



# 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

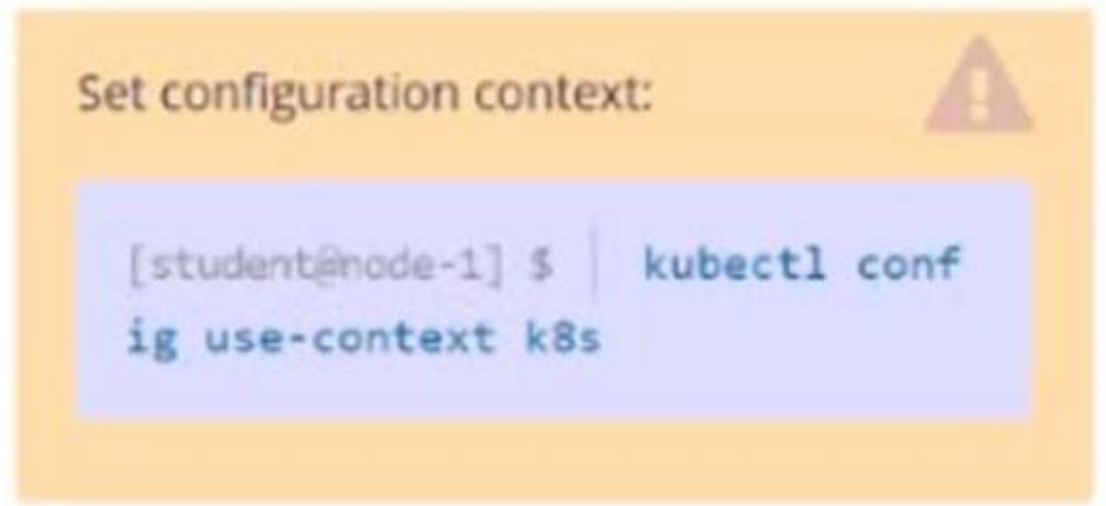
Explanation:

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

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

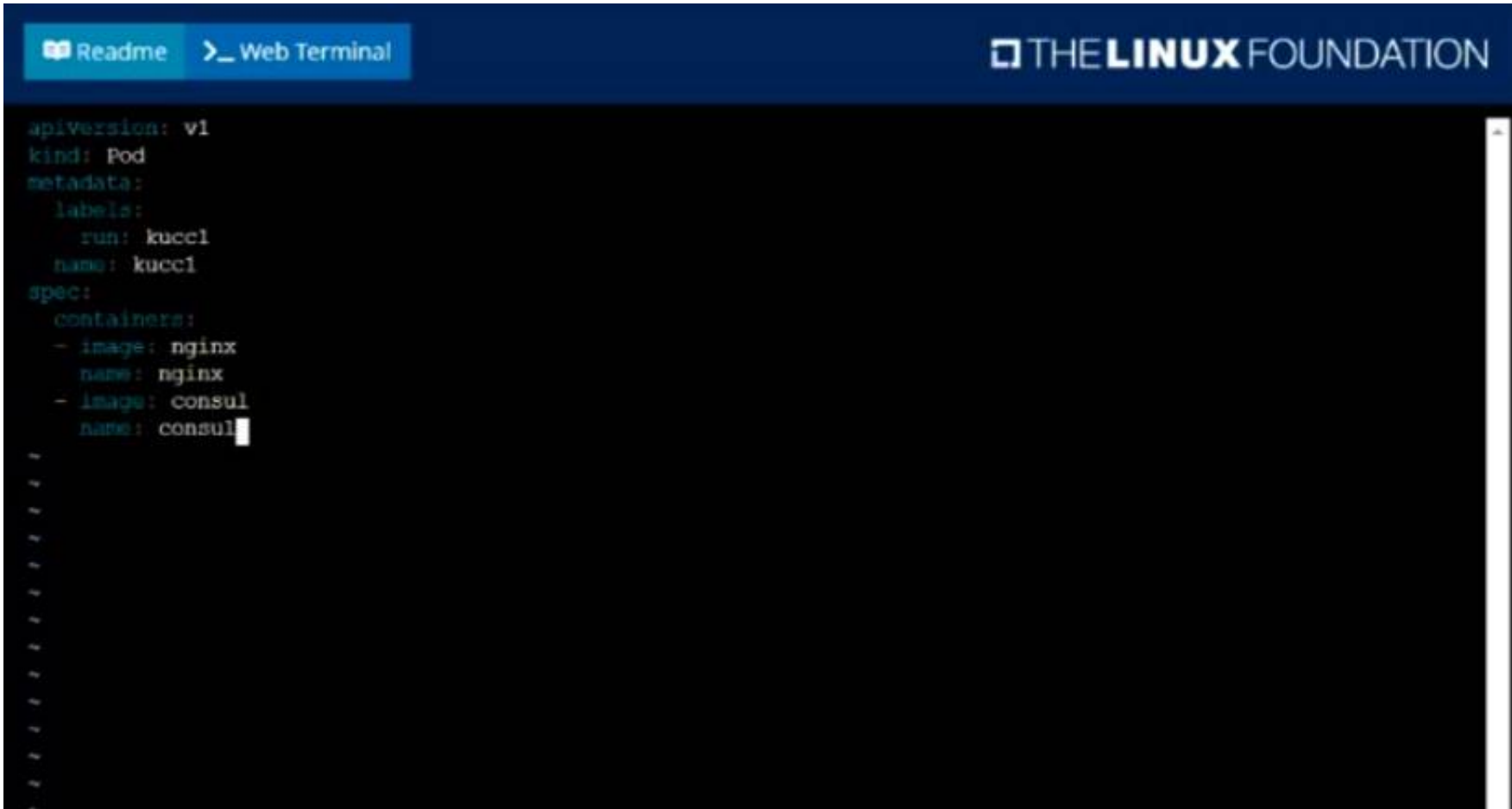
- A. Mastered
- B. Not Mastered

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

Create a namespace called 'development' and a pod with image nginx called nginx on this namespace.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubectl create namespace development  
kubectl run nginx --image=nginx --restart=Never -n development

NEW QUESTION 4

CORRECT TEXT

Create a Kubernetes secret as follows:

- ? Name: super-secret
- ? password: bob

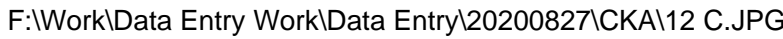
Create a pod named pod-secrets-via-file, using the redis Image, which mounts a secret named super-secret at /secrets.  
Create a second pod named pod-secrets-via-env, using the redis Image, which exports password as CONFIDENTIAL

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution



ReadmeWeb Terminal

THELINUXFOUNDATION

```
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-t479l          1/1     Running   0           6h43m
root@node-1:~#
```

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NEW QUESTION 5

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 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.

