

Linux-Foundation

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program



NEW QUESTION 1

CORRECT TEXT

Create a pod with image nginx called nginx and allow traffic on port 80

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubectrl run nginx --image=nginx --restart=Never --port=80

NEW QUESTION 2

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

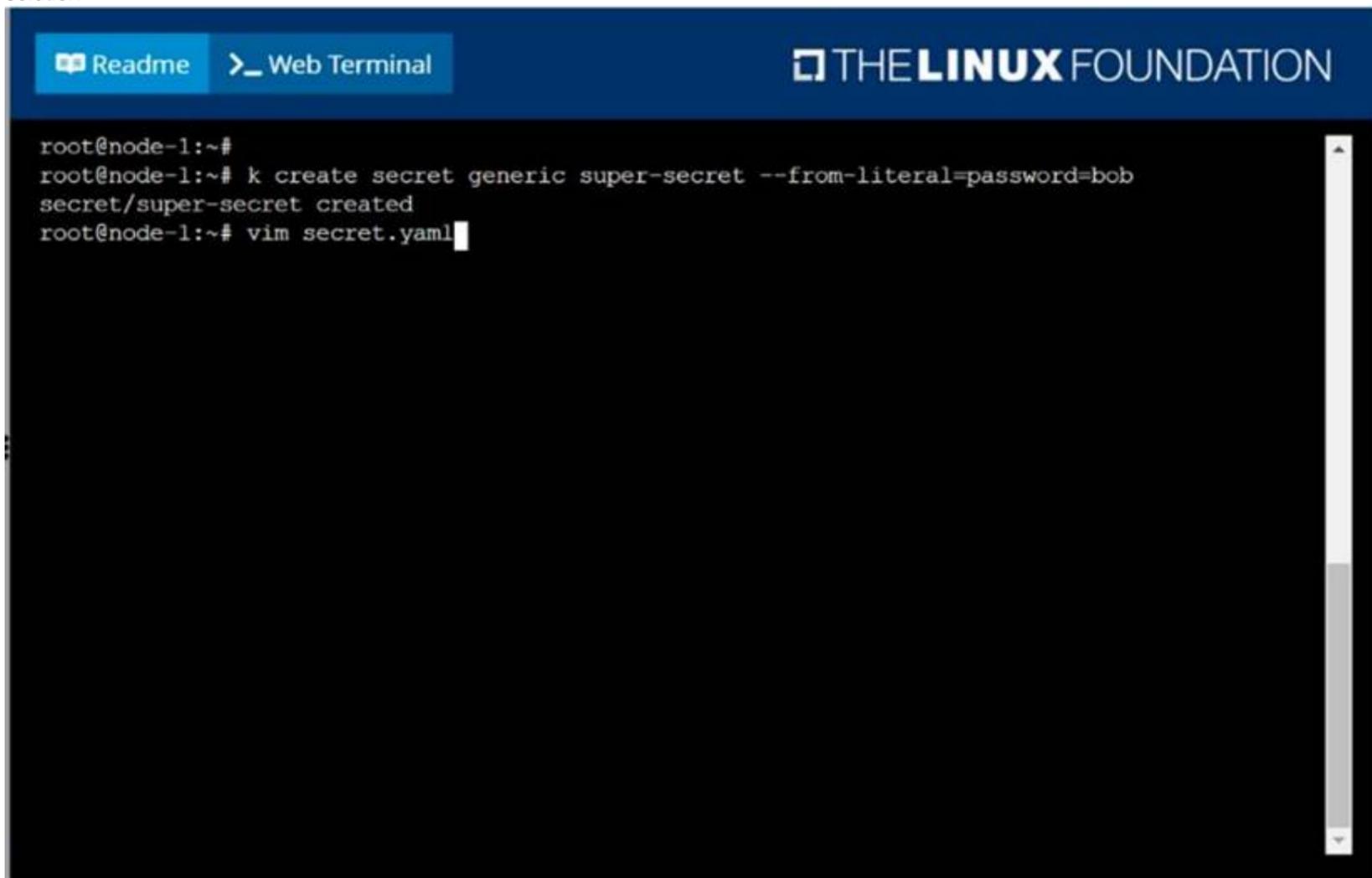
password as CONFIDENTIAL

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution



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```

Readme Web Terminal THE LINUX FOUNDATION

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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```

