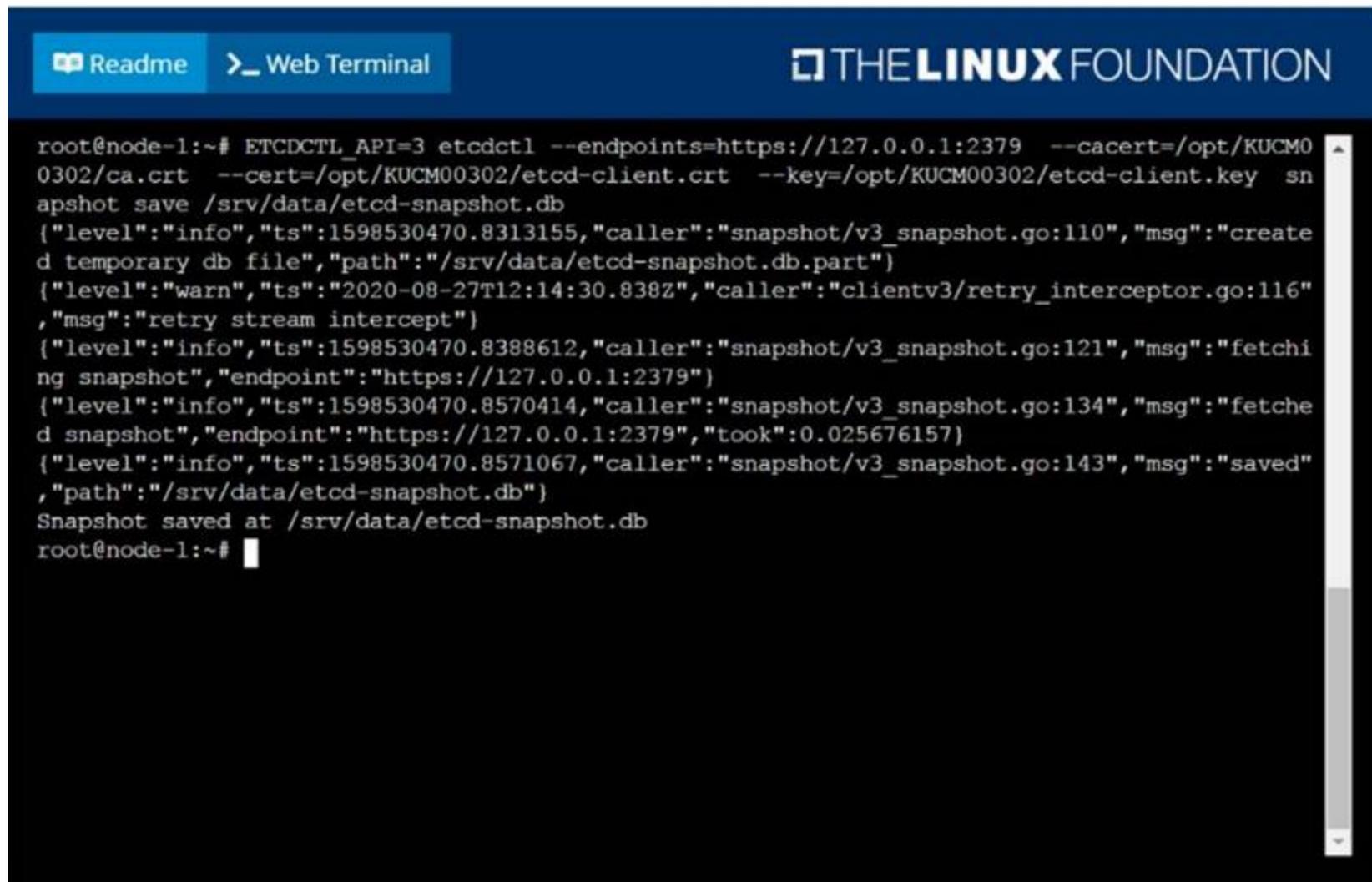
NEW QUESTION 15

CORRECT TEXT
 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



```

root@node-1:~# ETCDCCTL_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
{"level":"info","ts":1598530470.8313155,"caller":"snapshot/v3_snapshot.go:110","msg":"create temporary db file","path":"/srv/data/etcd-snapshot.db.part"}
{"level":"warn","ts":"2020-08-27T12:14:30.838Z","caller":"clientv3/retry_interceptor.go:116","msg":"retry stream intercept"}
{"level":"info","ts":1598530470.8388612,"caller":"snapshot/v3_snapshot.go:121","msg":"fetching snapshot","endpoint":"https://127.0.0.1:2379"}
{"level":"info","ts":1598530470.8570414,"caller":"snapshot/v3_snapshot.go:134","msg":"fetched snapshot","endpoint":"https://127.0.0.1:2379","took":0.025676157}
{"level":"info","ts":1598530470.8571067,"caller":"snapshot/v3_snapshot.go:143","msg":"saved","path":"/srv/data/etcd-snapshot.db"}
Snapshot saved at /srv/data/etcd-snapshot.db
root@node-1:~#
    
```

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NEW QUESTION 17

CORRECT TEXT

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}'{"\n"}
    
```

NEW QUESTION 20

CORRECT TEXT

For this item, you will have to ssh to the nodes ik8s-master-0 and ik8s-node-0 and complete all tasks on these nodes. 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 node ik8s-master-0 as a master node. .

? Join the node ik8s-node-0 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 apt has been configured so that you can install the required tools.

NEW QUESTION 24

CORRECT TEXT

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

The screenshot shows a terminal window with the following content:

```

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:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
root@node-1:~# k create -f /opt/KUCC00108/pod-spec-KUCC00108.yaml
pod/hungry-bear created
root@node-1:~# k get po
NAME                                READY   STATUS    RESTARTS   AGE
cpu-utilizer-98b9se                 1/1    Running   0           5h50m
cpu-utilizer-ab2d3s                 1/1    Running   0           5h50m
cpu-utilizer-kipb9a                 1/1    Running   0           5h50m
ds-kusc00201-2r2k9                  1/1    Running   0           4m50s
ds-kusc00201-hzm9q                  1/1    Running   0           4m50s
foo                                  1/1    Running   0           5h52m
front-end                           1/1    Running   0           5h52m
hungry-bear                          1/1    Running   0           42s
webserver-84c55967f4-qzjcv          1/1    Running   0           6h7m
webserver-84c55967f4-t479l         1/1    Running   0           6h7m
root@node-1:~# k run nginx --image=nginx --dry-run=client -o yaml > nginx.yaml
root@node-1:~# vim nginx.yaml
    
