



Linux-Foundation

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

NEW QUESTION 1

Create a pod with environment variables as var1=value1. Check the environment variable in pod

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
kubectrl run nginx --image=nginx --restart=Never --env=var1=value1
# then
kubectrl exec -it nginx -- env
# or
kubectrl exec -it nginx -- sh -c 'echo $var1'
# or
kubectrl describe po nginx | grep value1
```

NEW QUESTION 2

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 lookup the DNS records of the service & pod and write the output to /opt/KUNW00601/service.dns and /opt/KUNW00601/pod.dns respectively.

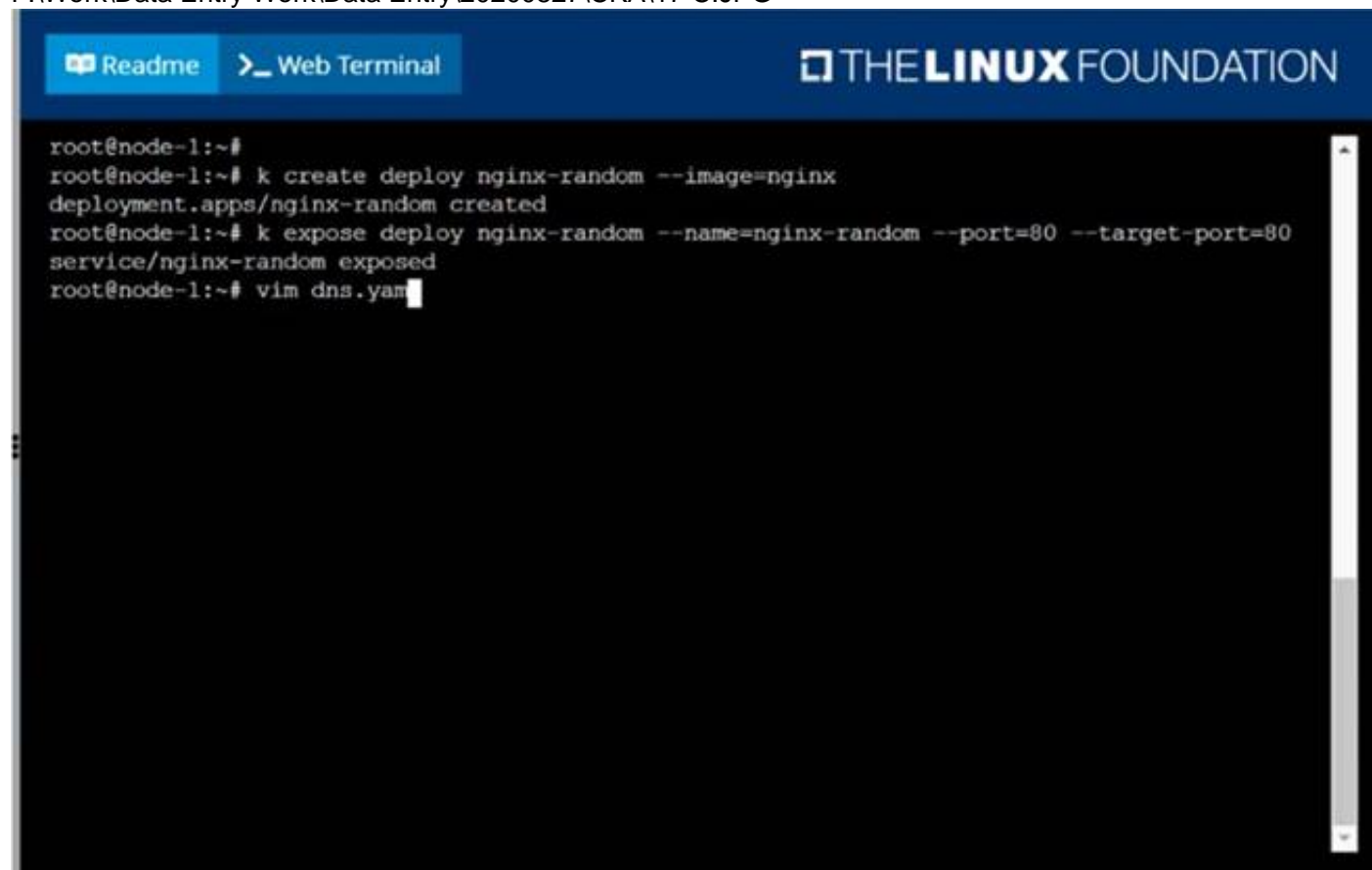
- A. Mastered
- B. Not Mastered

Answer: A

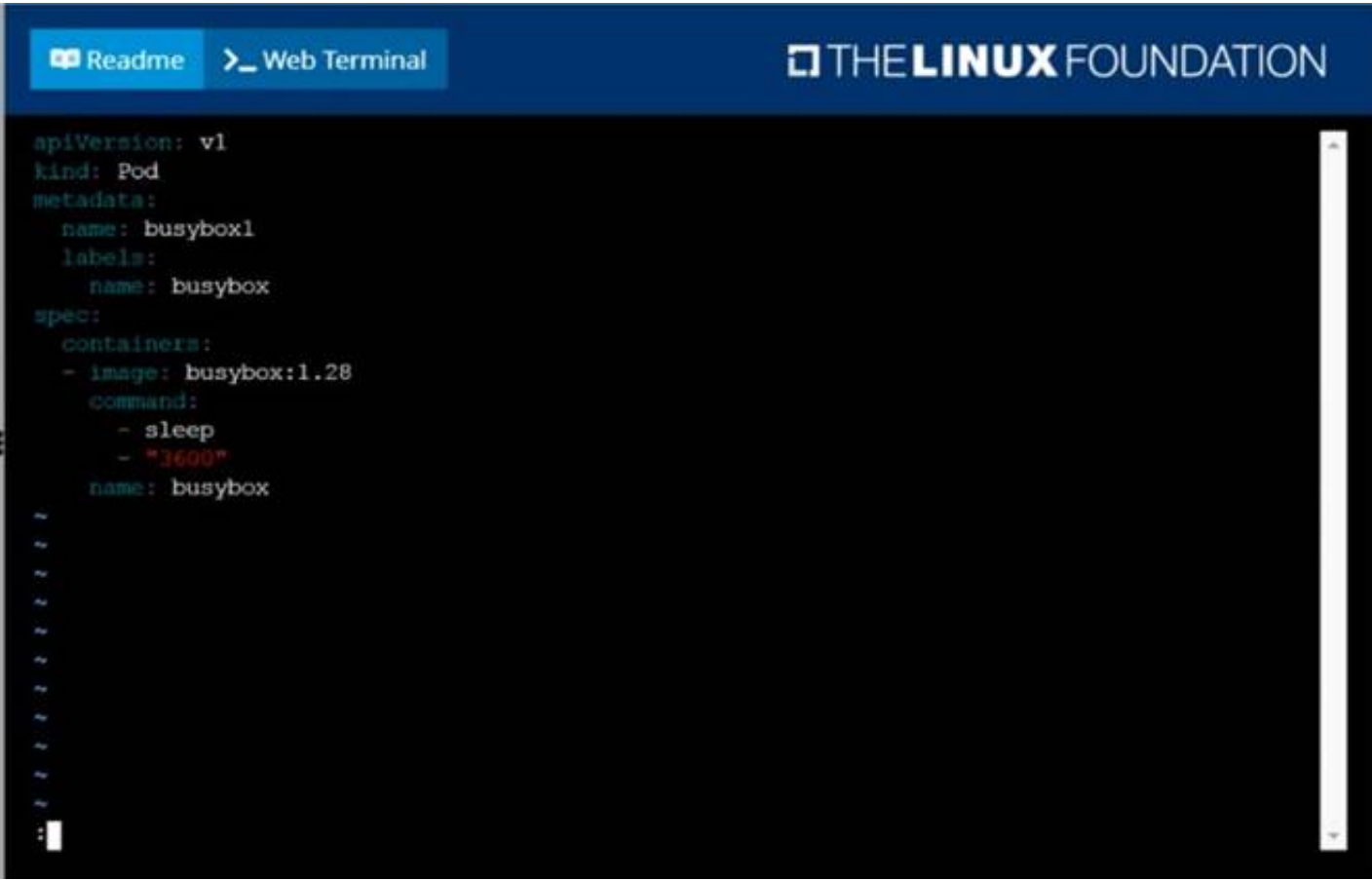