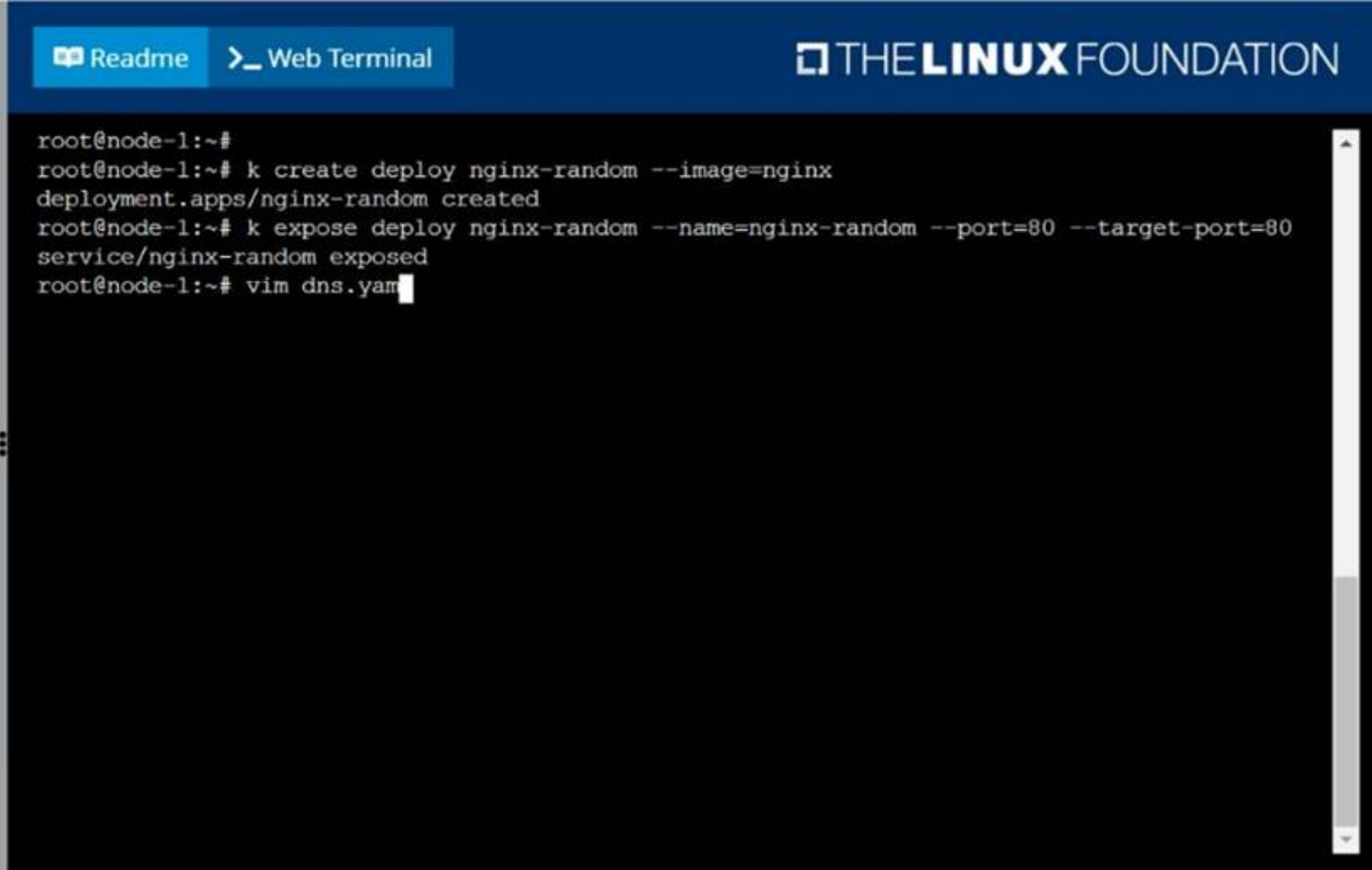
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

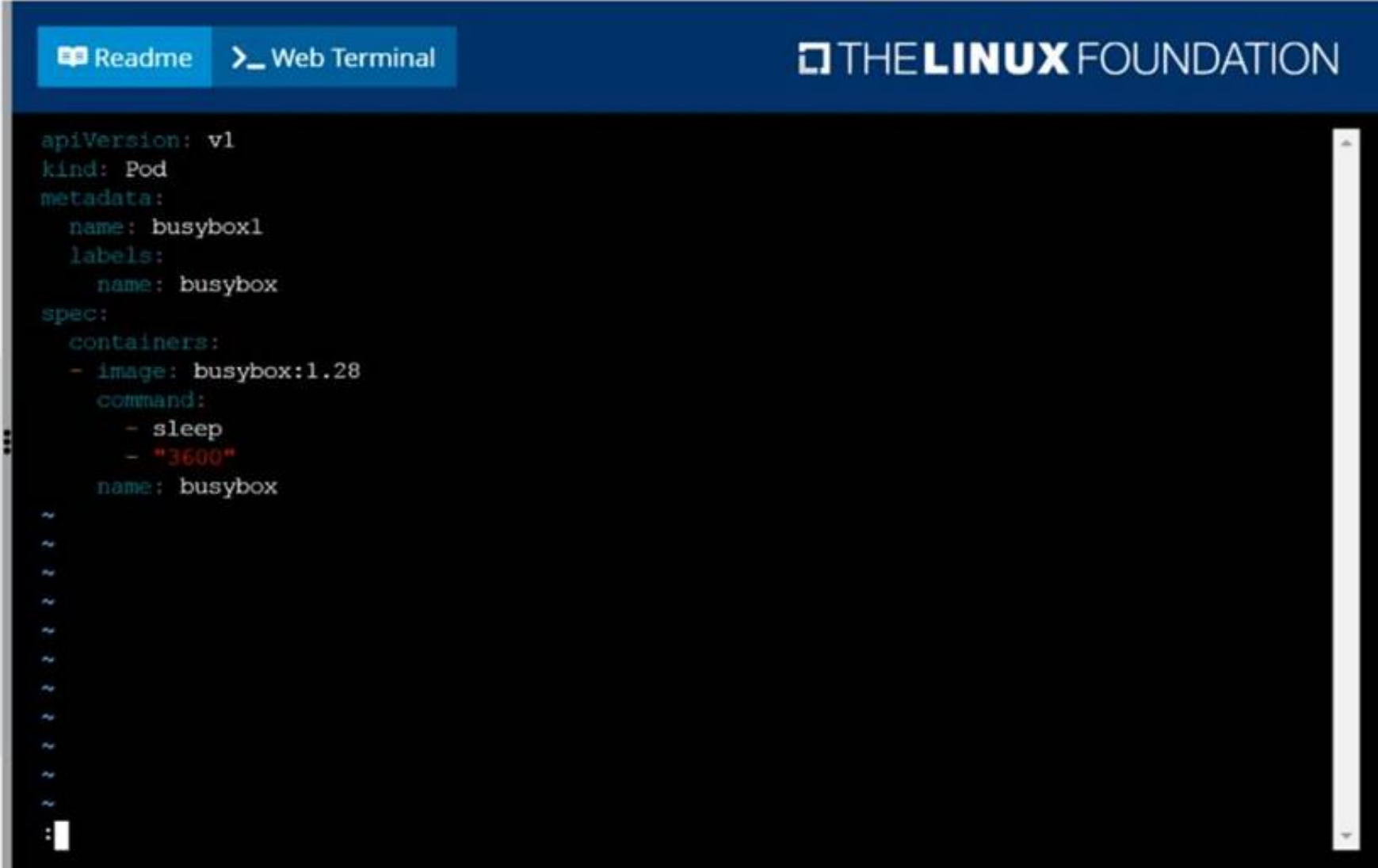
Solution:





```
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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```
apiVersion: v1  
kind: Pod  
metadata:  
  name: busybox1  
  labels:  
    name: busybox  
spec:  
  containers:  
  - image: busybox:1.28  
    command:  
      - sleep  
      - "3600"  
    name: busybox
```