```

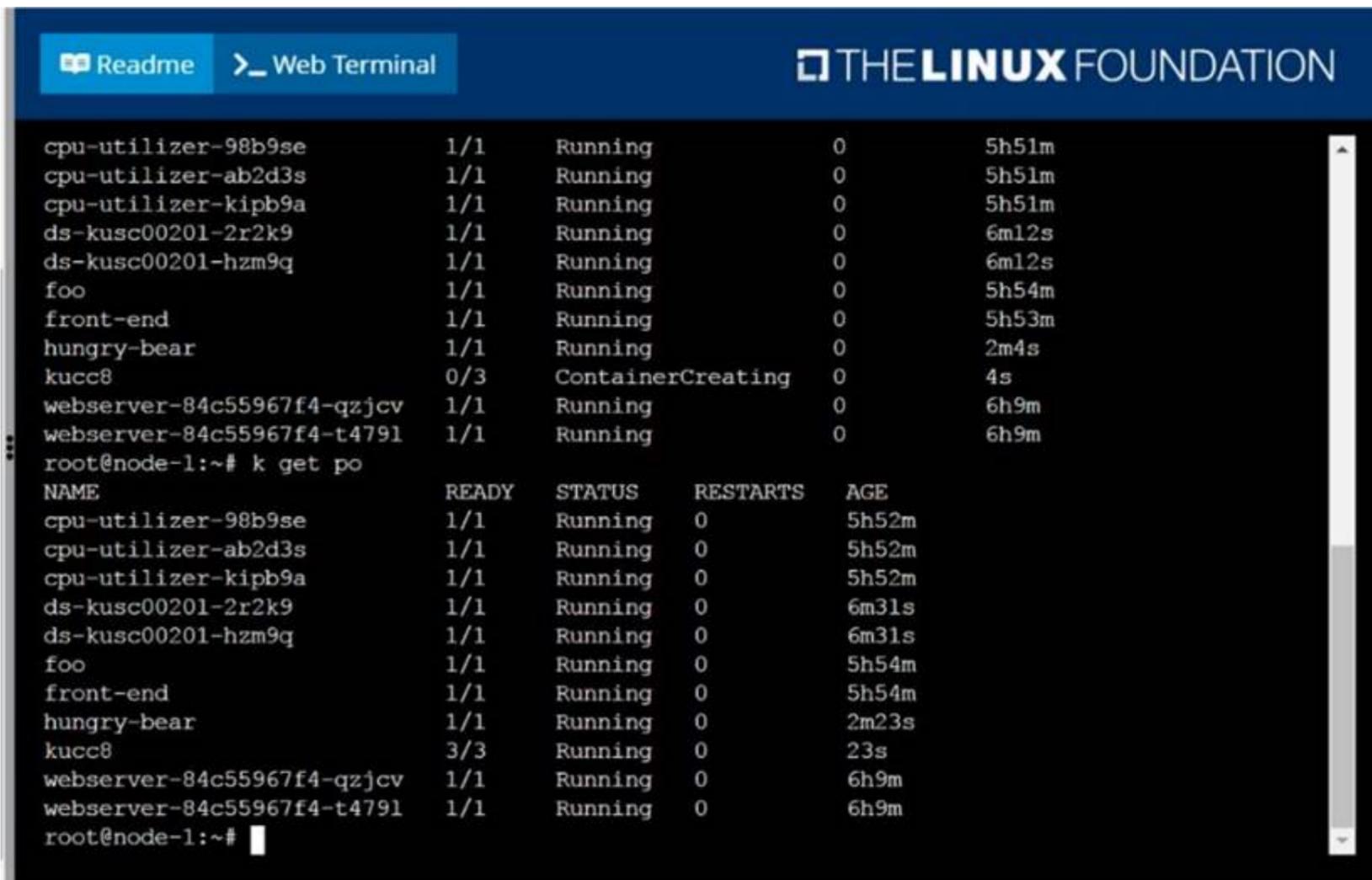
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The screenshot shows a terminal window displaying a Kubernetes pod specification:

```

apiVersion: v1
kind: Pod
metadata:
  name: kucc8
spec:
  containers:
  - image: nginx
    name: nginx
  - image: redis
    name: redis
  - image: memcached
    name: memcached
    
```

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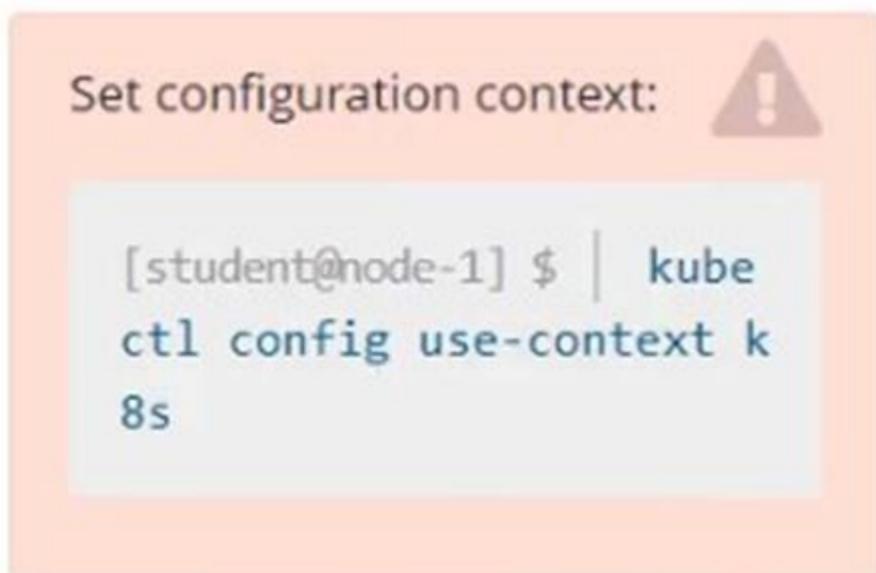


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NEW QUESTION 25

CORRECT TEXT

Score:7%



Context

An existing Pod needs to be integrated into the Kubernetes built-in logging architecture (e.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
#
kubectl get pod big-corp-app -o yaml
#
apiVersion: v1
kind: Pod
metadata:
  name: big-corp-app
spec:
  containers:
  - name: big-corp-app
    image: busybox
    args:
    - /bin/sh
  - -c
```

```
- > i=0;
while true;
do
echo "$(date) INFO $i" >> /var/log/big-corp-app.log;
i=$((i+1));
sleep 1;
done
volumeMounts:
- name: logs
mountPath: /var/log
- name: count-log-1
image: busybox
args: [/bin/sh, -c, 'tail -n+1 -f /var/log/big-corp-app.log']
volumeMounts:
- name: logs
mountPath: /var/log
volumes:
- name: logs
emptyDir: {
}
#
kubectl logs big-corp-app -c count-log-1
```

NEW QUESTION 28

CORRECT TEXT

Create a file:

/opt/KUCC00302/kucc00302.txt that lists all pods that implement service baz in namespace development.