Readme Web Terminal THE LINUX FOUNDATION

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 3

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 4

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 5

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
#
kubectl create -f node-select.yaml
```

NEW QUESTION 6

CORRECT TEXT

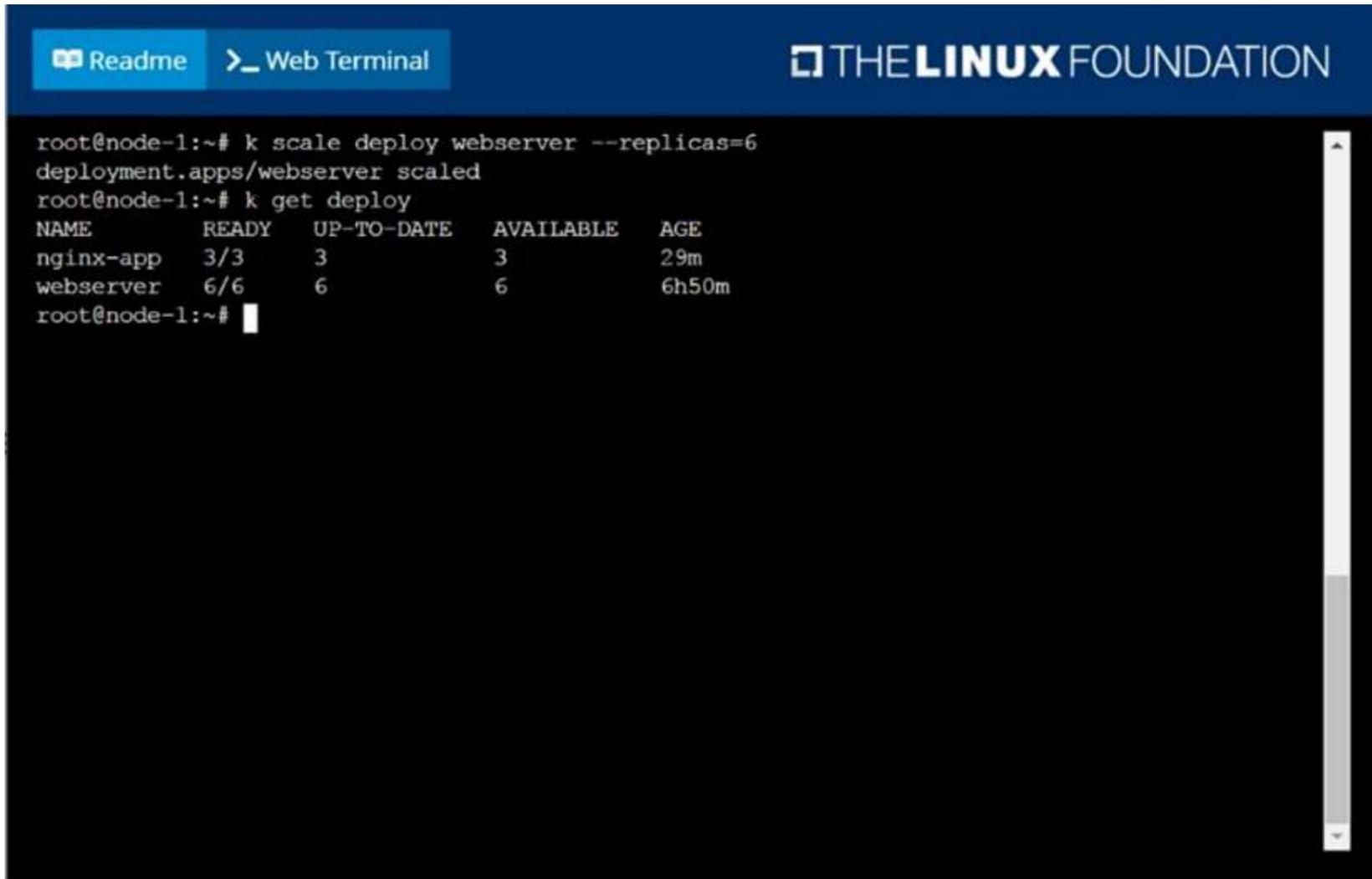
Scale the deployment webserver to 6 pods.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution



```

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:~#

```

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NEW QUESTION 7

CORRECT TEXT

Monitor the logs of pod foo and:

? Extract log lines corresponding to error

unable-to-access-website

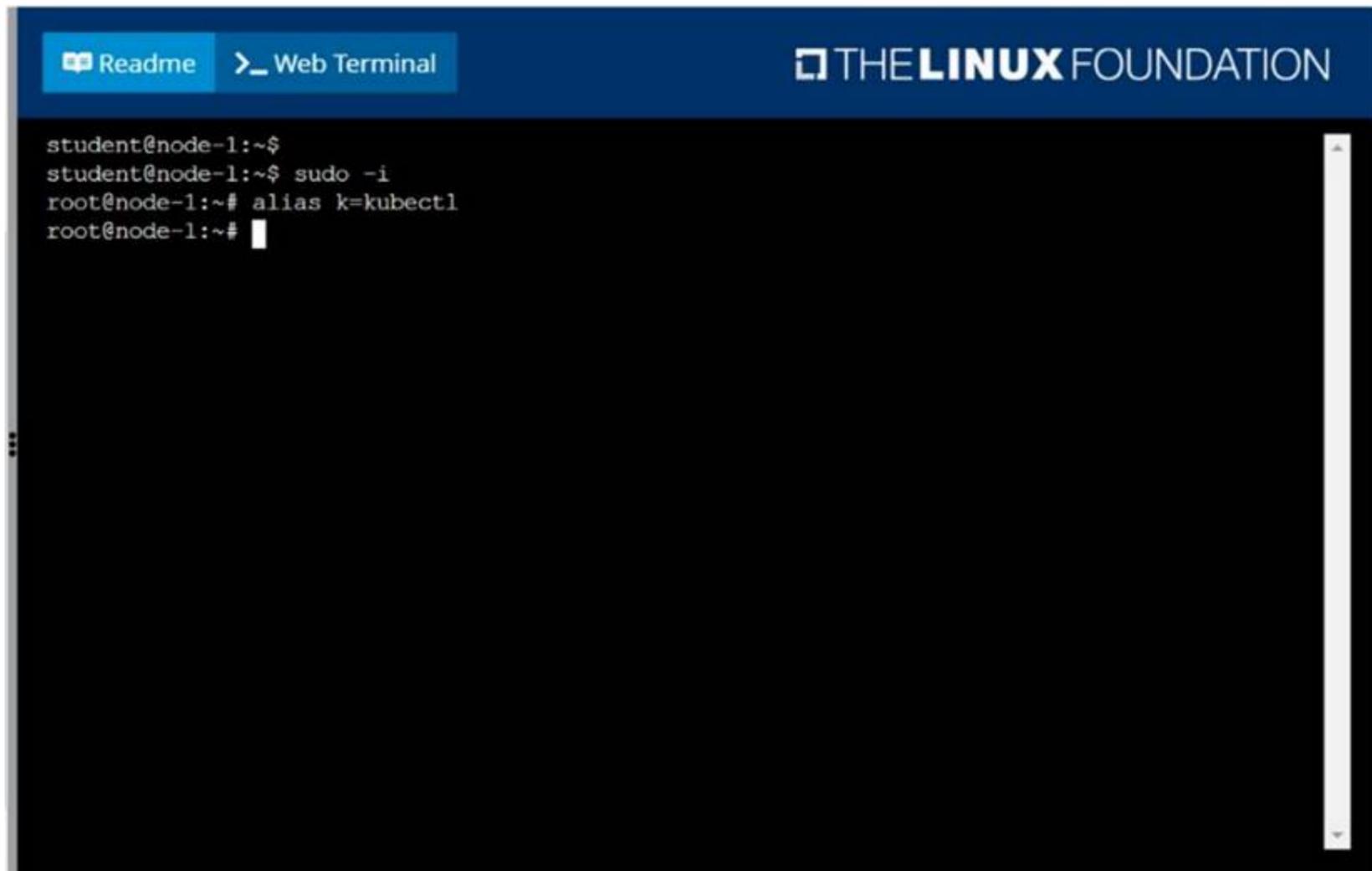
? Write them to /opt/KULM00201/foo

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

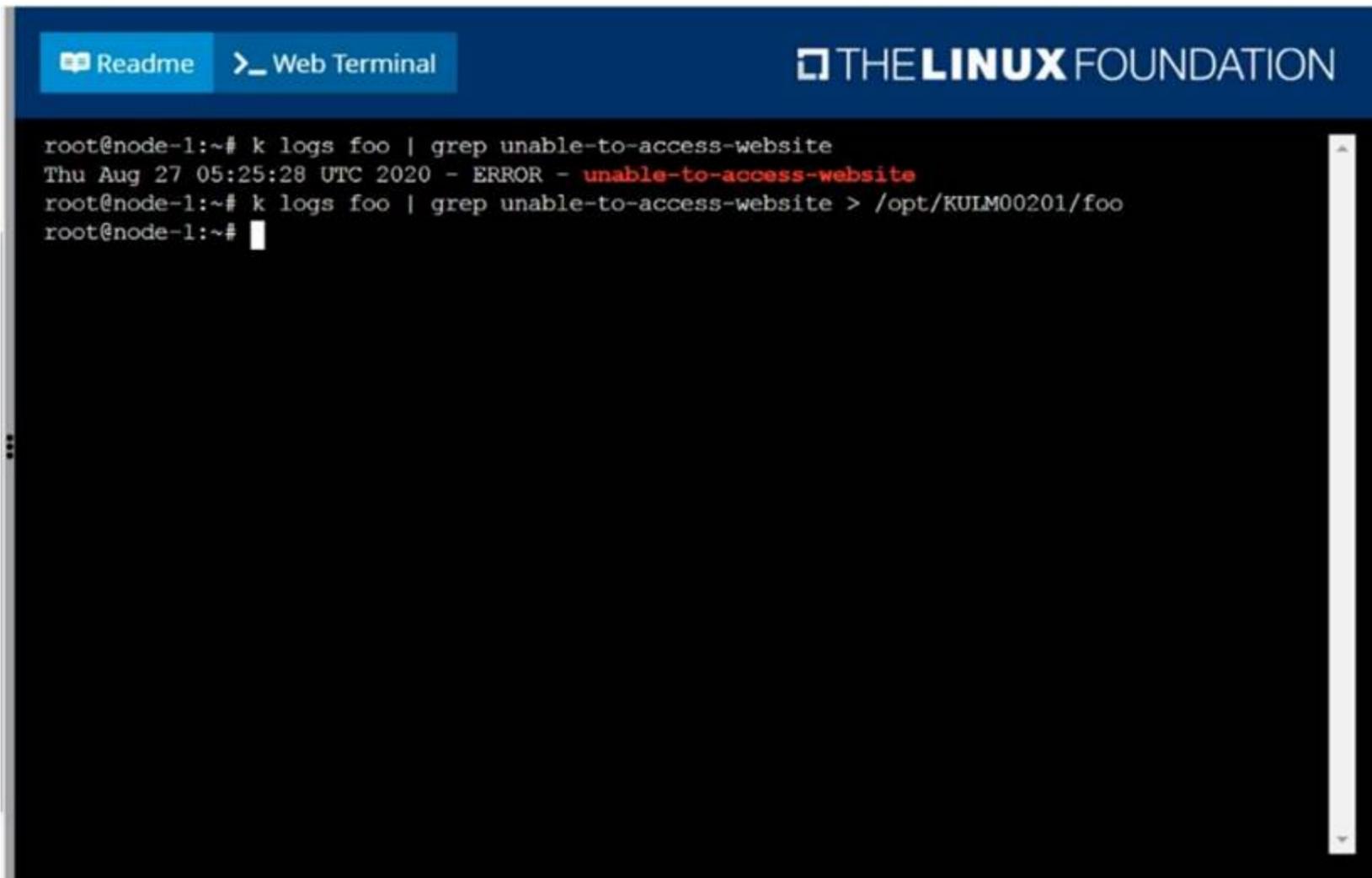


```

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 8

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`

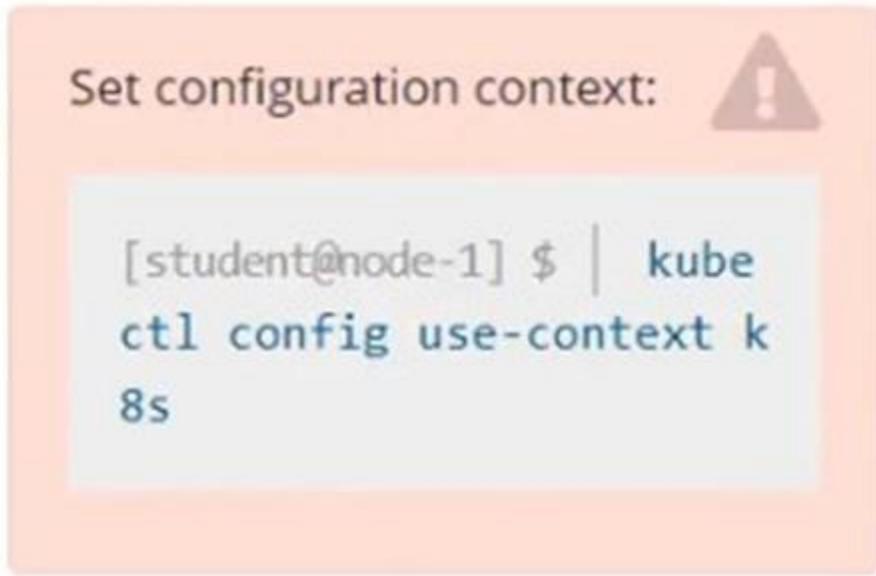
`ETCDCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" --`