Explanation:

Solution:

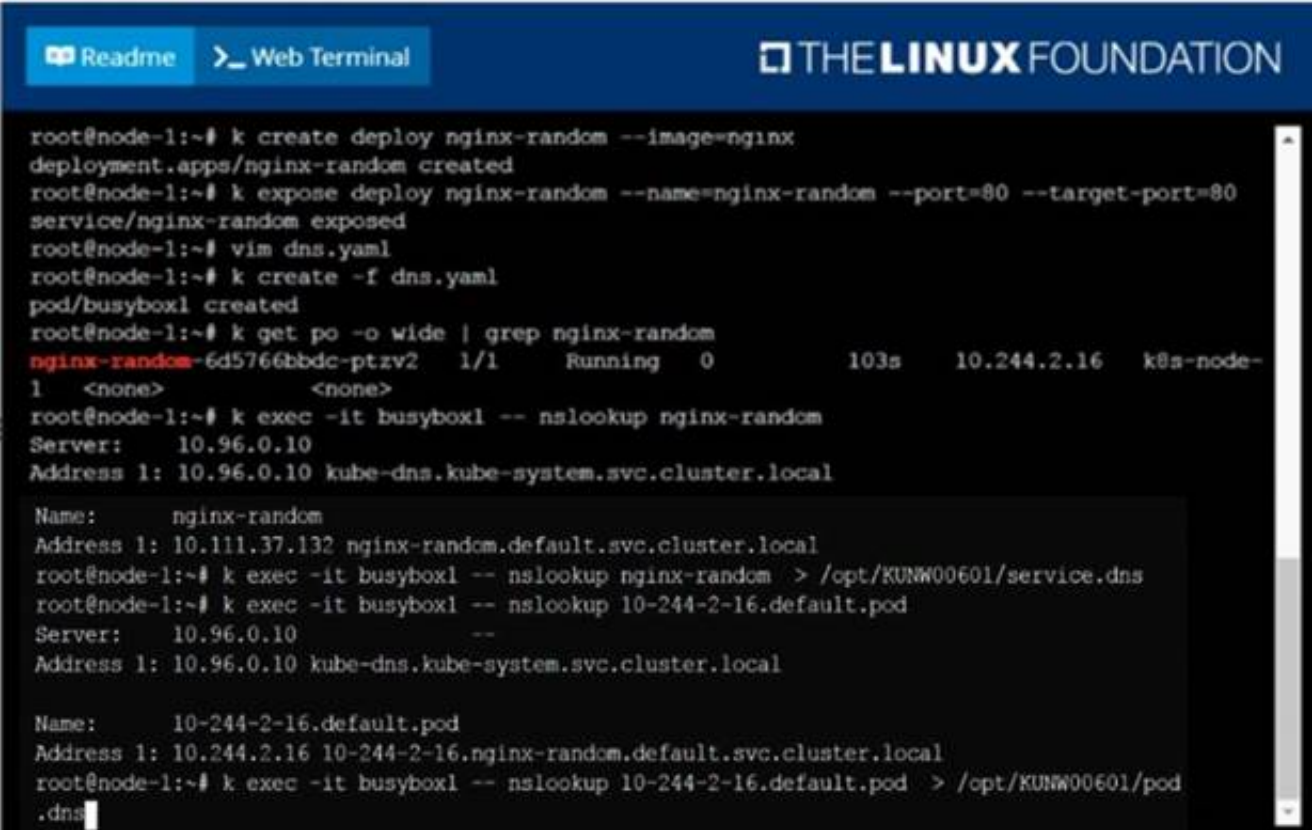
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NEW QUESTION 3

Create a pod as follows:

- > Name:mongo
- > Using Image:mongo
- > In anew Kubernetes namespacenamed:my-website

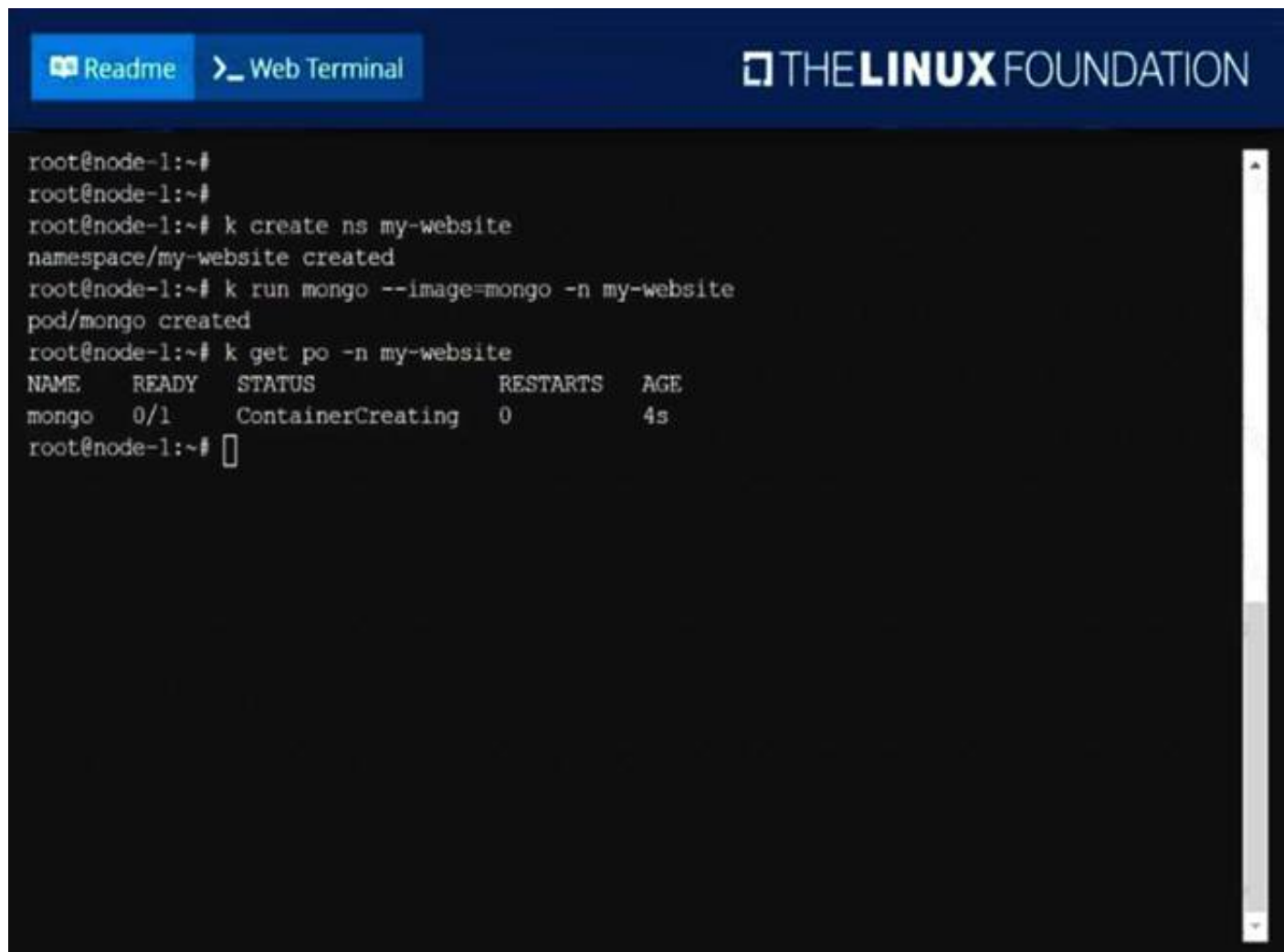
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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```
root@node-1:~#  
root@node-1:~#  
root@node-1:~# k create ns my-website  
namespace/my-website created  
root@node-1:~# k run mongo --image=mongo -n my-website  
pod/mongo created  
root@node-1:~# k get po -n my-website  
NAME      READY   STATUS             RESTARTS   AGE  
mongo     0/1     ContainerCreating   0           4s  
root@node-1:~#
```