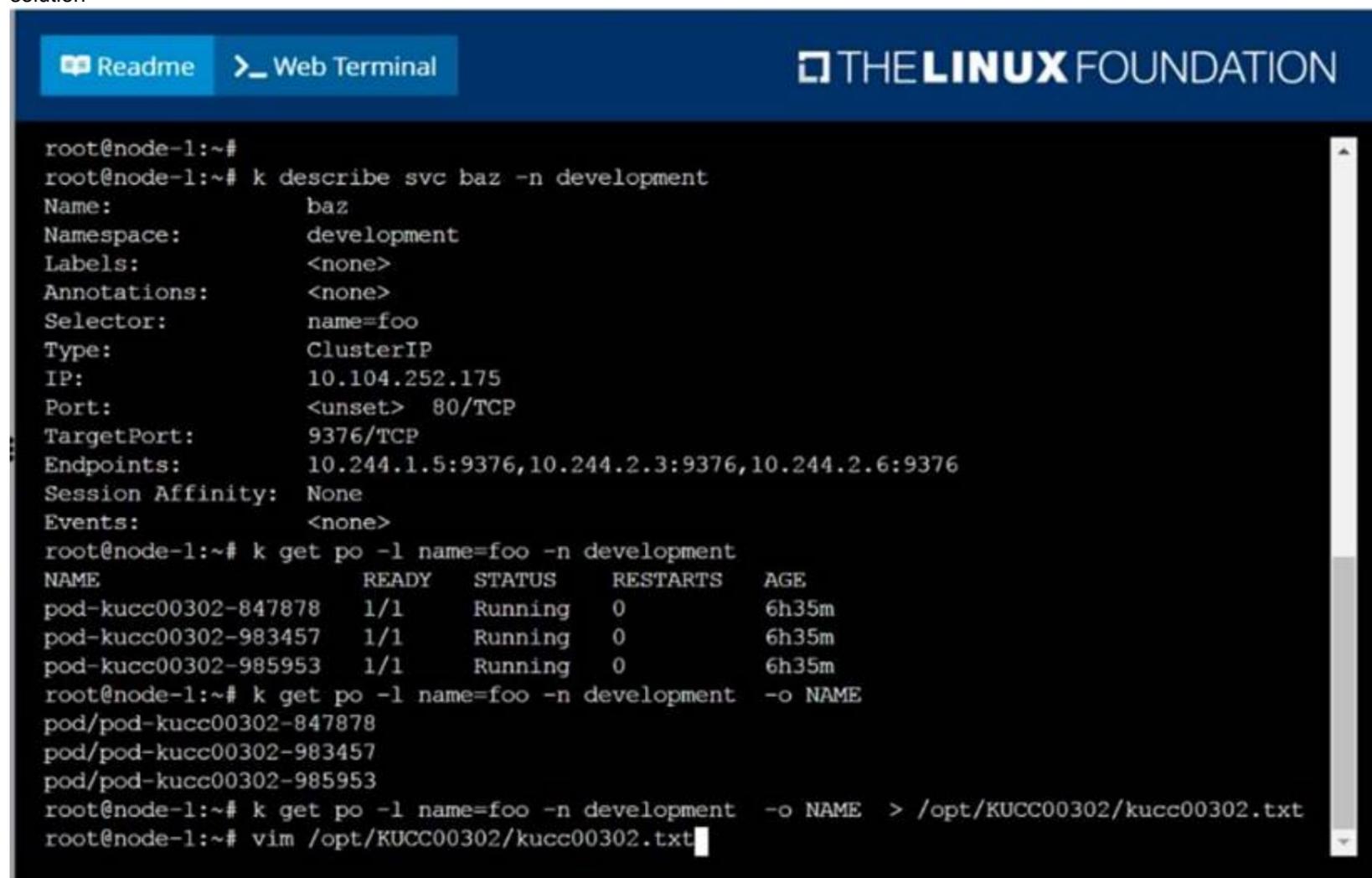
The format of the file should be one pod name per line.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution



```

Readme  Web Terminal  THE LINUX FOUNDATION

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>

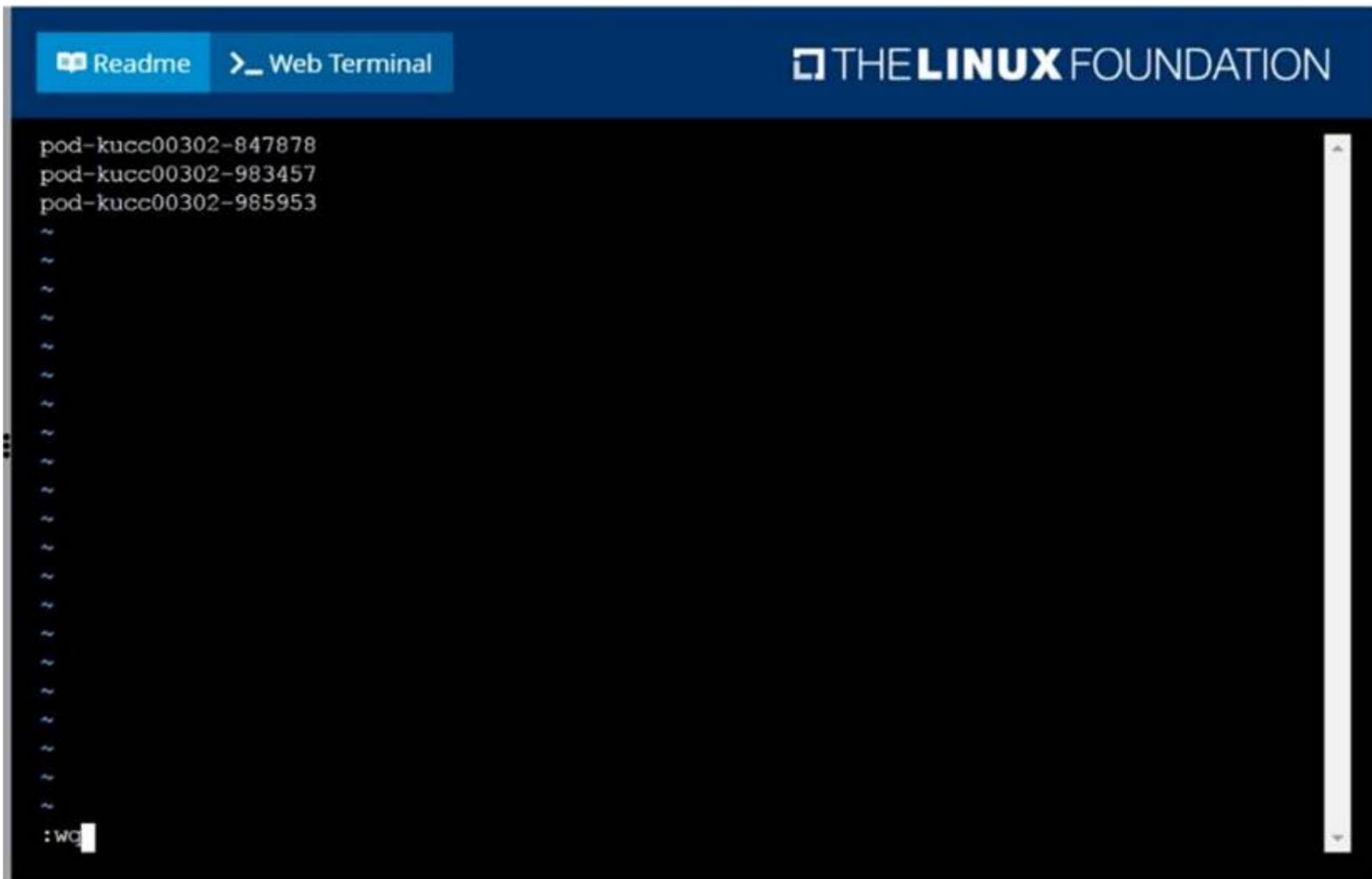
root@node-1:~# k get po -l name=foo -n development
NAME                                READY   STATUS    RESTARTS   AGE
pod-kucc00302-847878                 1/1     Running   0           6h35m
pod-kucc00302-983457                 1/1     Running   0           6h35m
pod-kucc00302-985953                 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

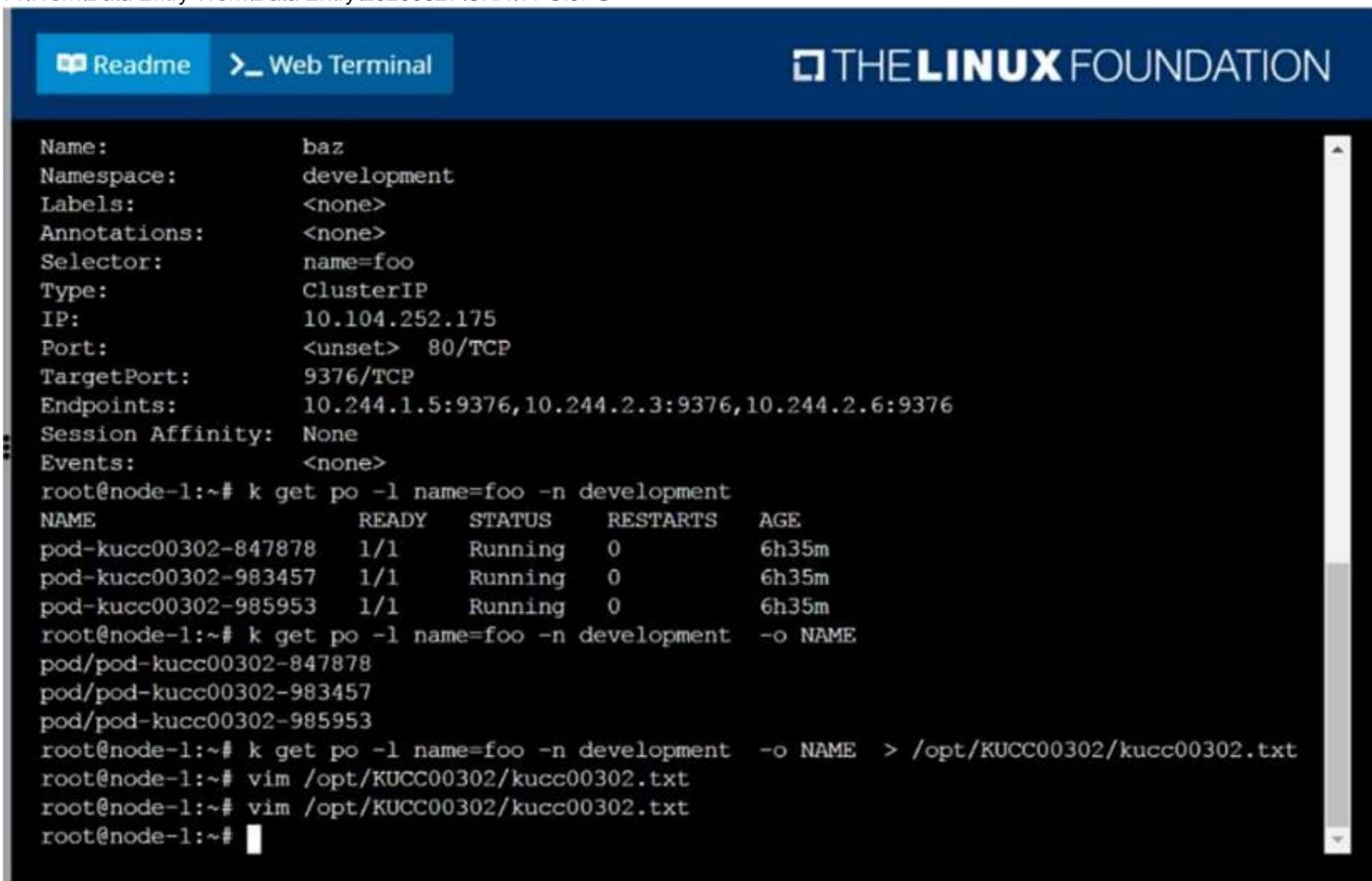
root@node-1:~# k get po -l name=foo -n development -o NAME > /opt/KUCC00302/kucc00302.txt
root@node-1:~# vim /opt/KUCC00302/kucc00302.txt