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

NEW QUESTION 9

CORRECT TEXT

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 10
 CORRECT TEXT

Check the Image version of nginx-dev pod using jsonpath

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
kubect1 get po nginx-dev -o
jsonpath='{.spec.containers[].image}'{"\n"}
```

NEW QUESTION 10

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:

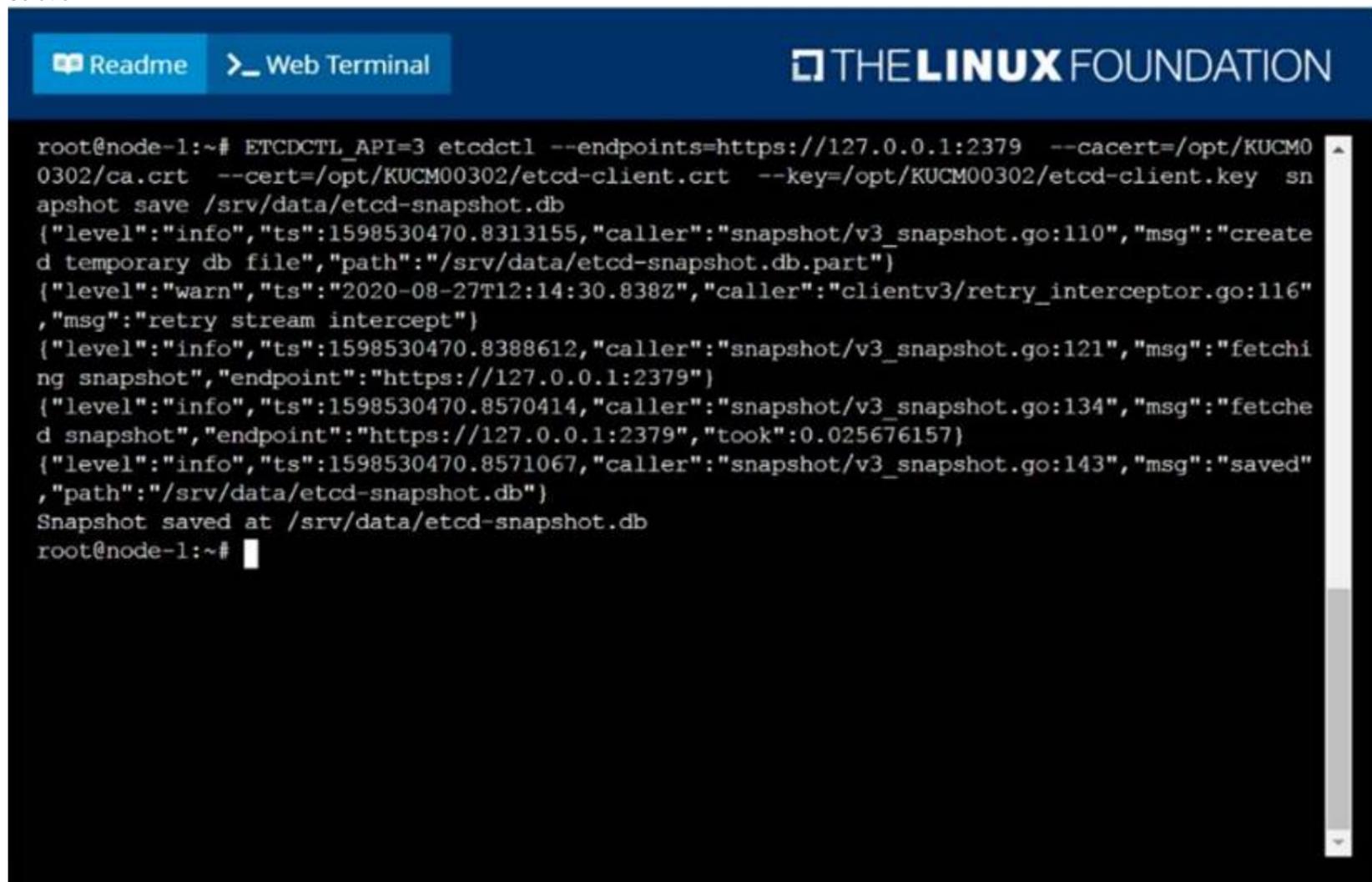
- ? CA certificate: /opt/KUCM00302/ca.crt
- ? Client certificate: /opt/KUCM00302/etcd-client.crt
- ? Client key: /opt/KUCM00302/etcd-client.key

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution



The screenshot shows a terminal window with the following content:

```

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 d 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 15

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):

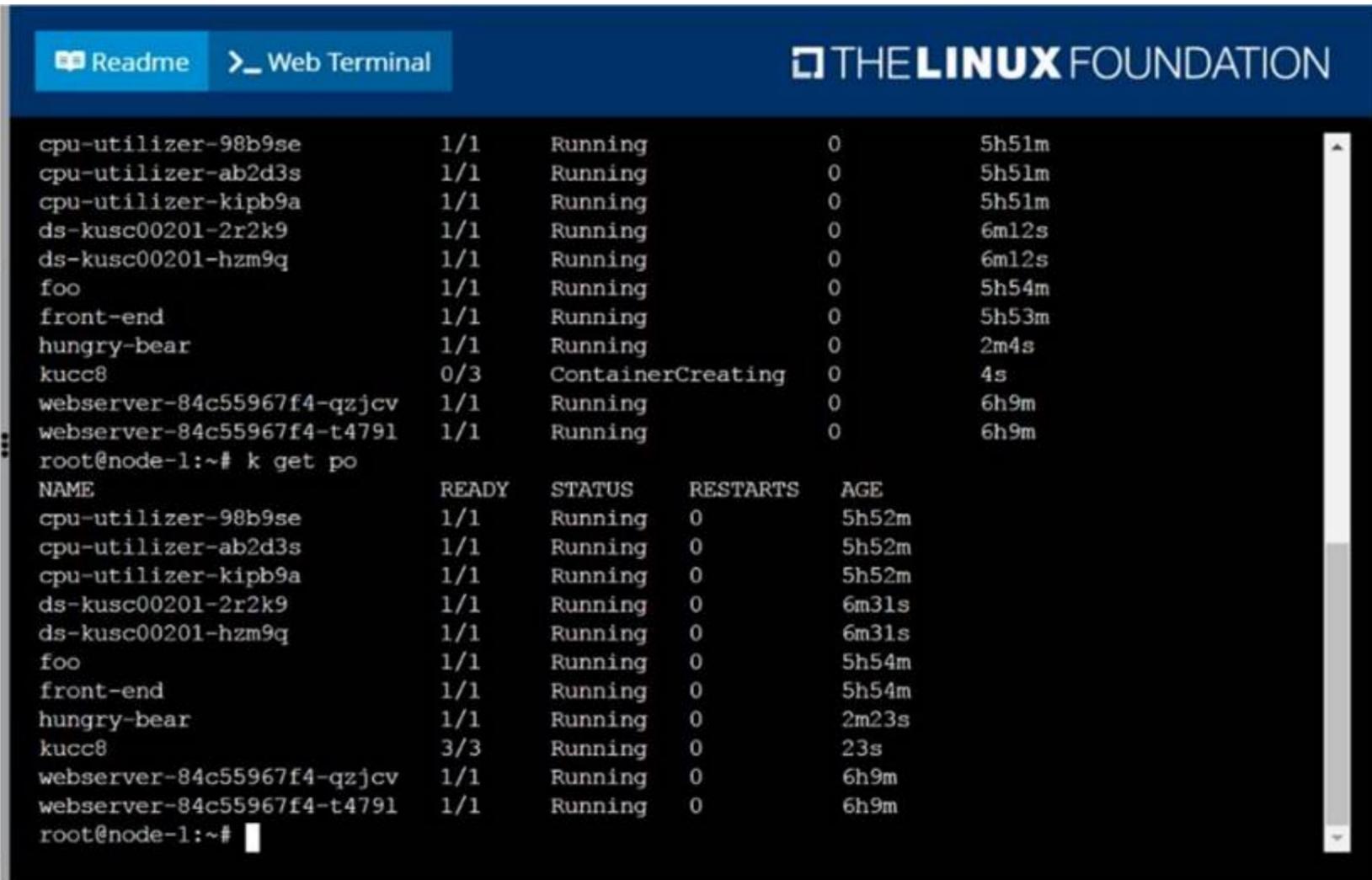
nginx + redis + memcached.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution



The screenshot shows a terminal window with the following output:

```

cpu-utilizer-98b9se      1/1      Running      0          5h51m
cpu-utilizer-ab2d3s     1/1      Running      0          5h51m
cpu-utilizer-kipb9a    1/1      Running      0          5h51m
ds-kusc00201-2r2k9     1/1      Running      0          6m12s
ds-kusc00201-hzm9q     1/1      Running      0          6m12s
foo                     1/1      Running      0          5h54m
front-end               1/1      Running      0          5h53m
hungry-bear             1/1      Running      0          2m4s
kucc8                   0/3      ContainerCreating 0          4s
webserver-84c55967f4-qzjcv 1/1      Running      0          6h9m
webserver-84c55967f4-t4791 1/1      Running      0          6h9m
root@node-1:~# k get po
NAME                READY   STATUS    RESTARTS   AGE
cpu-utilizer-98b9se 1/1     Running   0           5h52m
cpu-utilizer-ab2d3s 1/1     Running   0           5h52m
cpu-utilizer-kipb9a 1/1     Running   0           5h52m
ds-kusc00201-2r2k9 1/1     Running   0           6m31s
ds-kusc00201-hzm9q 1/1     Running   0           6m31s
foo                 1/1     Running   0           5h54m
front-end           1/1     Running   0           5h54m
hungry-bear        1/1     Running   0           2m23s
kucc8               3/3     Running   0           23s
webserver-84c55967f4-qzjcv 1/1     Running   0           6h9m
webserver-84c55967f4-t4791 1/1     Running   0           6h9m
root@node-1:~#