NEW QUESTION 4

Create a deployment as follows:

- > Name:nginx-app
- > Using containernginxwithversion 1.11.10-alpine
- > The deployment should contain3replicas

Next, deploy the application with newversion1.11.13-alpine, byperforming a rolling update.

Finally, rollback that update to theprevious version1.11.10-alpine.

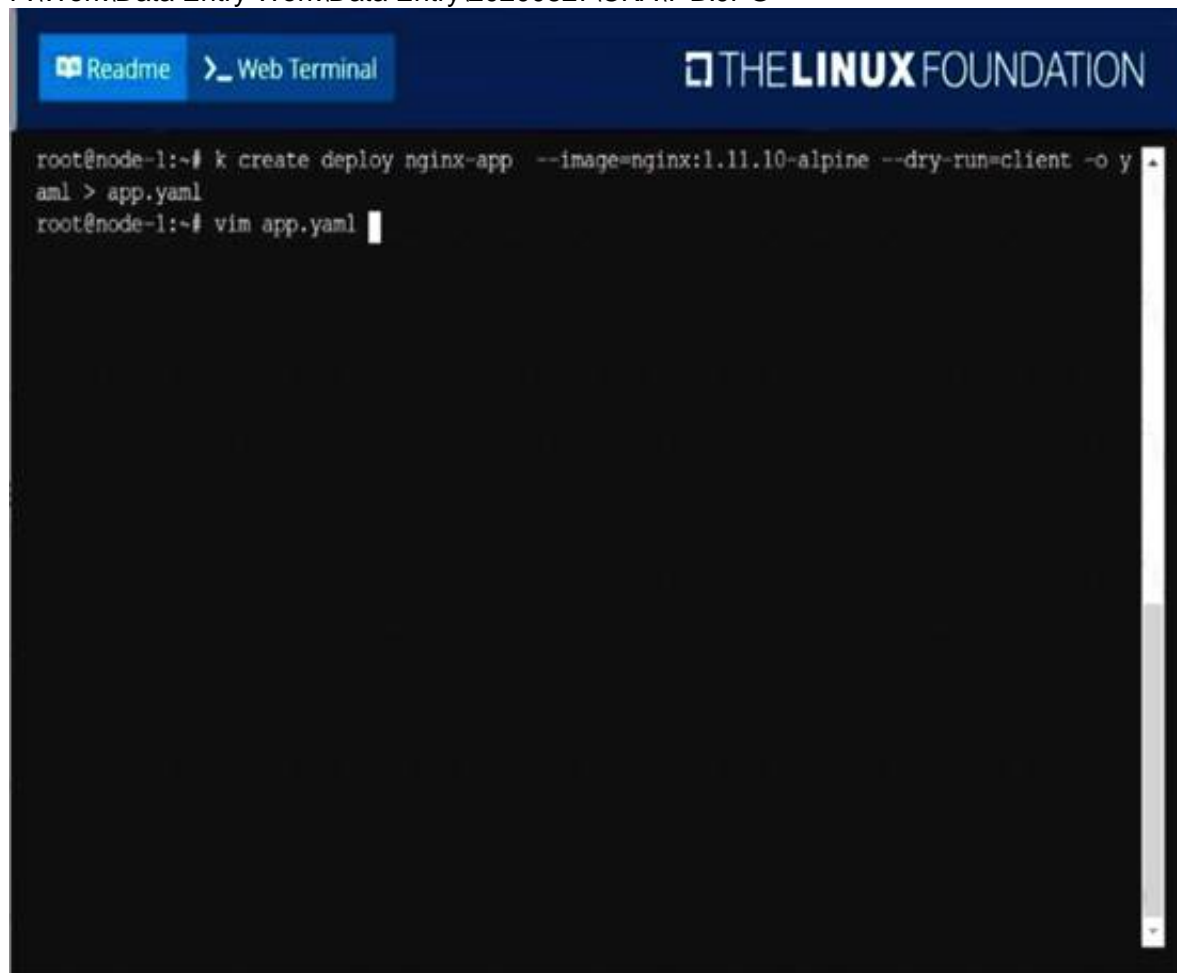
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