```

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NEW QUESTION 29

CORRECT TEXT

Create a deployment as follows:

? Name: nginx-app

? Using container nginx with version 1.11.10-alpine

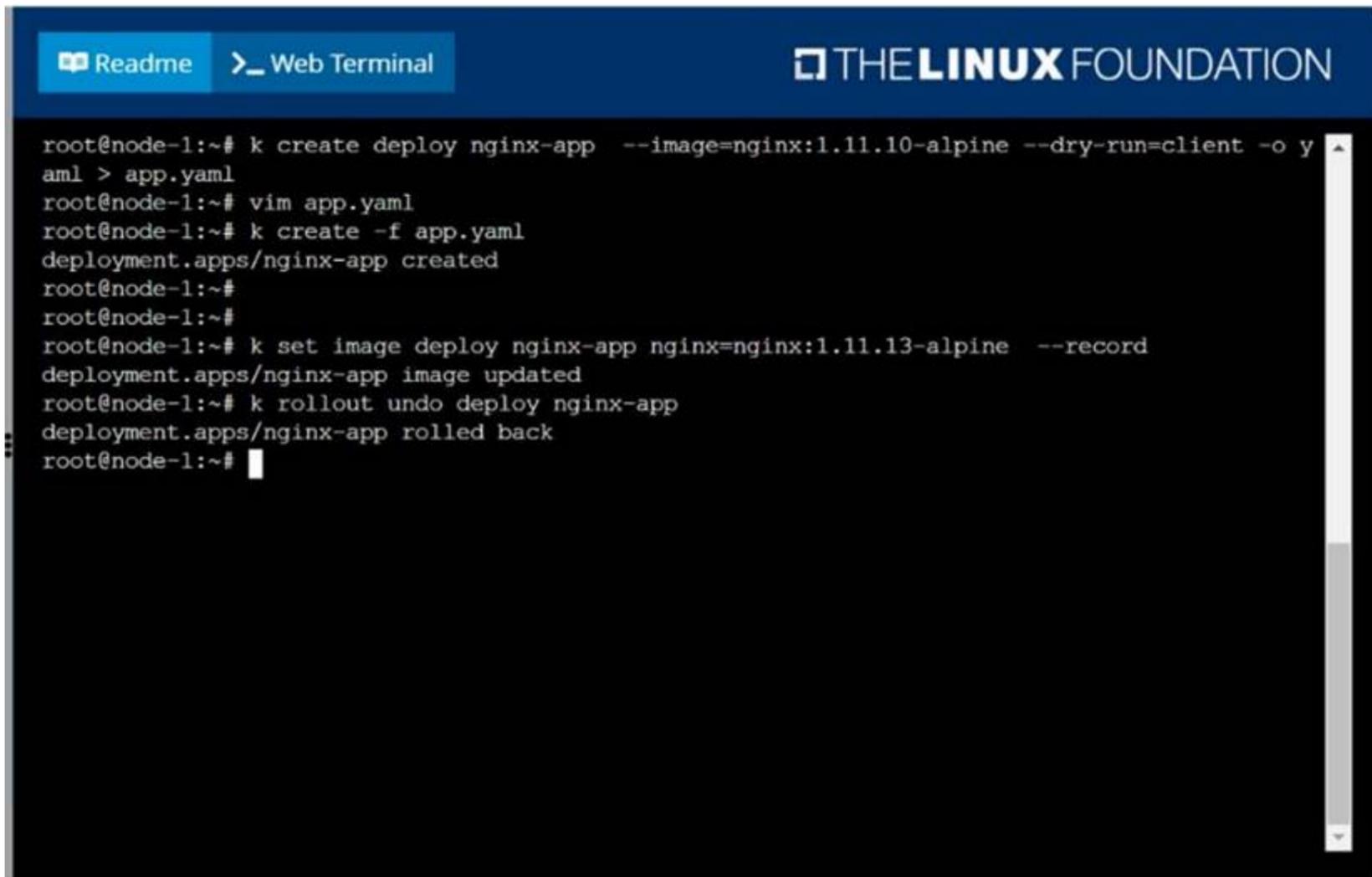
? The deployment should contain 3 replicas

Next, deploy the application with new version 1.11.13-alpine, by performing a rolling update.