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```
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
root@node-1:~# k create -f dns.yaml
pod/busybox1 created
root@node-1:~# k get po -o wide | grep nginx-random
nginx-random-6d5766bbdc-ptzv2    1/1      Running    0           103s      10.244.2.16   k8s-node-1
   <none>                        <none>
root@node-1:~# k exec -it busybox1 -- nslookup nginx-random
Server:      10.96.0.10
Address 1: 10.96.0.10 kube-dns.kube-system.svc.cluster.local

Name:      nginx-random
Address 1: 10.111.37.132 nginx-random.default.svc.cluster.local
root@node-1:~# k exec -it busybox1 -- nslookup nginx-random > /opt/KUNW00601/service.dns
root@node-1:~# k exec -it busybox1 -- nslookup 10-244-2-16.default.pod
Server:      10.96.0.10
Address 1: 10.96.0.10 kube-dns.kube-system.svc.cluster.local

Name:      10-244-2-16.default.pod
Address 1: 10.244.2.16 10-244-2-16.nginx-random.default.svc.cluster.local
root@node-1:~# k exec -it busybox1 -- nslookup 10-244-2-16.default.pod > /opt/KUNW00601/pod.dns
```

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**NEW QUESTION 7****CORRECT TEXT**

Create a deployment spec file that will:

? Launch 7 replicas of the nginx Image with the labelapp\_runtime\_stage=dev

? deployment name: kual00201

Save a copy of this spec file to /opt/KUAL00201/spec\_deployment.yaml

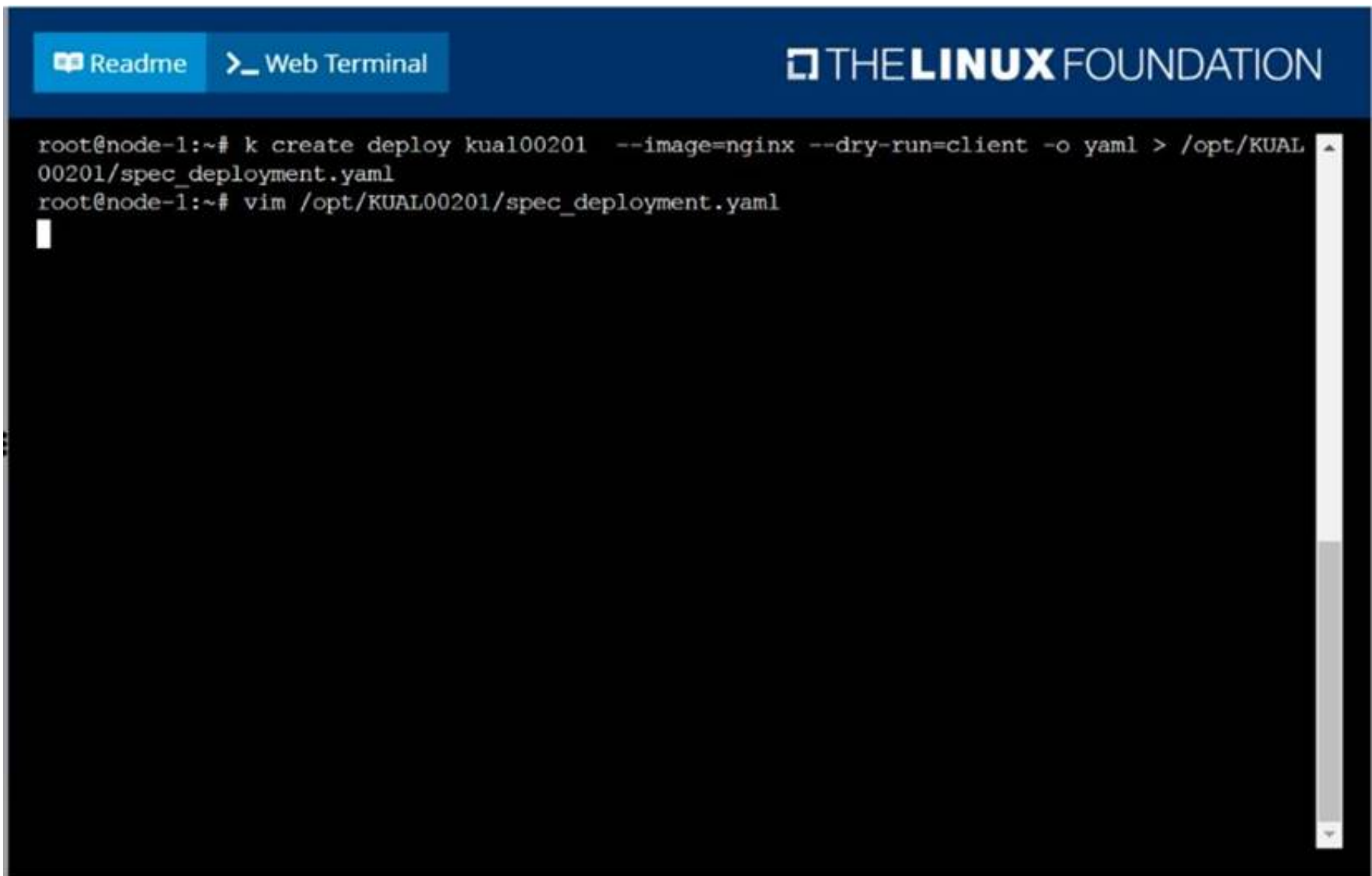
(or /opt/KUAL00201/spec\_deployment.json).

When you are done, clean up (delete) any new Kubernetes API object that you produced during this task.