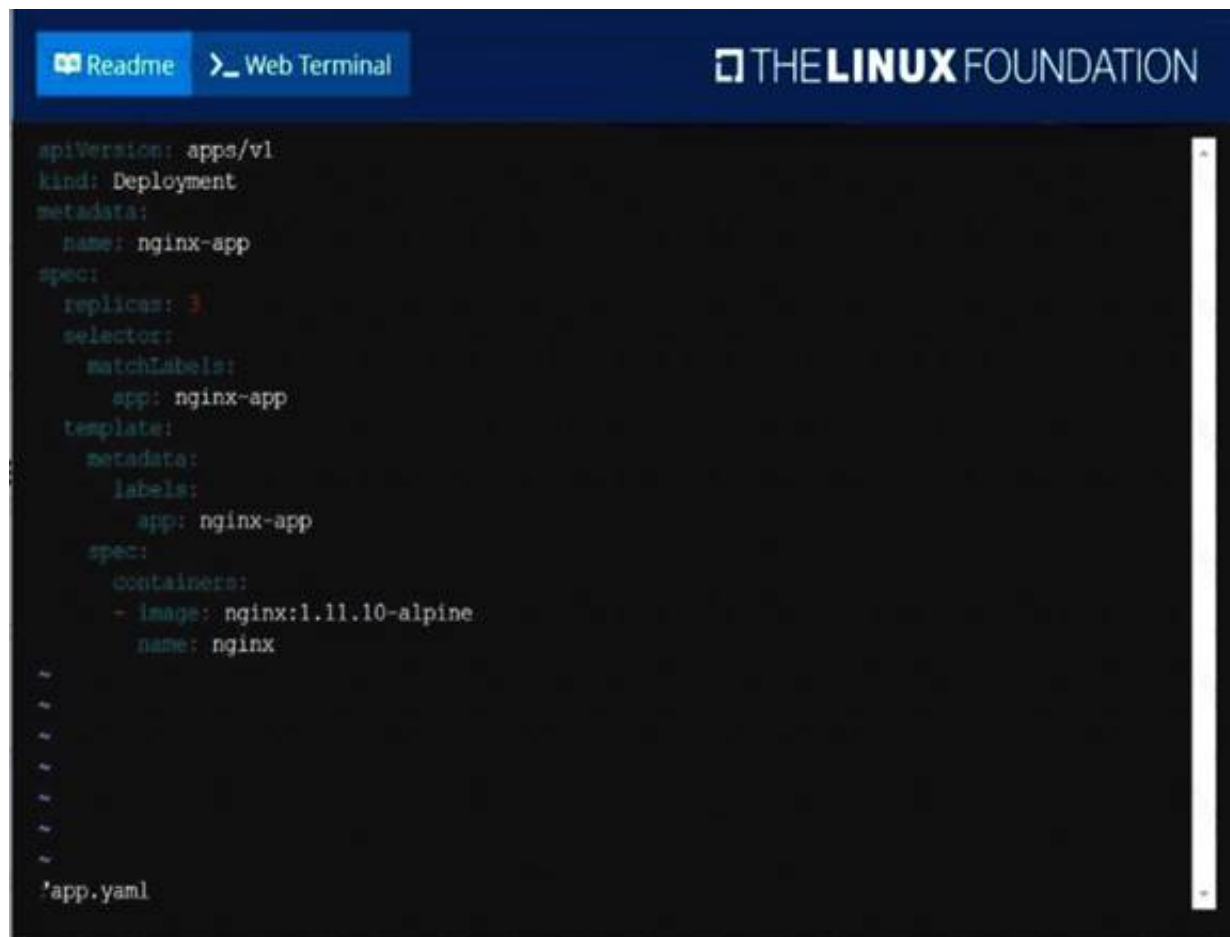
solution

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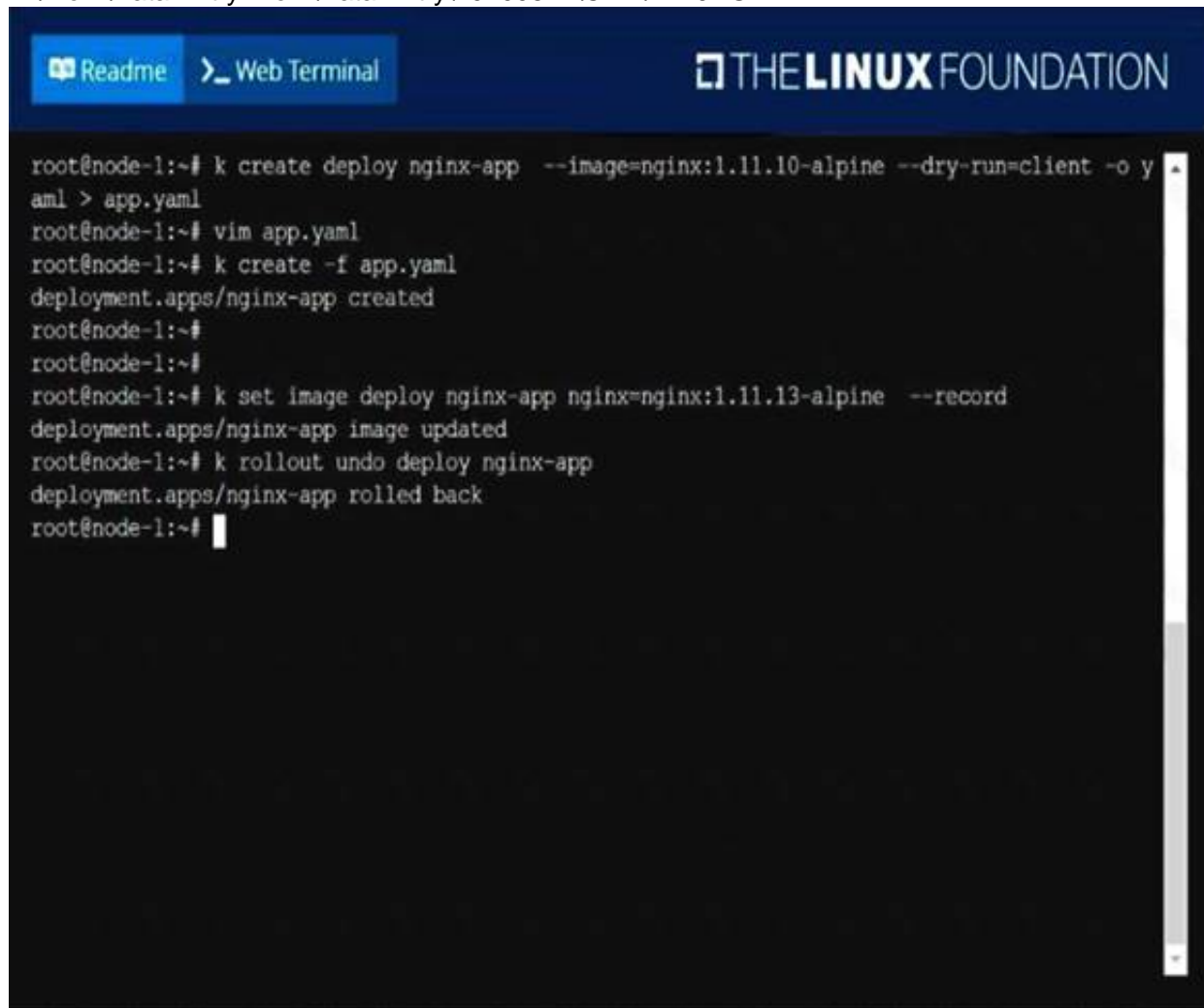
```
root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o y  
aml > app.yaml  
root@node-1:~# vim app.yaml
```