```

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NEW QUESTION 18

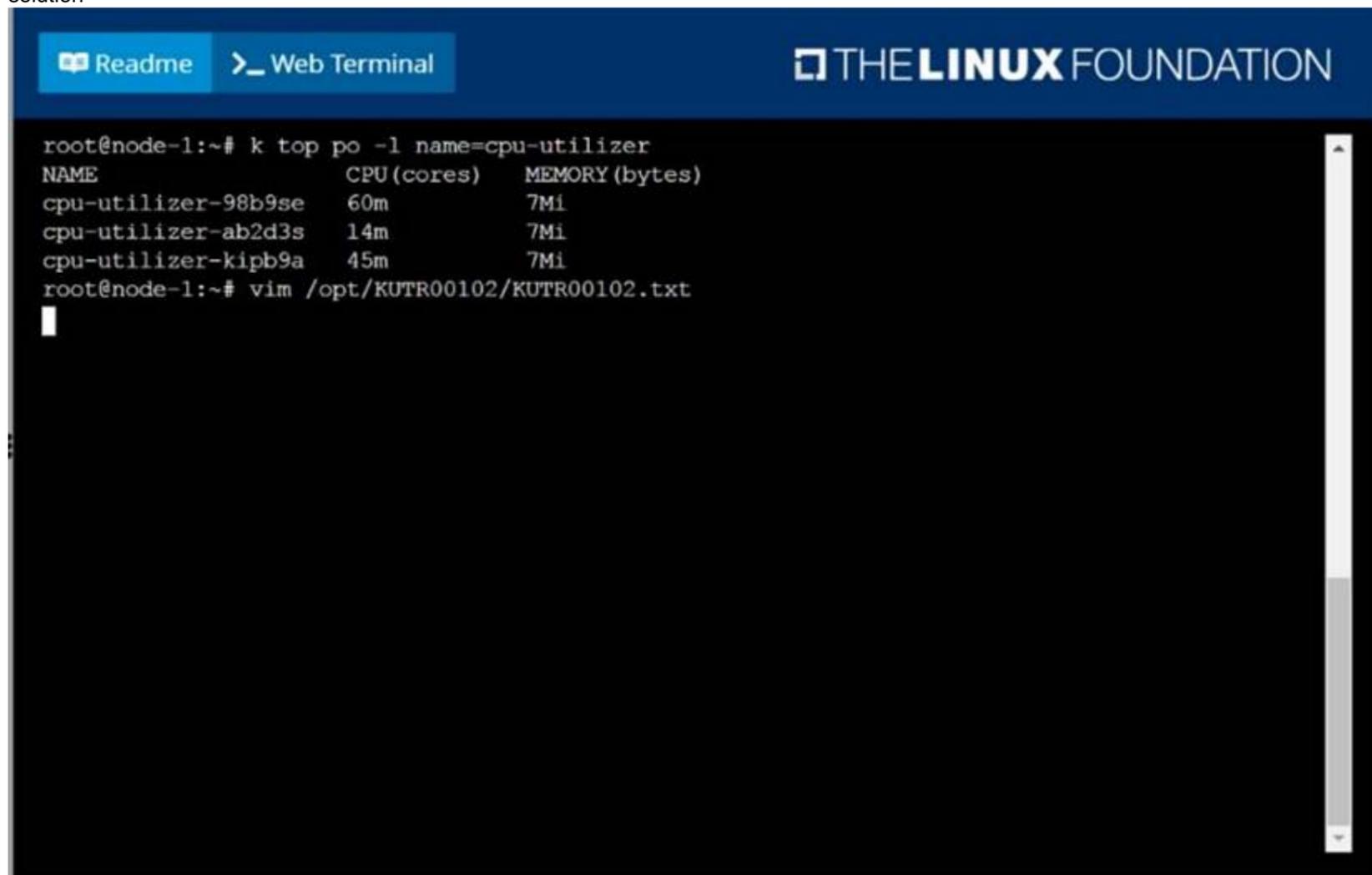
CORRECT TEXT

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/KUTR00102/KUTR00102.txt (which already exists).

A.

Answer: Seethesolutionbelow.

Explanation:
solution



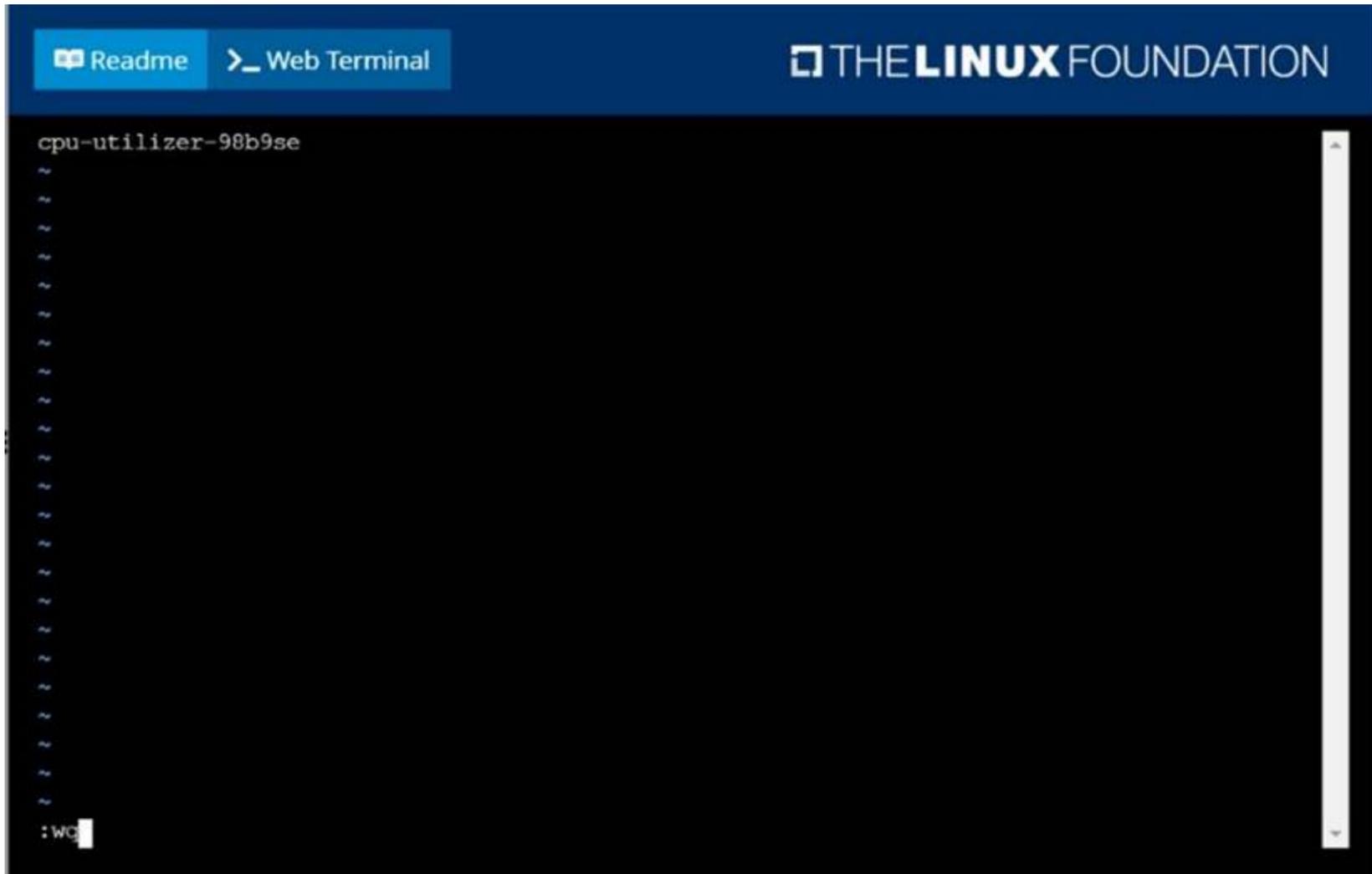
The screenshot shows a terminal window with the following output:

```

root@node-1:~# k top po -l name=cpu-utilizer
NAME                CPU (cores)  MEMORY (bytes)
cpu-utilizer-98b9se 60m          7Mi
cpu-utilizer-ab2d3s 14m          7Mi
cpu-utilizer-kipb9a 45m          7Mi
root@node-1:~# vim /opt/KUTR00102/KUTR00102.txt