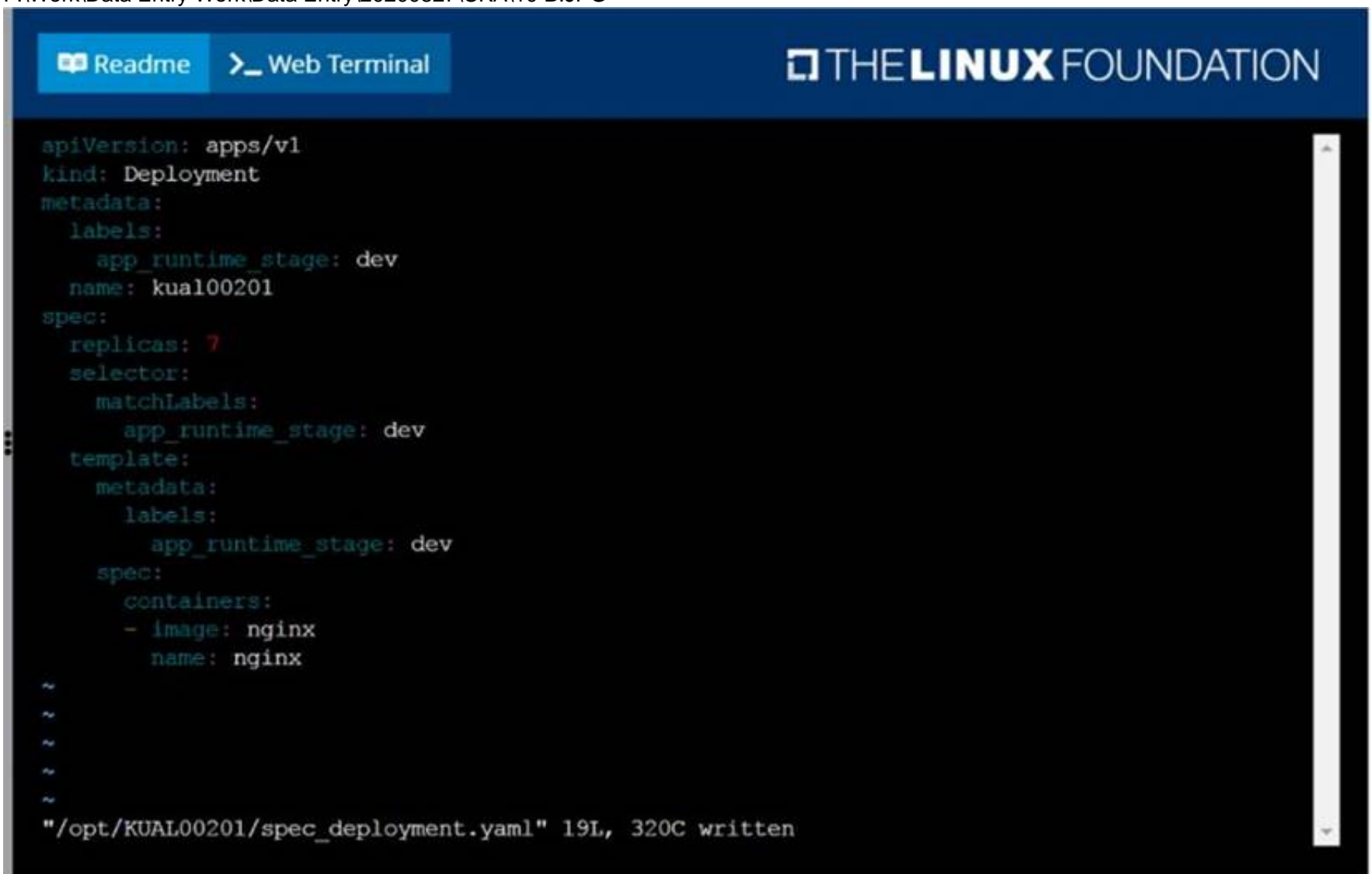
- A. Mastered  
B. Not Mastered

**Answer:** A**Explanation:**

solution



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#### NEW QUESTION 8

CORRECT TEXT

Scale the deployment webserver to 6 pods.

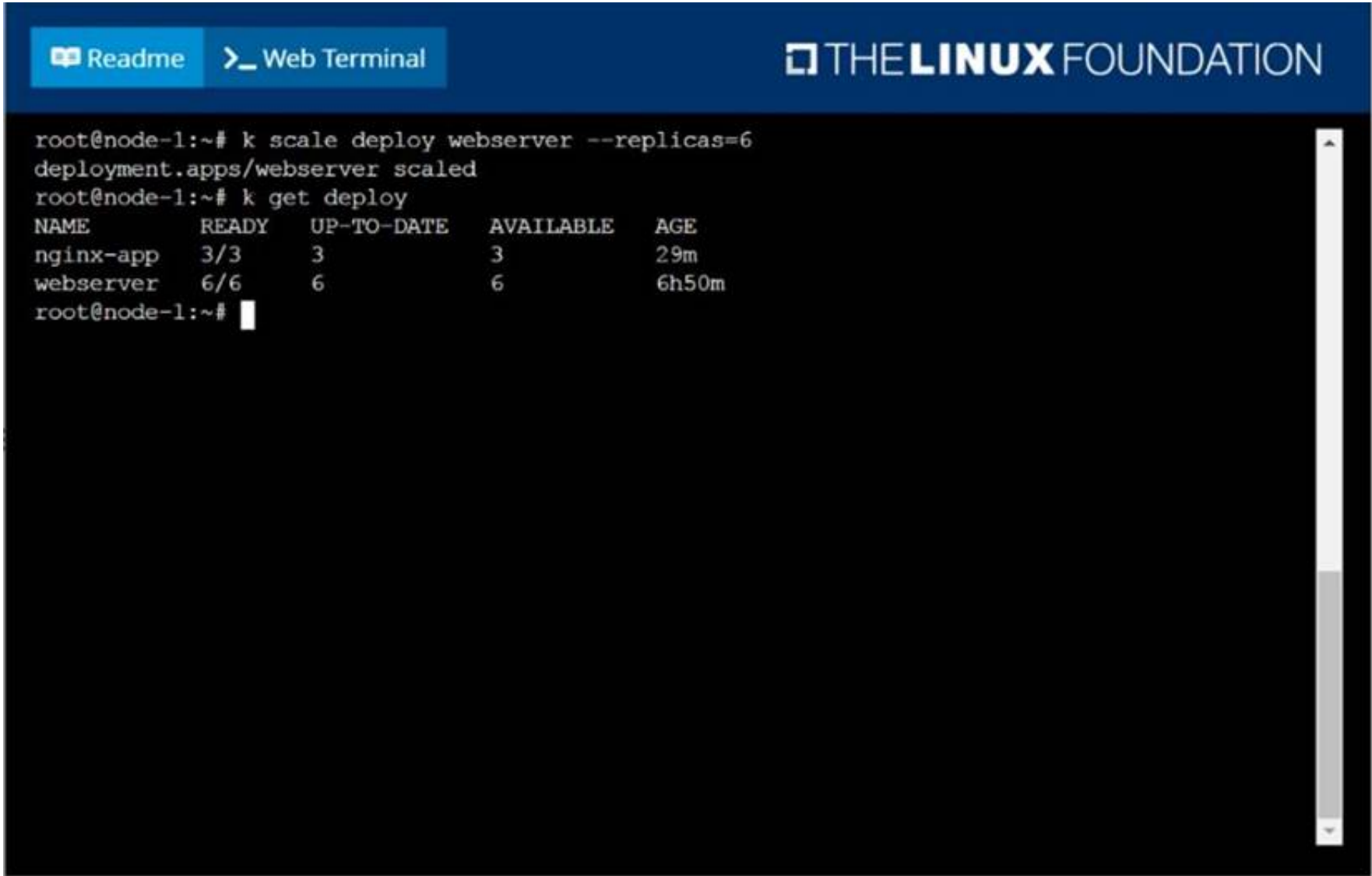
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution



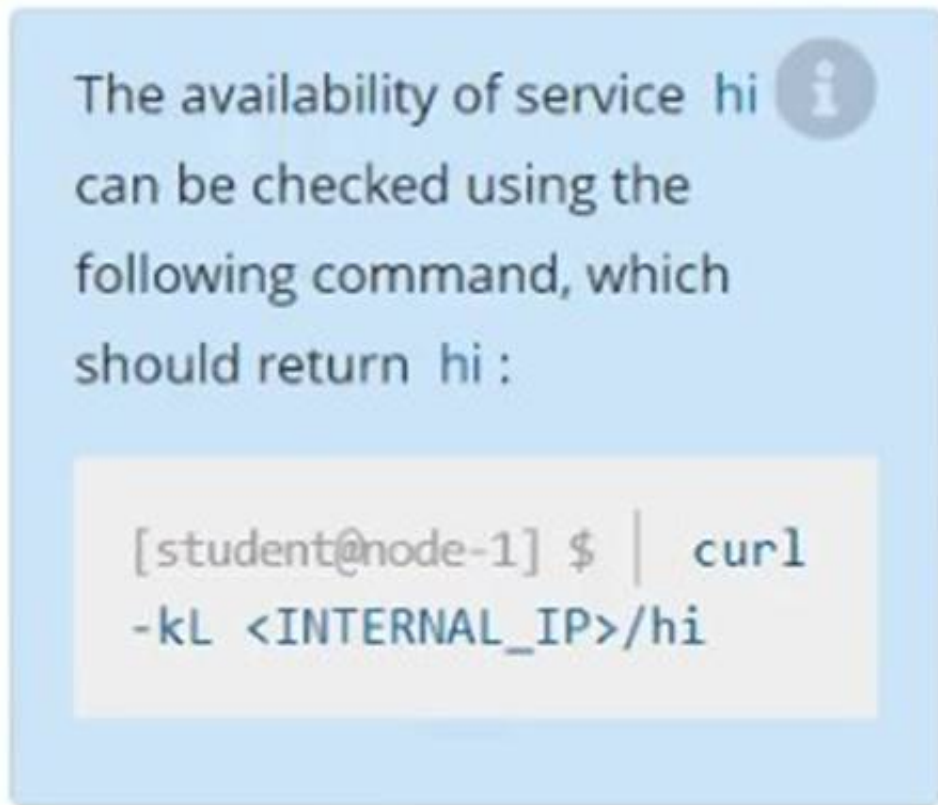


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NEW QUESTION 9  
CORRECT TEXT  
Score: 7%



- 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

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:

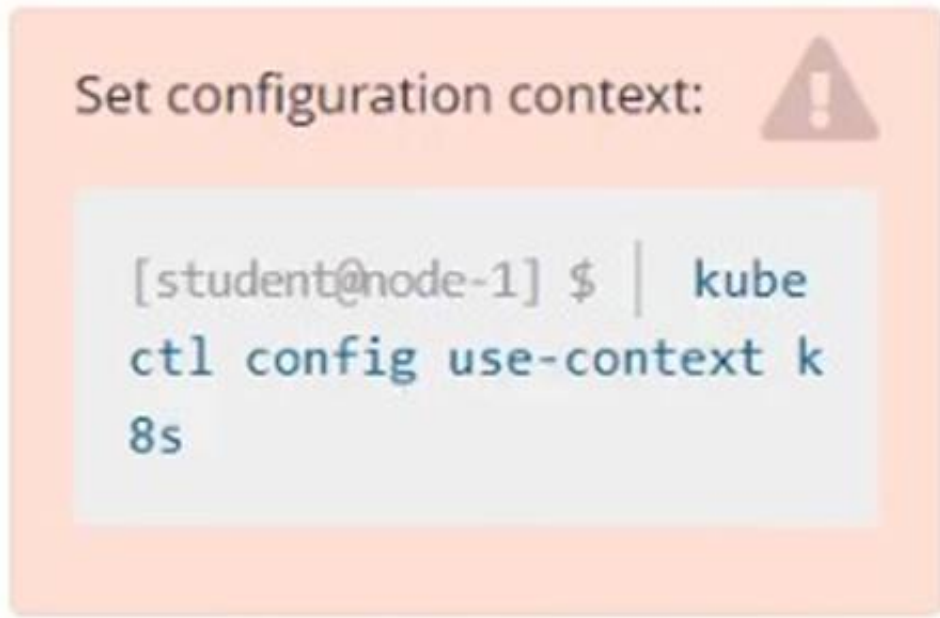
<https://docs.projectcalico.org/v3.14/manifests/calico.yaml>

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