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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:~#
```

NEW QUESTION 5

Create a pod namedkucc8with asingle app container for each of the following images running inside(there may be between 1 and 4images specified): nginx + redis + memcached.

- A. Mastered
- B. Not Mastered

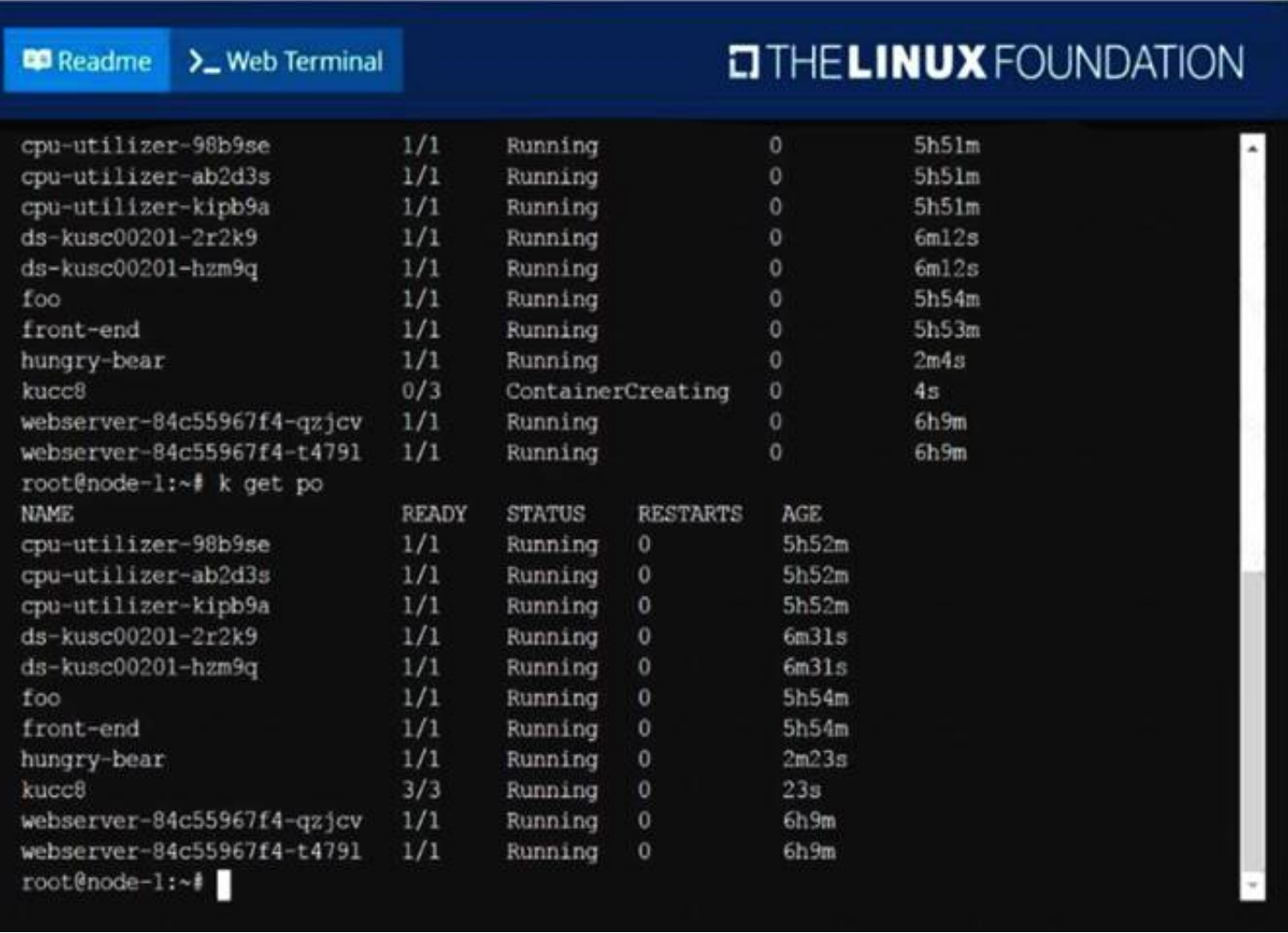
Answer: A

Explanation:

solution

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NEW QUESTION 6

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubectlrn nginx --image=nginx --restart=Never --port=80

NEW QUESTION 7

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 -nengineering-f ?C
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 8

List all persistent volumes sorted bycapacity, saving the fullkubectloutput to /opt/KUCC00102/volume_list. Usekubectl 's own functionality forsorting the output, and do not manipulate it any further.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution
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NEW QUESTION 9

Create a pod as follows:

- > Name:non-persistent-redis
- > container Image:redis
- > Volume with name:cache-control
- > Mount path:/data/redis

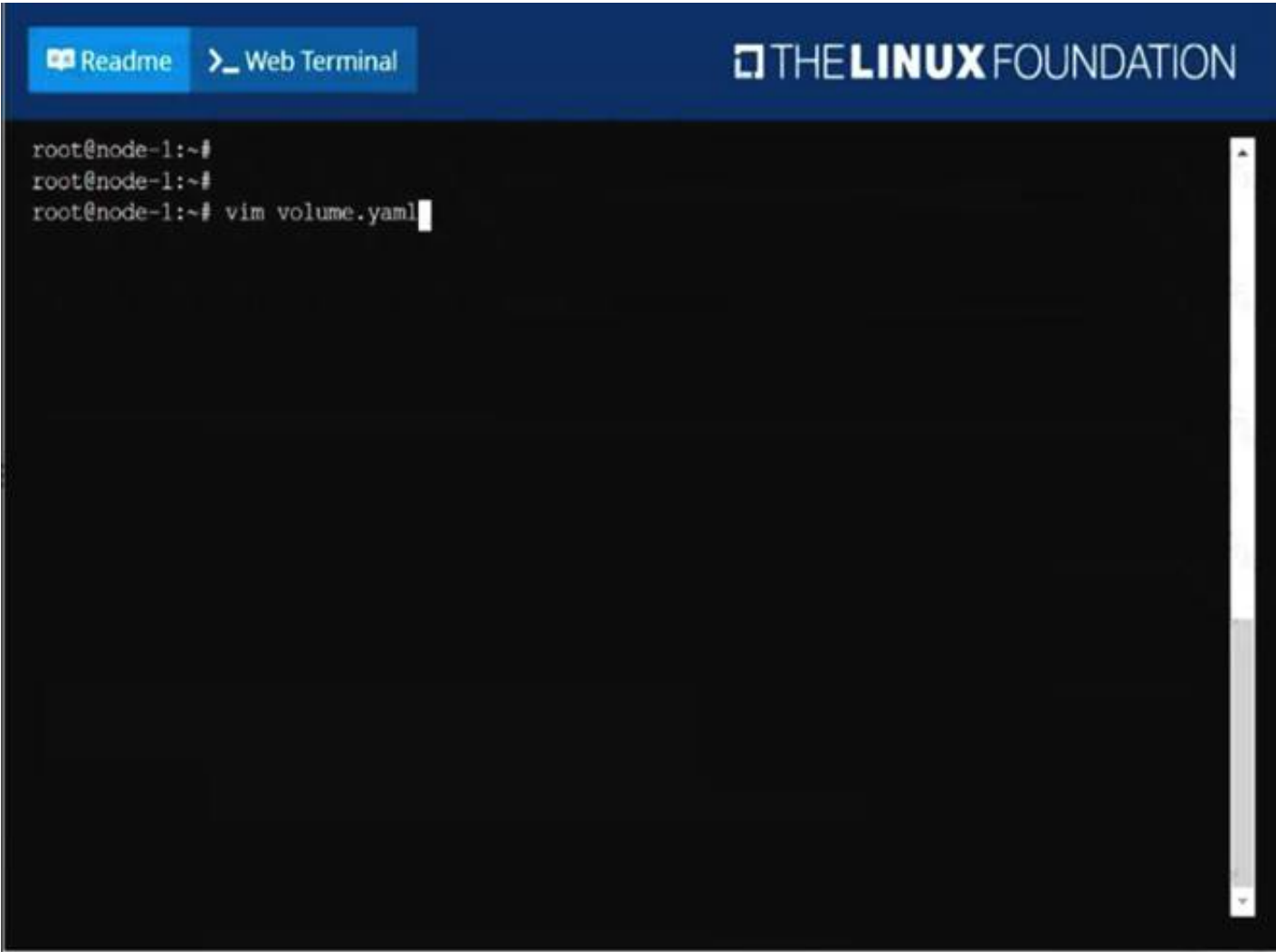
The pod should launch in the staging namespace and the volume must not be persistent.

- A. Mastered
- B. Not Mastered

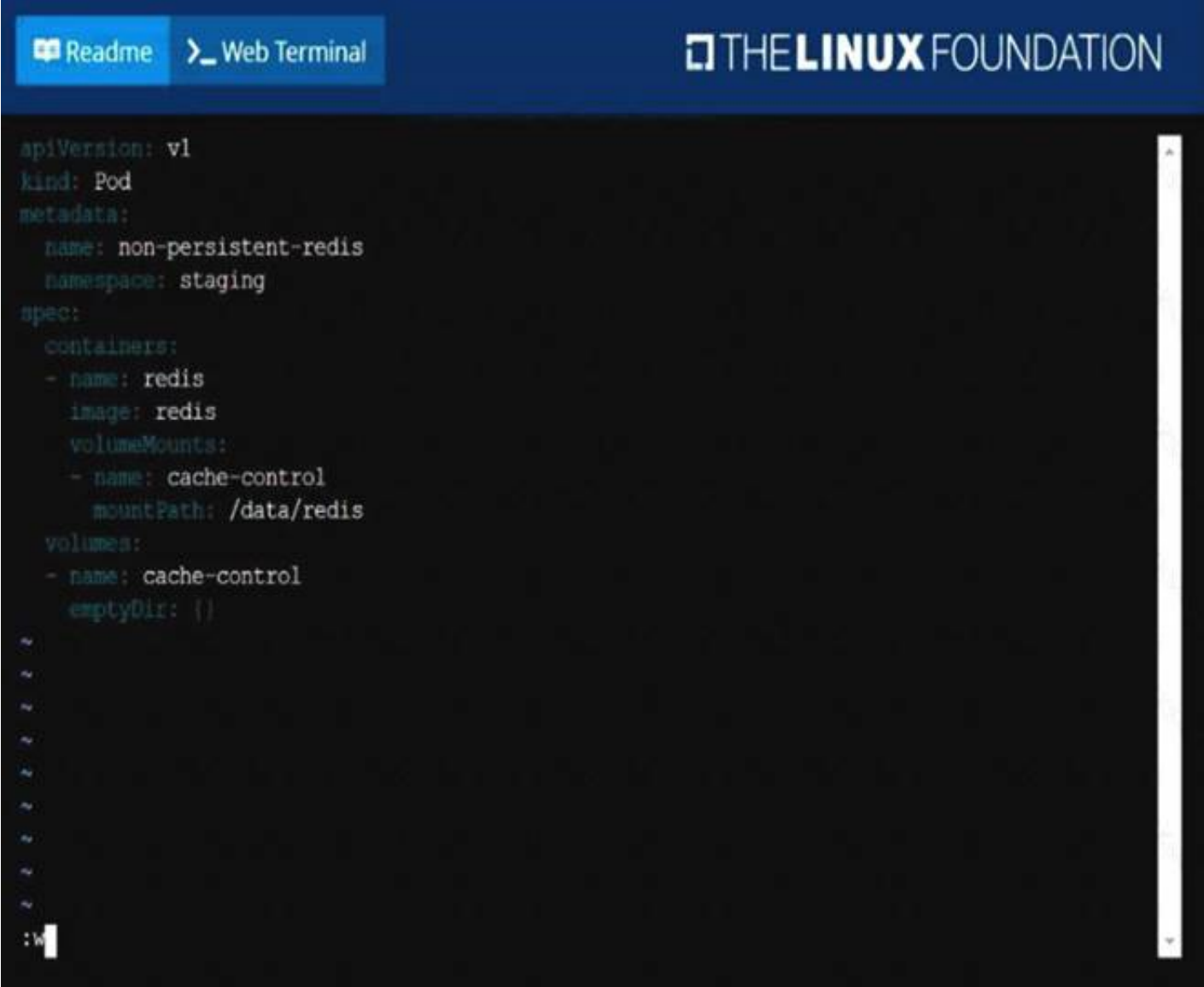
Answer: A

Explanation:

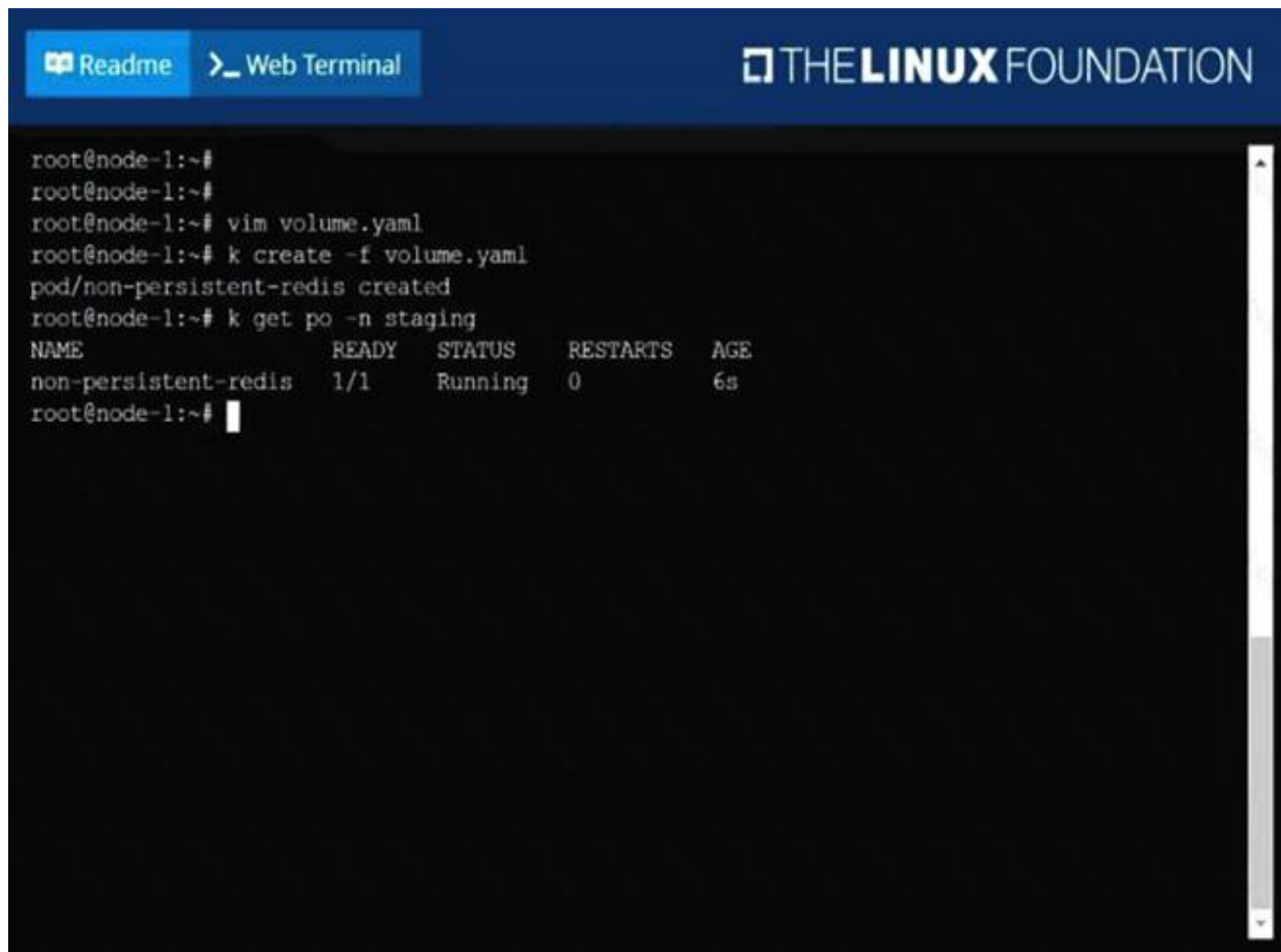
solution
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```
root@node-1:~#  
root@node-1:~#  
root@node-1:~# vim volume.yaml  
root@node-1:~# k create -f volume.yaml  
pod/non-persistent-redis created  
root@node-1:~# k get po -n staging  
NAME                READY   STATUS    RESTARTS   AGE  
non-persistent-redis 1/1     Running   0           6s  
root@node-1:~#
```