Finally, rollback that update to the previous version 1.11.10-alpine.

- A. Mastered
- B. Not Mastered

Answer: A



```

Readme Web Terminal THE LINUX FOUNDATION
root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o y
aml > app.yaml
root@node-1:~# vim app.yaml
root@node-1:~# k create -f app.yaml
deployment.apps/nginx-app created
root@node-1:~#
root@node-1:~#
root@node-1:~# k set image deploy nginx-app nginx=nginx:1.11.13-alpine --record
deployment.apps/nginx-app image updated
root@node-1:~# k rollout undo deploy nginx-app
deployment.apps/nginx-app rolled back
root@node-1:~#

```

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NEW QUESTION 34

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.

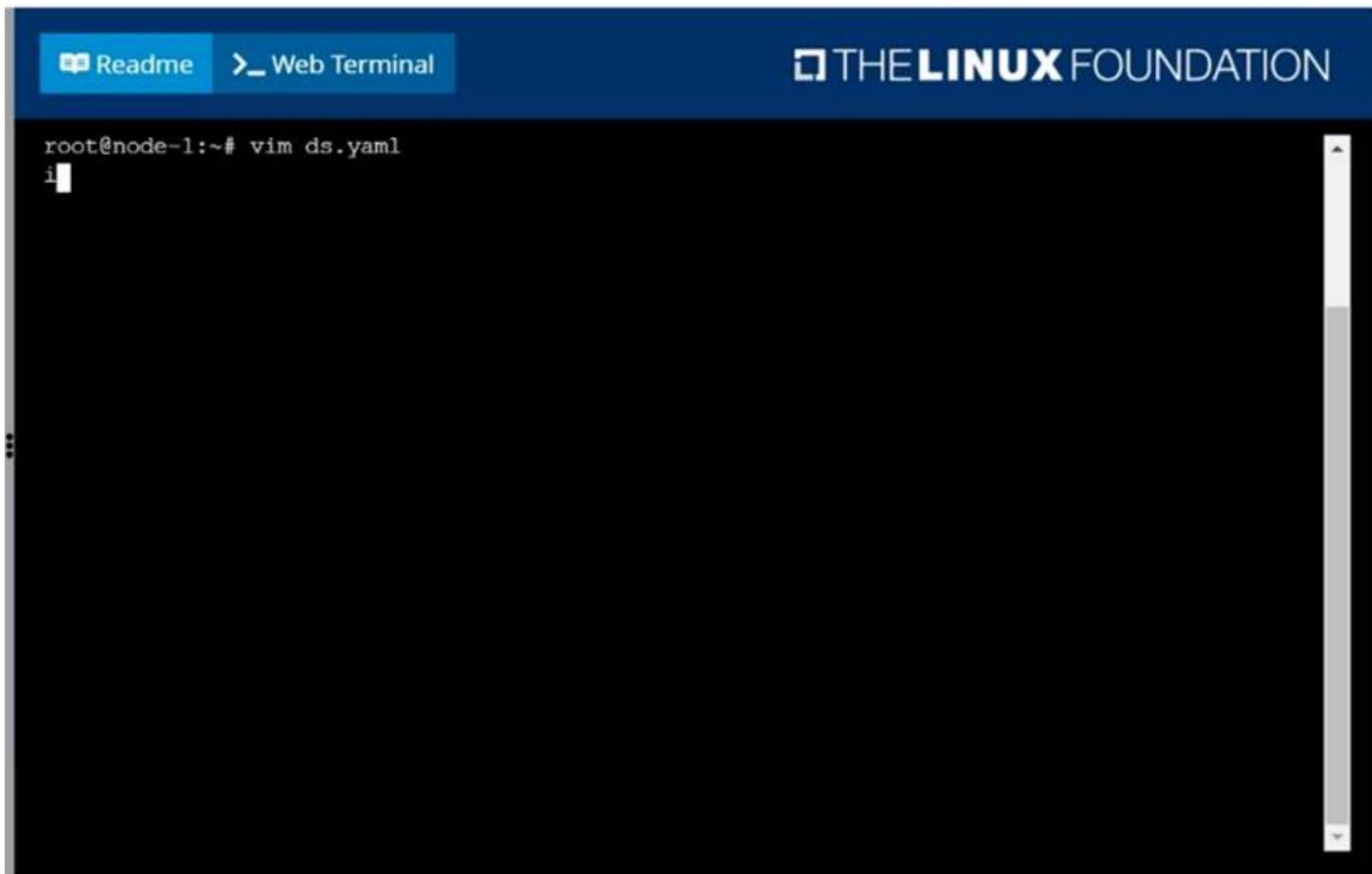
Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution



```

Readme Web Terminal THE LINUX FOUNDATION
root@node-1:~# vim ds.yaml
i

```

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Readme Web Terminal THE LINUX FOUNDATION

```

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 --
17,19 All