**NEW QUESTION 15**

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 17**

CORRECT TEXT

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 19**

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.

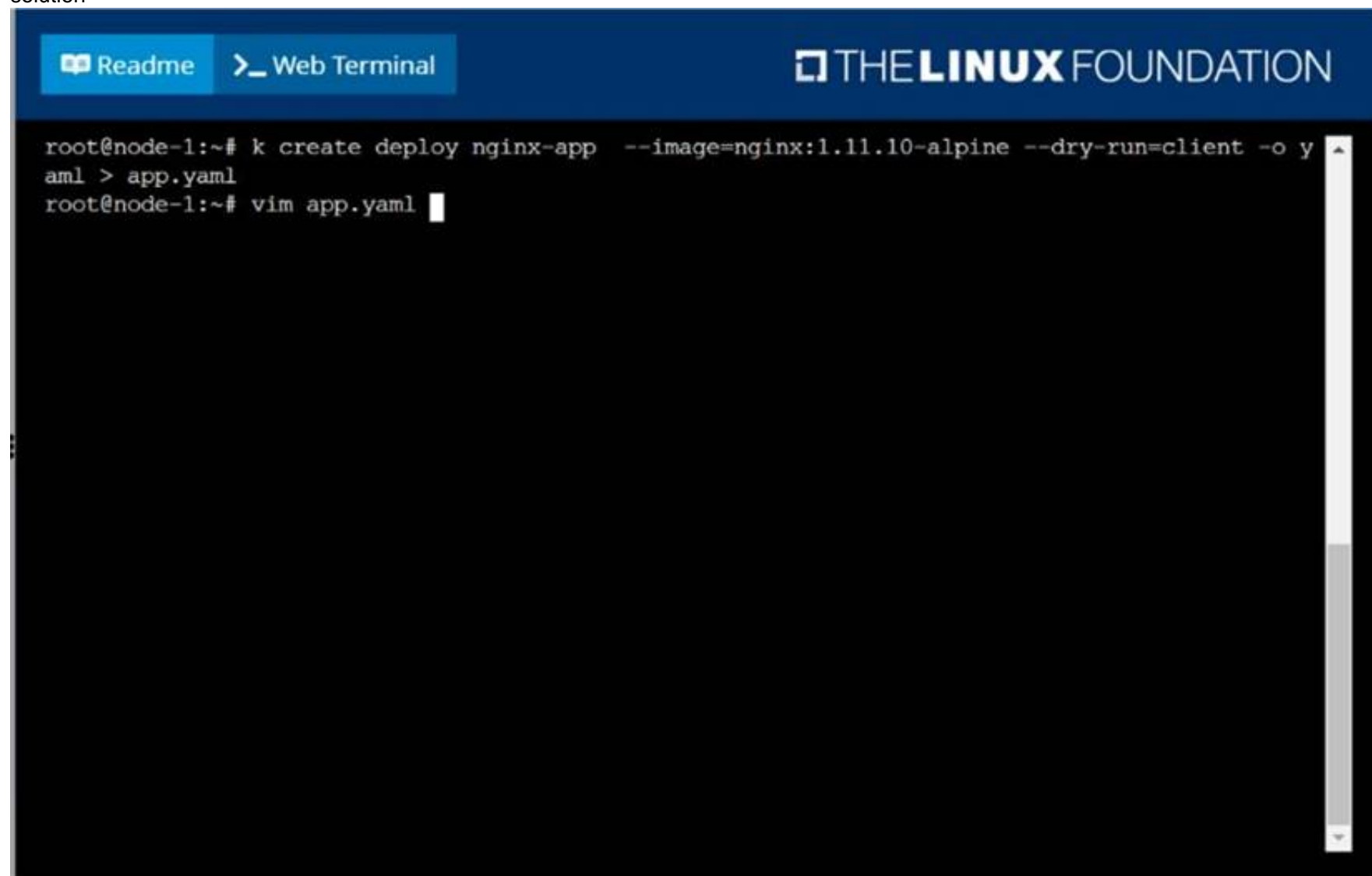
Finally, rollback that update to the previous version 1.11.10-alpine.

- A. Mastered
- B. Not Mastered

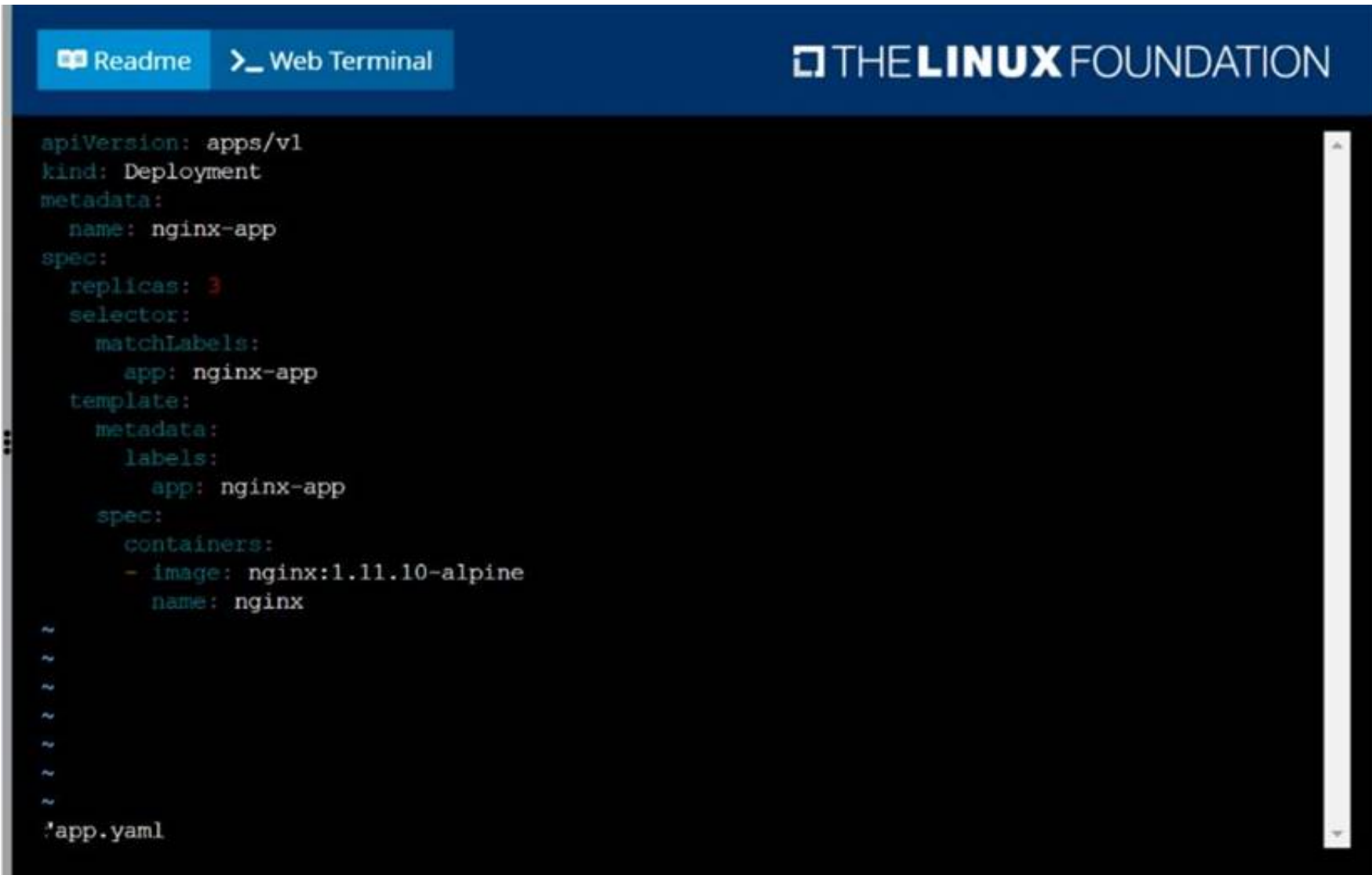
**Answer:** A

**Explanation:**

solution

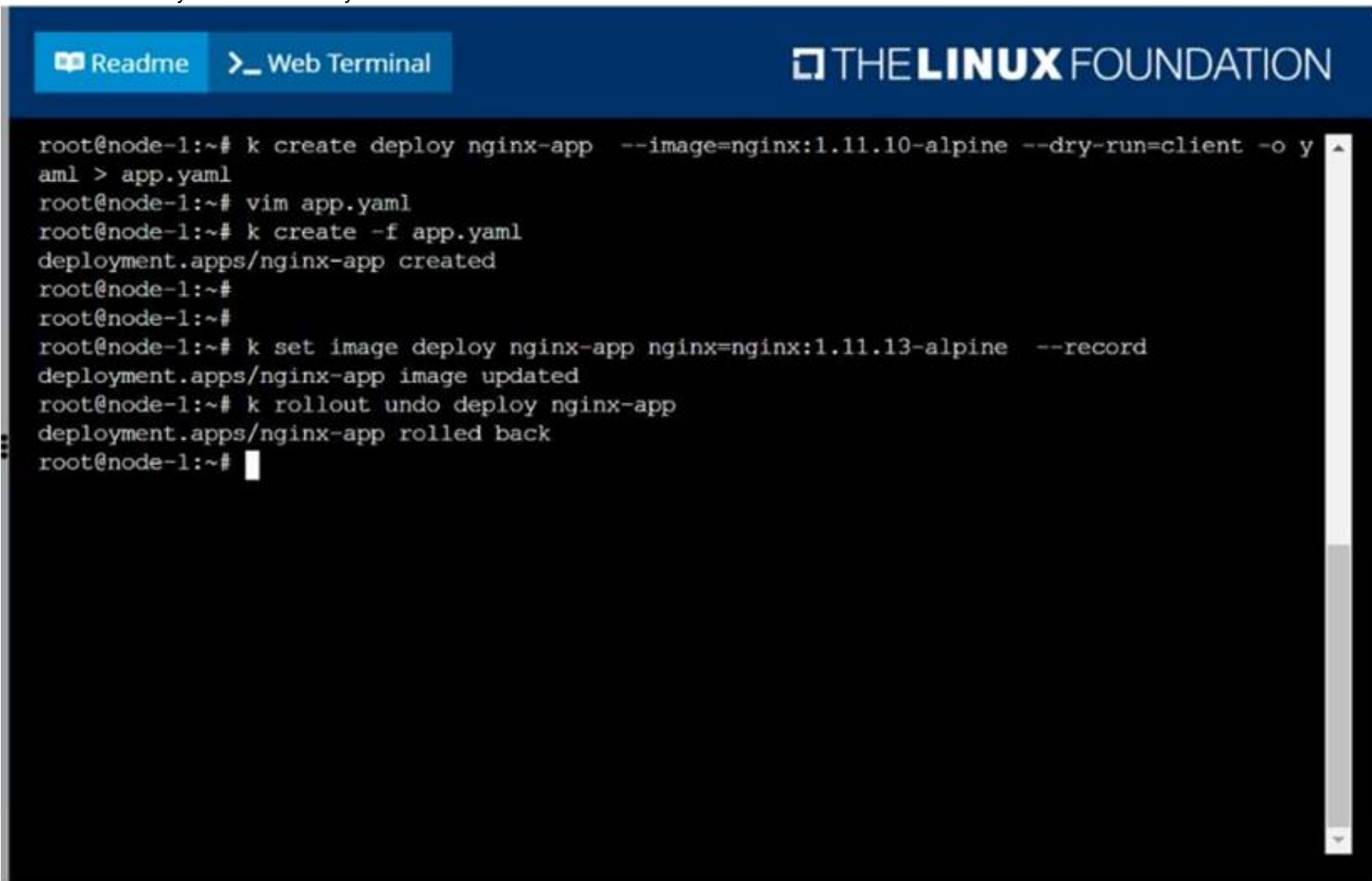


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```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx-app
  template:
    metadata:
      labels:
        app: nginx-app
    spec:
      containers:
      - image: nginx:1.11.10-alpine
        name: nginx
```