NEW QUESTION 10

Ensure a single instance of podnginx 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.

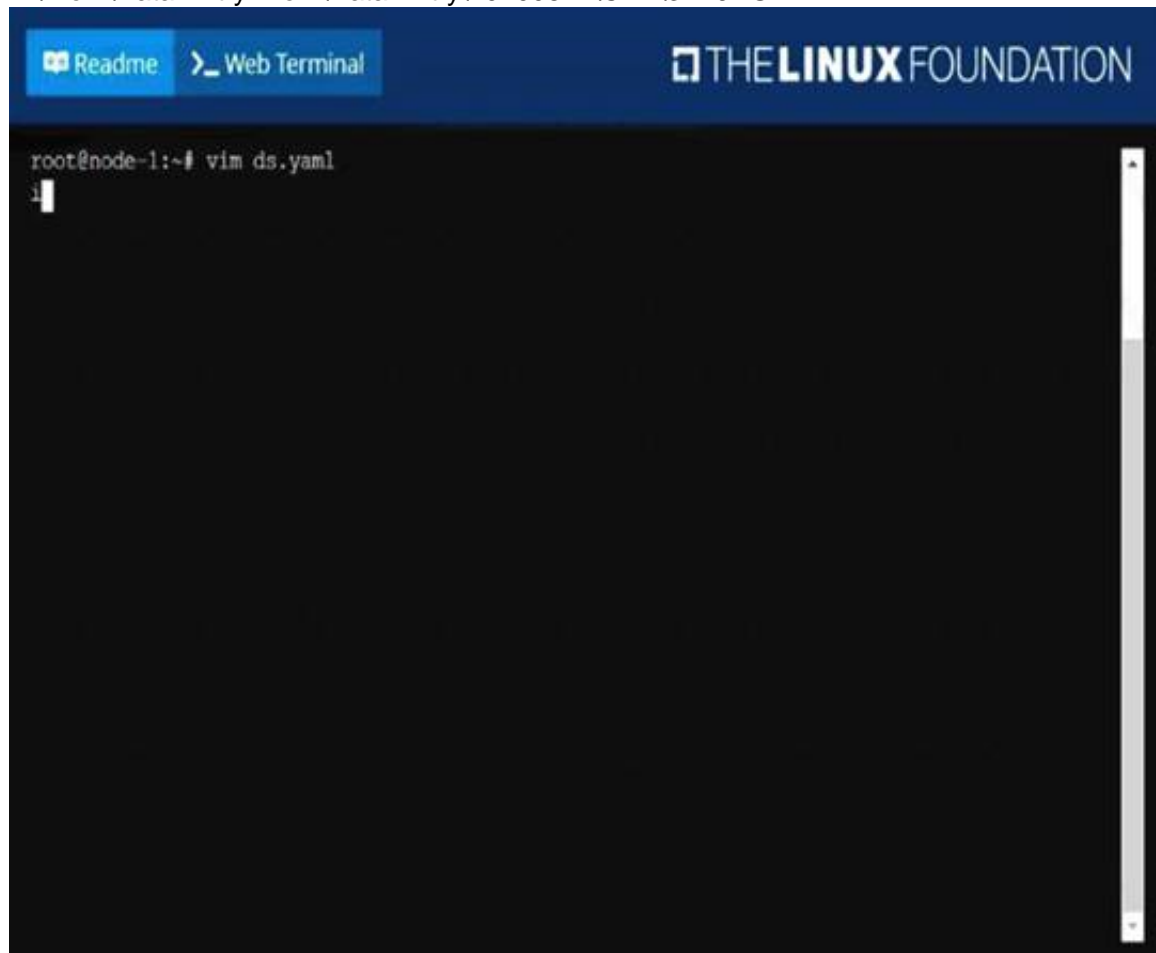
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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

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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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Readme Web Terminal THE LINUX FOUNDATION

```
root@node-1:~# vim ds.yaml
root@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
NAME          DESIRED  CURRENT  READY  UP-TO-DATE  AVAILABLE  NODE SELECTOR  AGE
ds-kusc00201  2        2        2      2           2          <none>         4s
root@node-1:~#
```

NEW QUESTION 10

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}'
```

NEW QUESTION 14

Create 2 nginx image pods in which one of them is labelled with env=prod and another one labelled with env=dev and verify the same.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubectl run --generator=run-pod/v1 --image=nginx -- labels=env=prod nginx-prod --dry-run -o yaml > nginx-prodpod.yaml Now, edit nginx-prod-pod.yaml file and remove entries like ??creationTimestamp: null?? ??dnsPolicy: ClusterFirst??

```
vim nginx-prod-pod.yaml apiVersion: v1
```

```
kind: Pod metadata: labels: env: prod
```

```
name: nginx-prod spec:
```

```
containers:
```

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

```
restartPolicy: Always
```

```
# kubectl create -f nginx-prod-pod.yaml
```

```
kubectl run --generator=run-pod/v1 --image=nginx -- labels=env=dev nginx-dev --dry-run -o yaml > nginx-dev-pod.yaml apiVersion: v1
```