```

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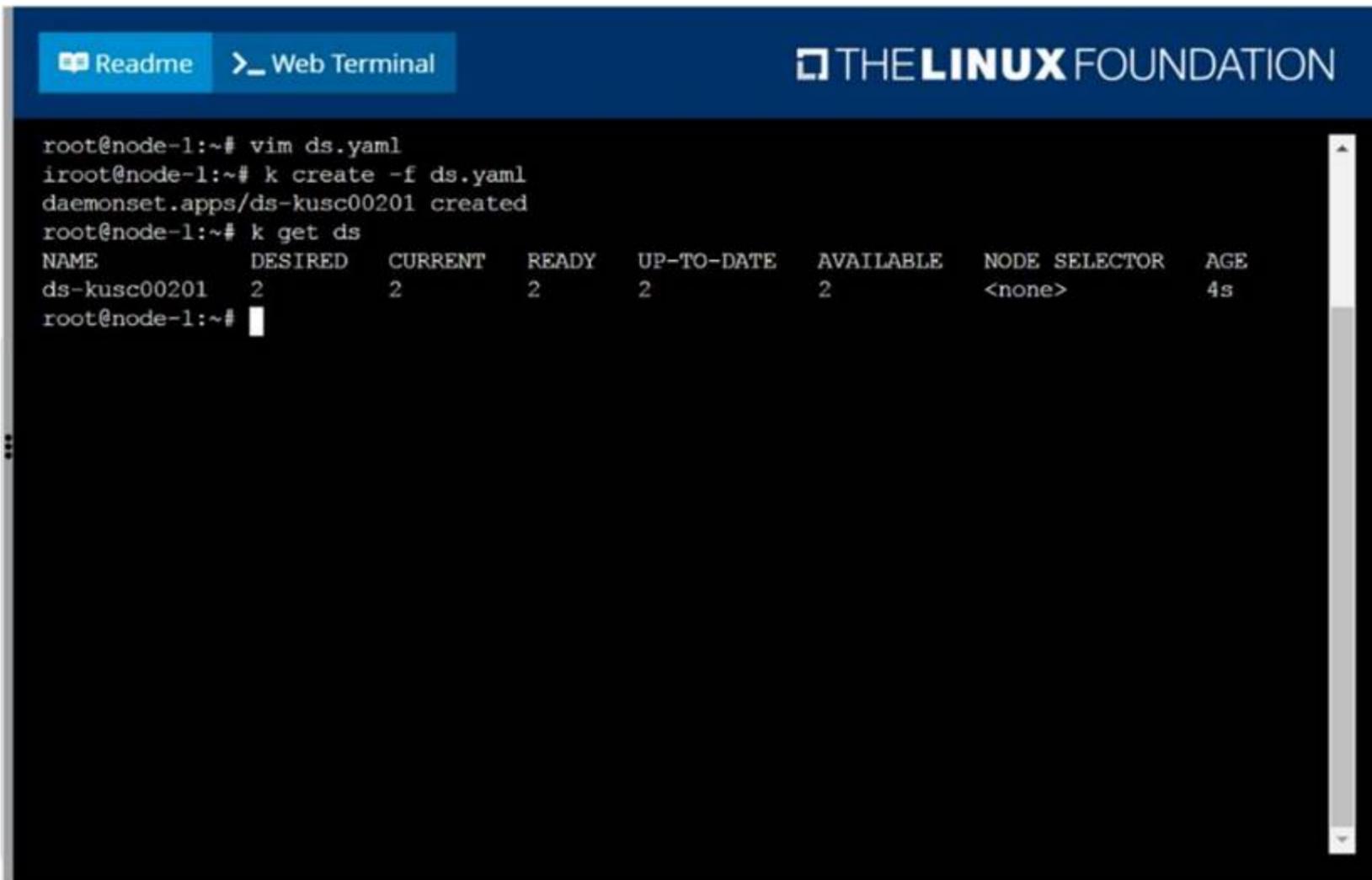
Readme Web Terminal THE LINUX FOUNDATION

```

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

```

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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 39

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:

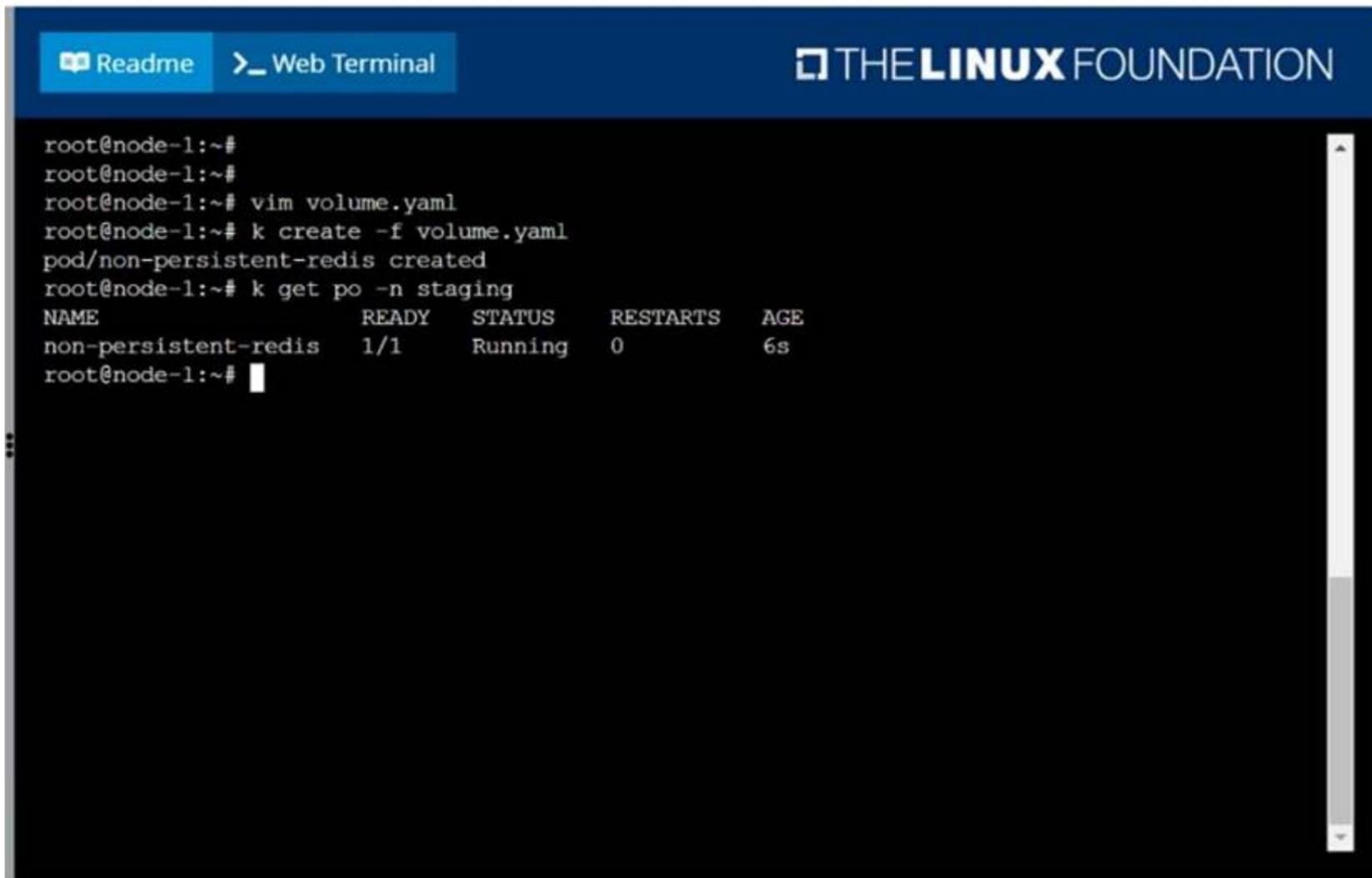
solution

```
Readme Web Terminal THE LINUX FOUNDATION
root@node-1:~#
root@node-1:~#
root@node-1:~# vim volume.yaml
```