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```
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 21

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:

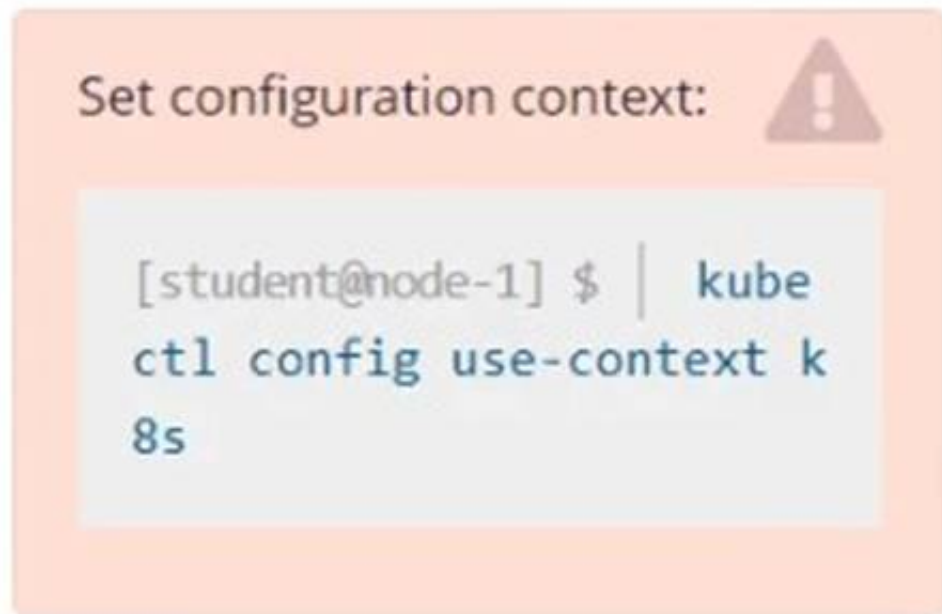
kubectl run busybox --image=busybox -it --rm --restart=Never --  
/bin/sh -c 'echo hello world'  
kubectl get po # You shouldn't see pod with the name "busybox"