```

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NEW QUESTION 19

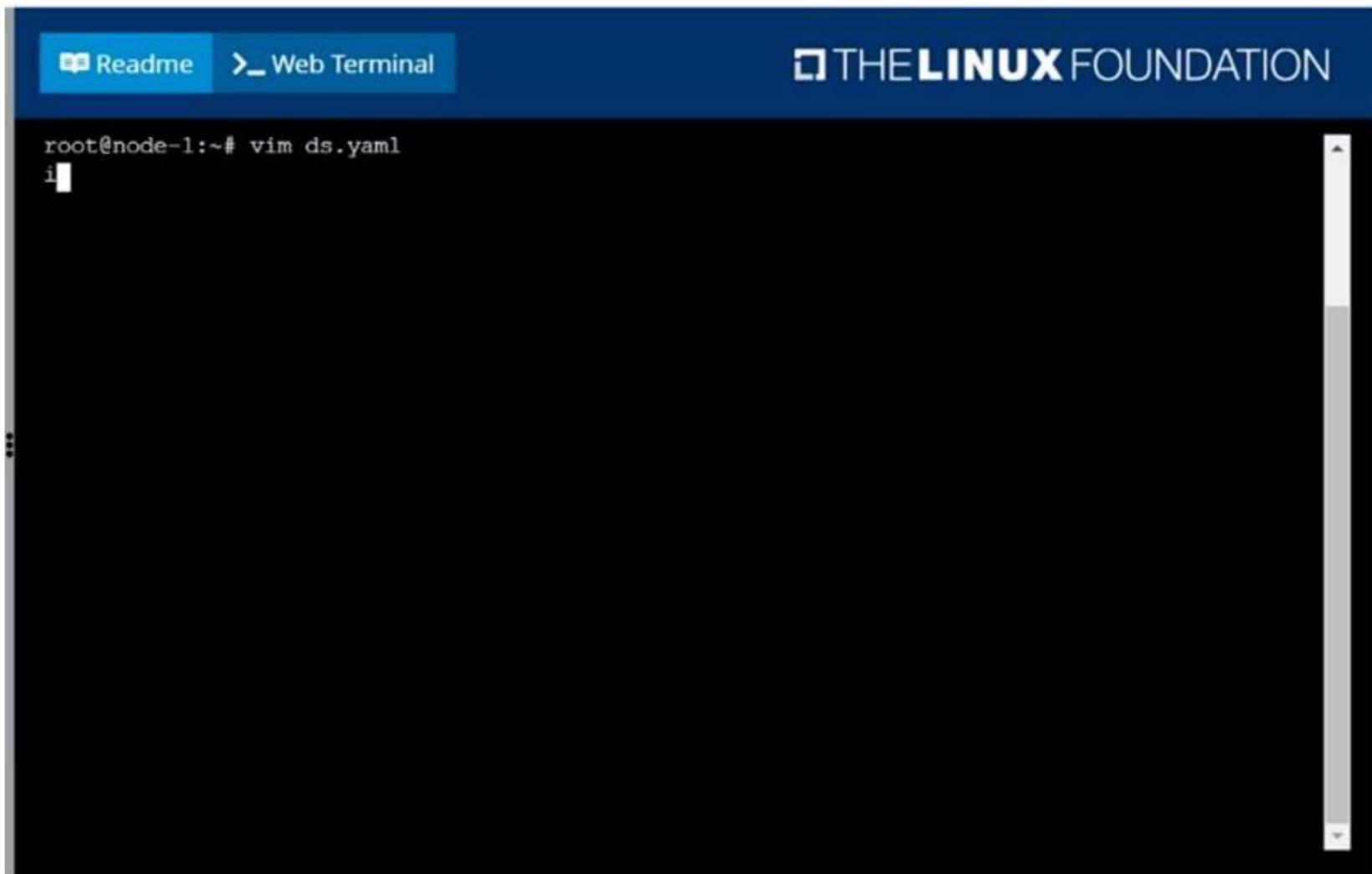
CORRECT TEXT

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.

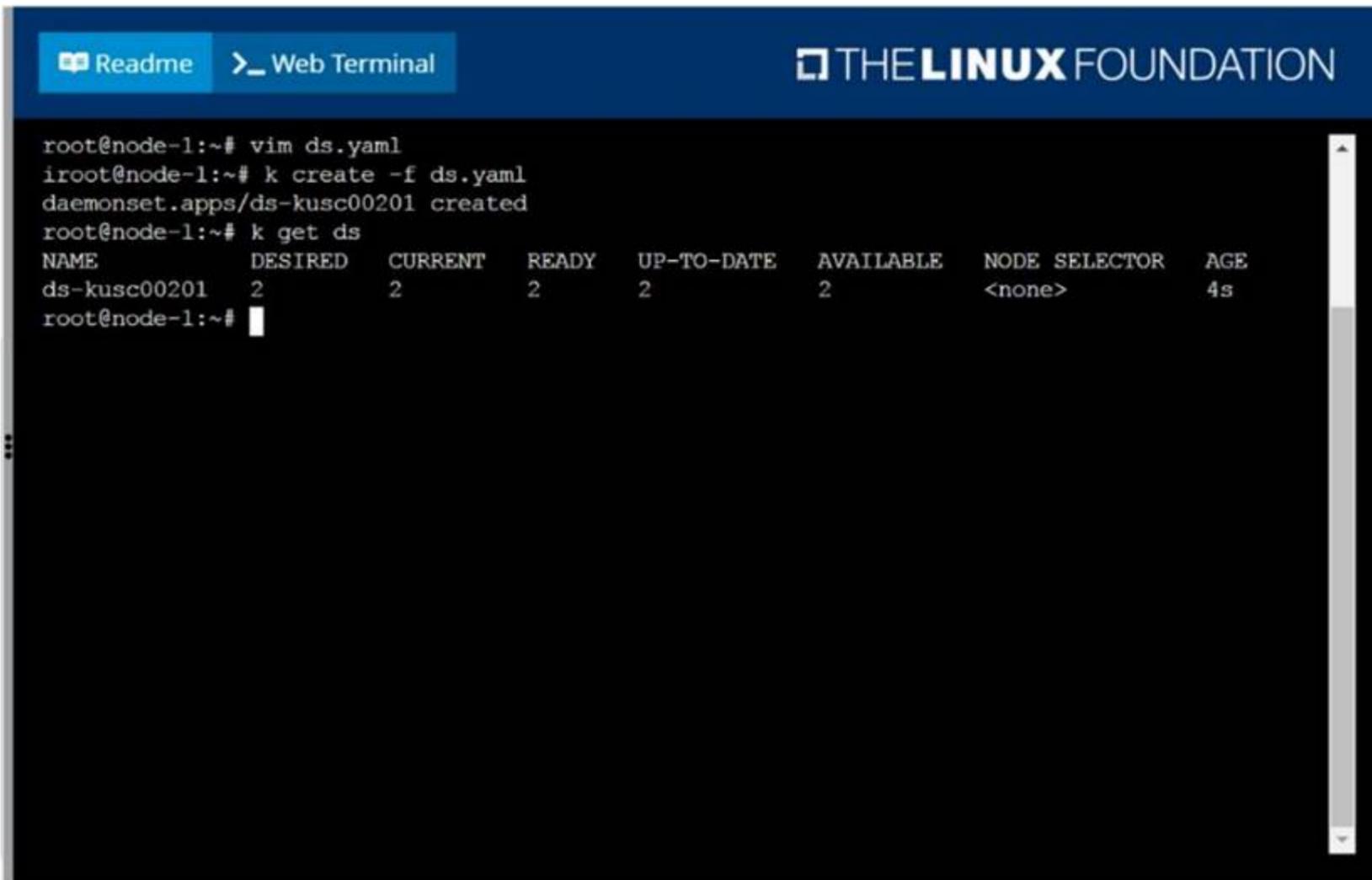
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
 solution