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```
Readme Web Terminal THE LINUX FOUNDATION
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: {}
~
~
~
~
~
~
~
~
~
~
:w
```

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```

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 44

CORRECT TEXT

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

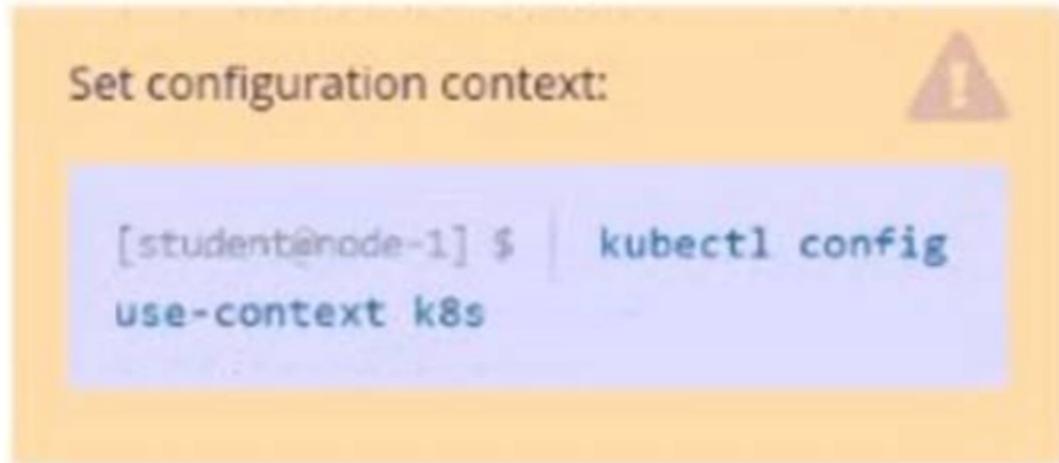
```

```
- image: memcached
name: memcached
- image: consul
name: consul
#
kubectl create -f kucc8.yaml
#12.07
```

NEW QUESTION 45

CORRECT TEXT

Task Weight: 4%



Task

Scale the deployment webserver to 3 pods.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
student@node-1:~$ kubectl scale deploy webserver --replicas=3
deployment.apps/webserver scaled
student@node-1:~$ kubectl scale deploy webserver --replicas=3
```

NEW QUESTION 47

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
```

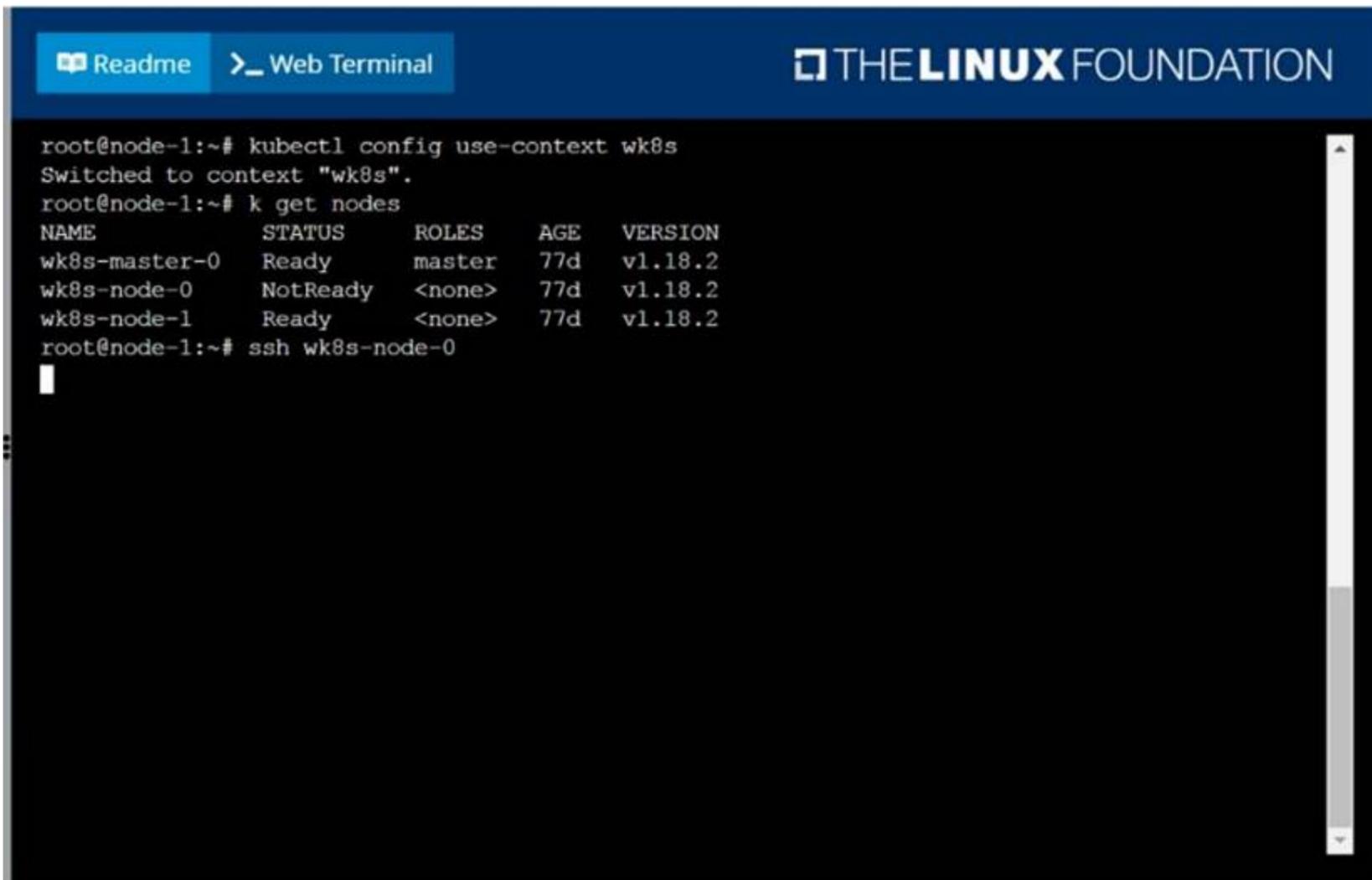
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