**NEW QUESTION 22**

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
```

```
#
```

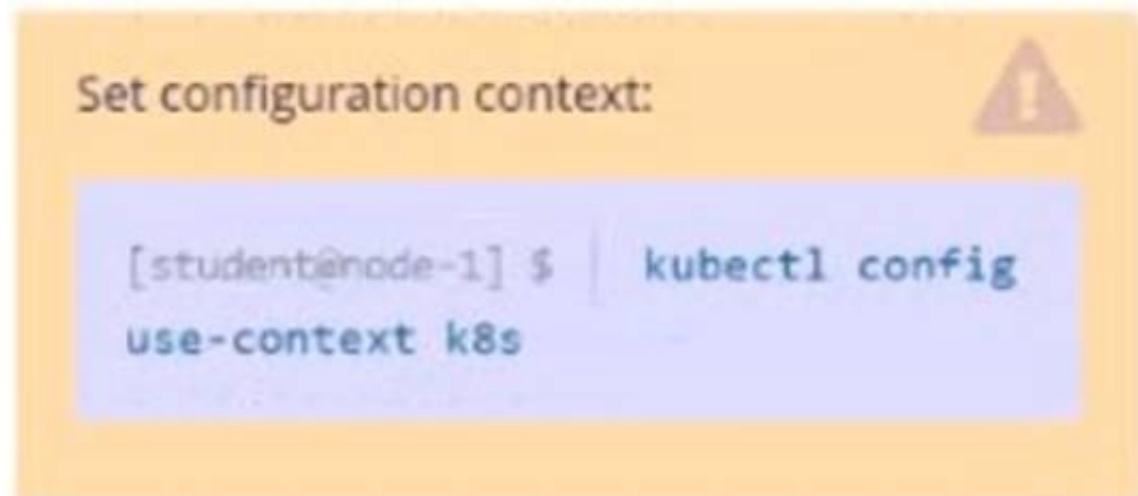
```
kubectl create -f kucc8.yaml
```

```
#12.07
```

**NEW QUESTION 27**

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 29

CORRECT TEXT

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

#### NEW QUESTION 31

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 33

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 36

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 37

CORRECT TEXT

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

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

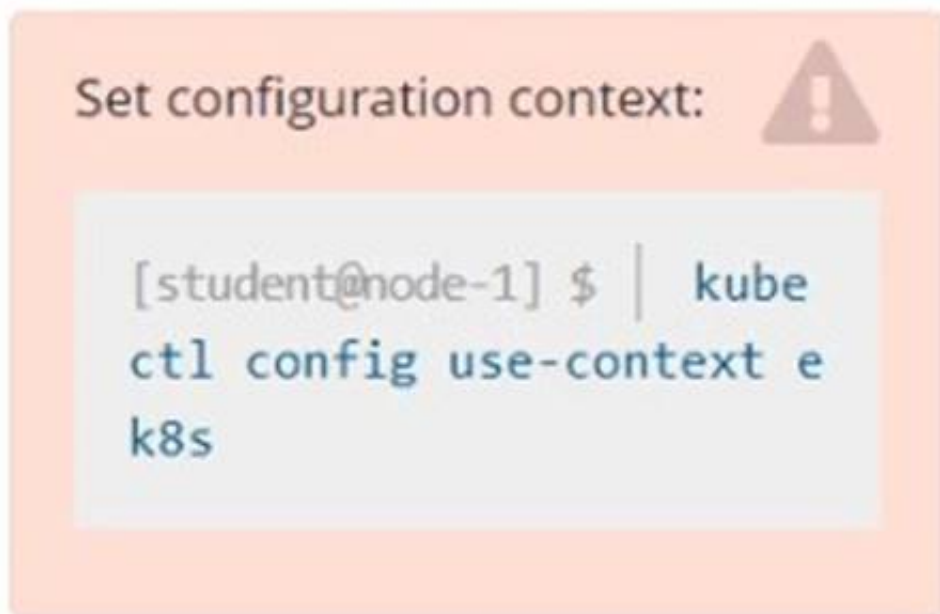
kubect1 get pods -o wide

kubectl delete po “nginx-dev”kubectl delete po “nginx-prod”

#### NEW QUESTION 39

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 42

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