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```

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:~#

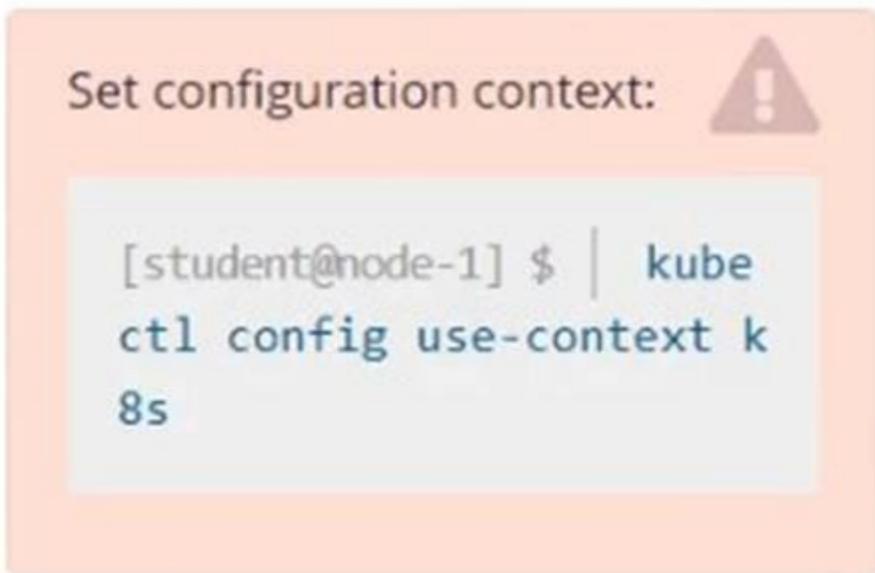
```

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NEW QUESTION 24

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

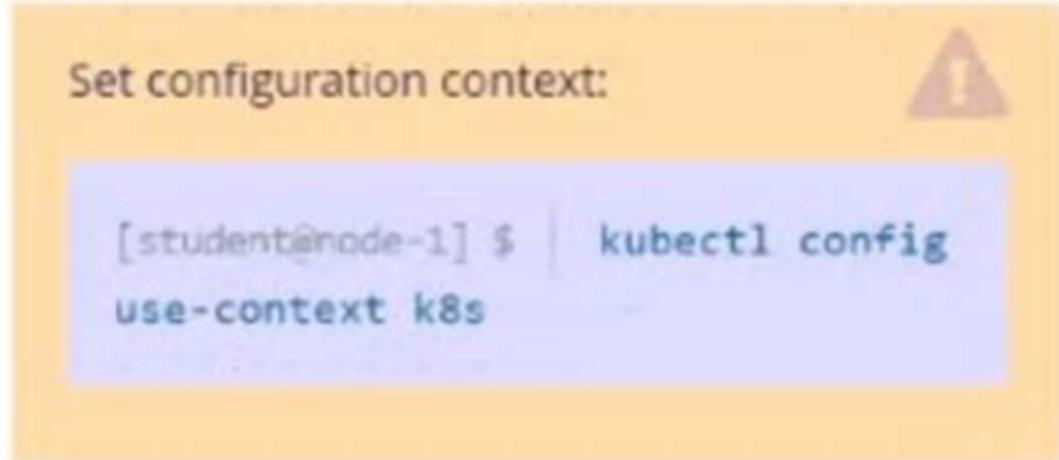
```

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

NEW QUESTION 28

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 32

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 36

CORRECT TEXT

List all the pods showing name and namespace with a json path expression

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 40

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

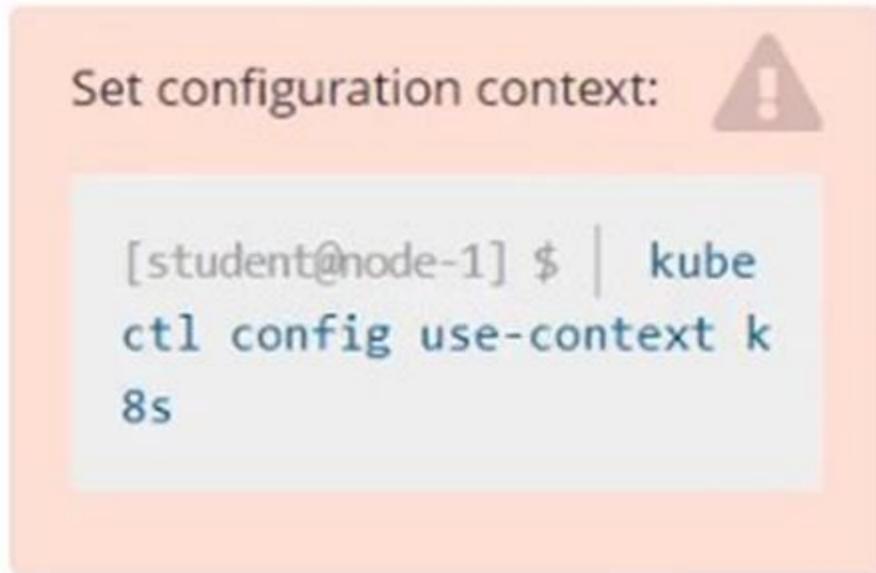
Explanation:

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

NEW QUESTION 42

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 46

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 49

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