Explanation:
 solution

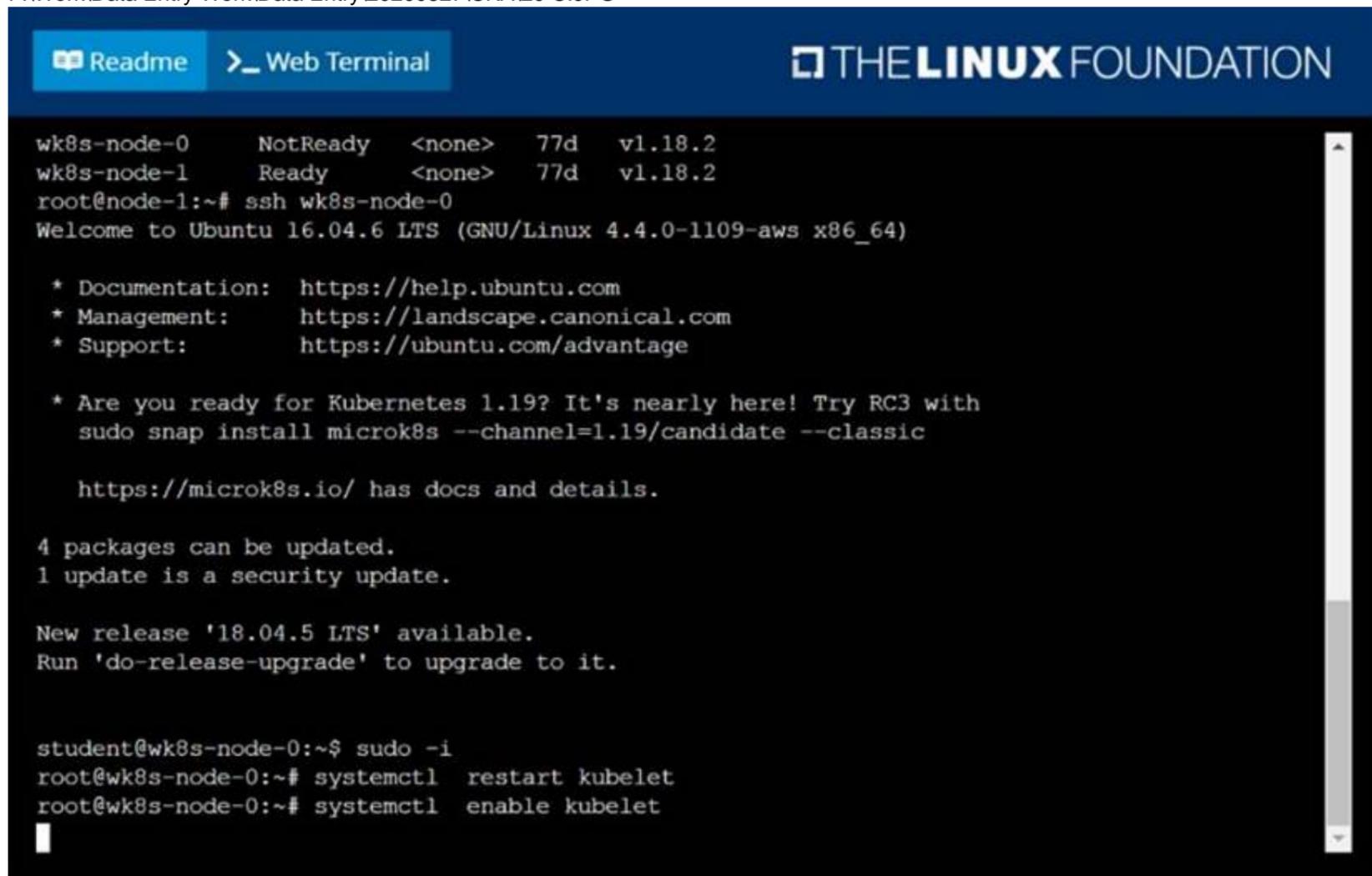


The screenshot shows a web terminal window with a dark background and a blue header. The header contains a 'Readme' button, a 'Web Terminal' button, and the 'THE LINUX FOUNDATION' logo. The terminal output shows the following commands and results:

```

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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The screenshot shows a web terminal window with a dark background and a blue header. The header contains a 'Readme' button, a 'Web Terminal' button, and the 'THE LINUX FOUNDATION' logo. The terminal output shows the following commands and results:

```

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/systemd/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:~# █

```

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NEW QUESTION 52

CORRECT TEXT

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 56

CORRECT TEXT

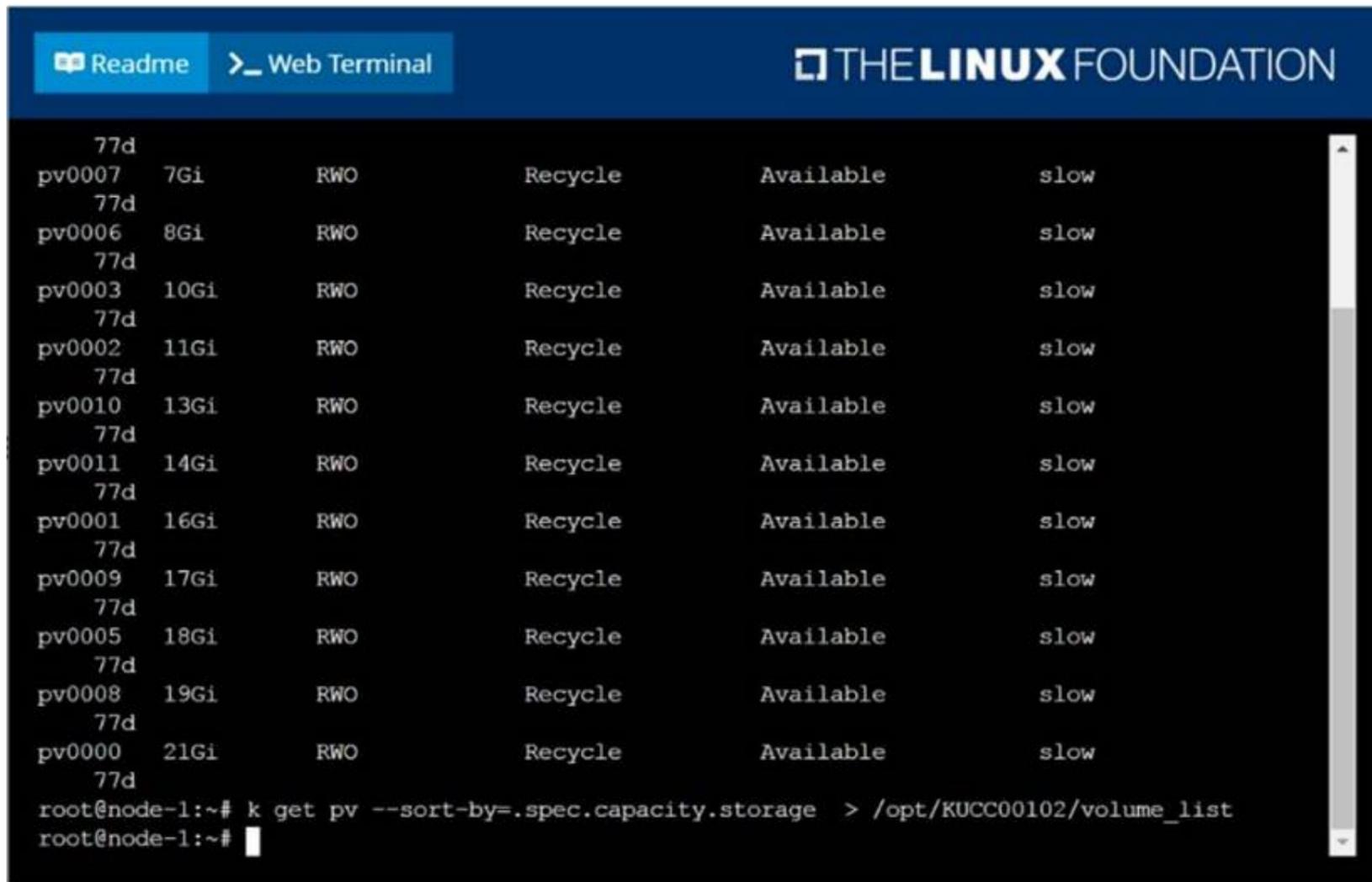
List all persistent volumes sorted by capacity, saving the full kubectl output to /opt/KUCC00102/volume_list. Use kubectl 's own functionality for sorting the output, and do not manipulate it any further.

- 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 60

CORRECT TEXT

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. PersistentVolumes 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 PersistentVolume provisioned in an easy way.
 Creating Persistent Volume
 kind: PersistentVolumeapiVersion: v1metadata: name:app-dataspec: 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 classname shared, 2Gi of storage capacity and the host path /srv/app-data.

NEW QUESTION 64

CORRECT TEXT

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 65

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 66

CORRECT TEXT

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 68

CORRECT TEXT

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 71

CORRECT TEXT

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 73

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