```
kind: Pod metadata: labels: env: dev
```

```
name: nginx-dev
```

```
spec: containers:
```

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

```
restartPolicy: Always
```

```
# kubectl create -f nginx-prod-dev.yaml Verify :
```

```
kubectl get po --show-labels kubectl get po -l env=prod kubectl get po -l env=dev
```

NEW QUESTION 16

Perform the following tasks:

- > Add an init container tohungry-bear(which has beendefined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)
- > The init container should createan empty file named/workdir/calm.txt
- > If/workdir/calm.txtis notdetected, the pod should exit
- > Once the spec file has beenupdatedwith the init containerdefinition, the pod should becreated

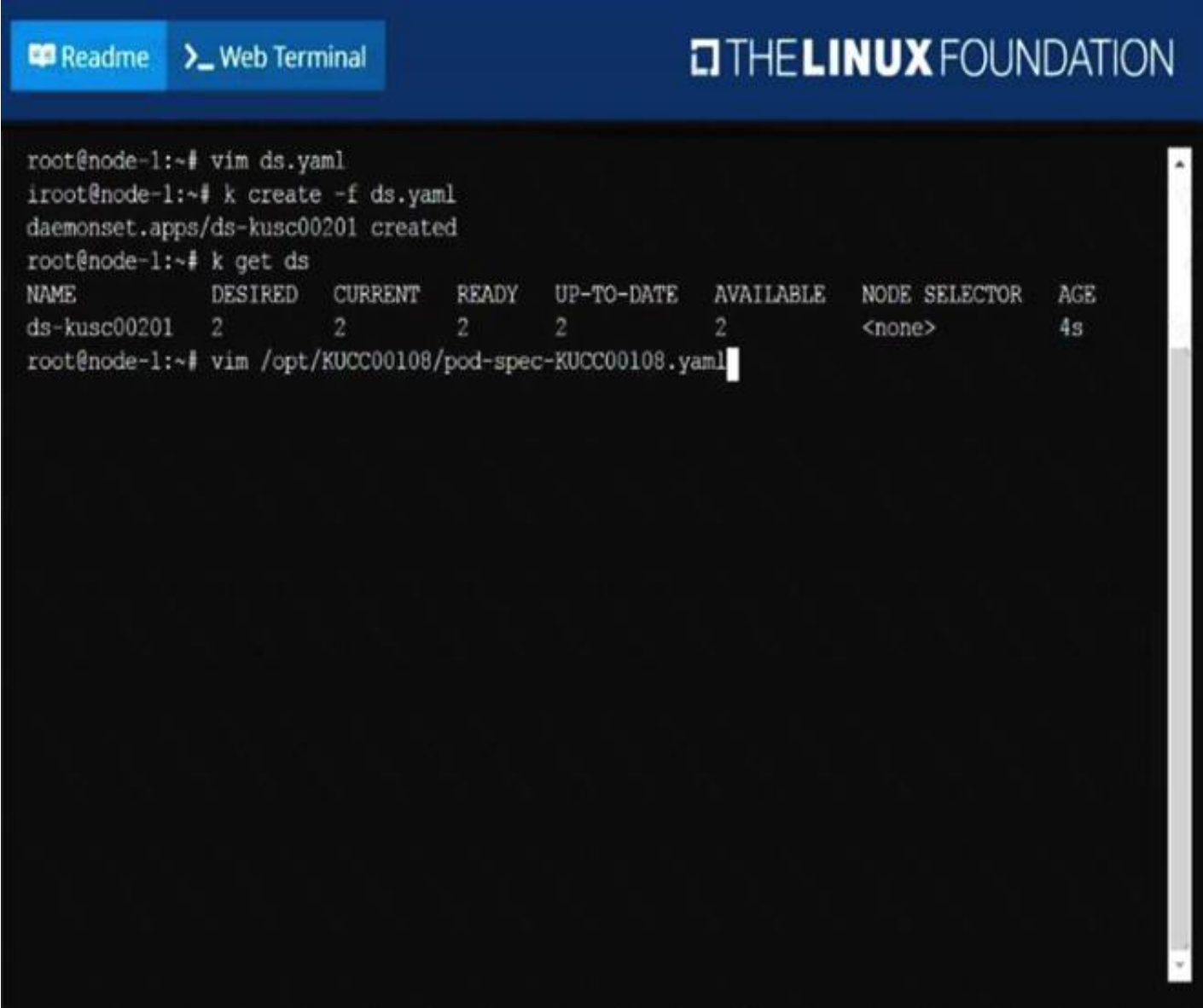
- A. Mastered
- B. Not Mastered

Answer: A

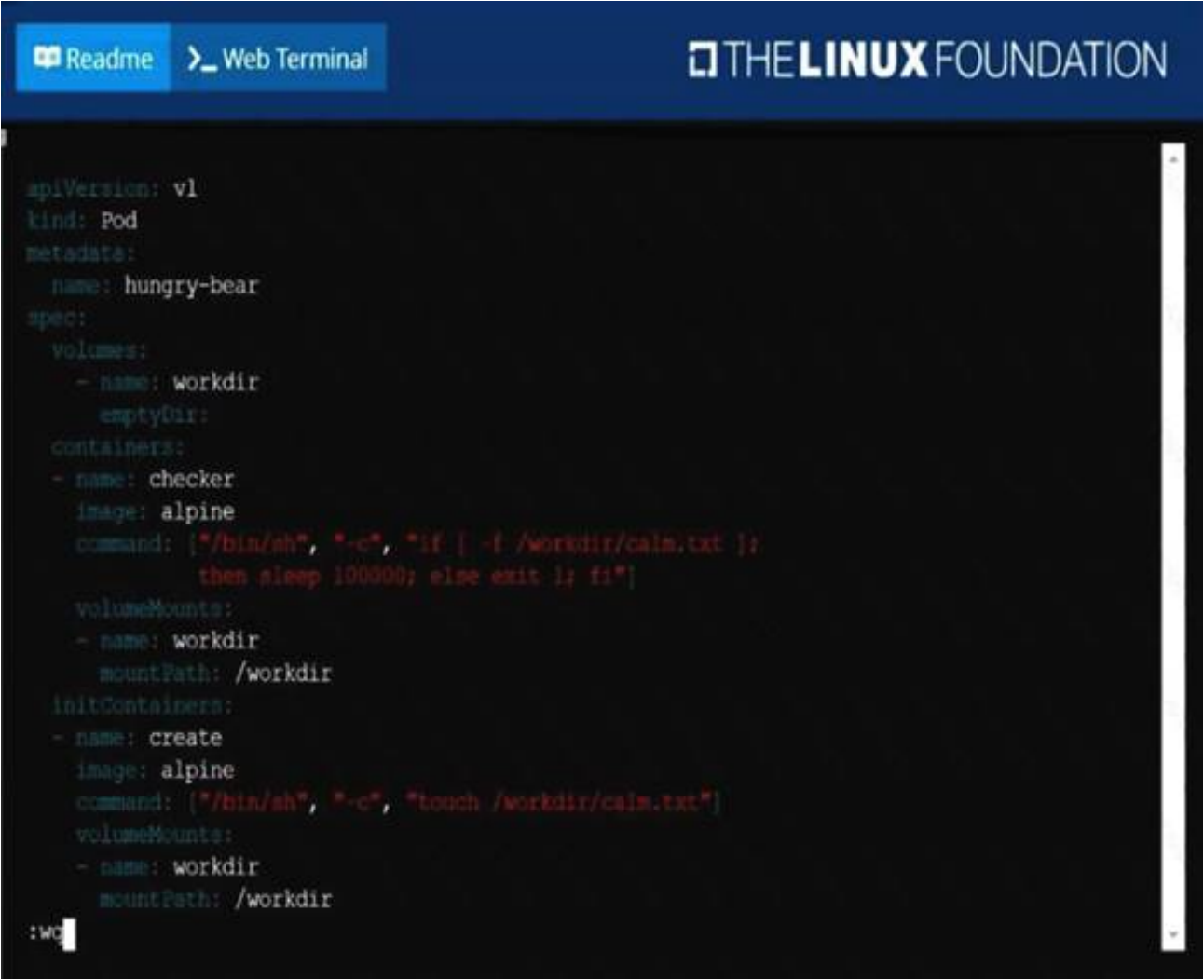
Explanation:

solution

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ReadmeWeb Terminal

THE LINUX FOUNDATION

```
root@node-1:~# vim ds.yaml
iroot@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
NAME          DESIRED  CURRENT  READY  UP-TO-DATE  AVAILABLE  NODE SELECTOR  AGE
ds-kusc00201   2        2        2      2           2          <none>         4s
root@node-1:~# 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:~#
```

NEW QUESTION 18

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}'

NEW QUESTION 23

Create a busybox pod and add ??sleep 3600?? command

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubectl run busybox --image=busybox --restart=Never -- /bin/sh -c "sleep 3600"

NEW QUESTION 24

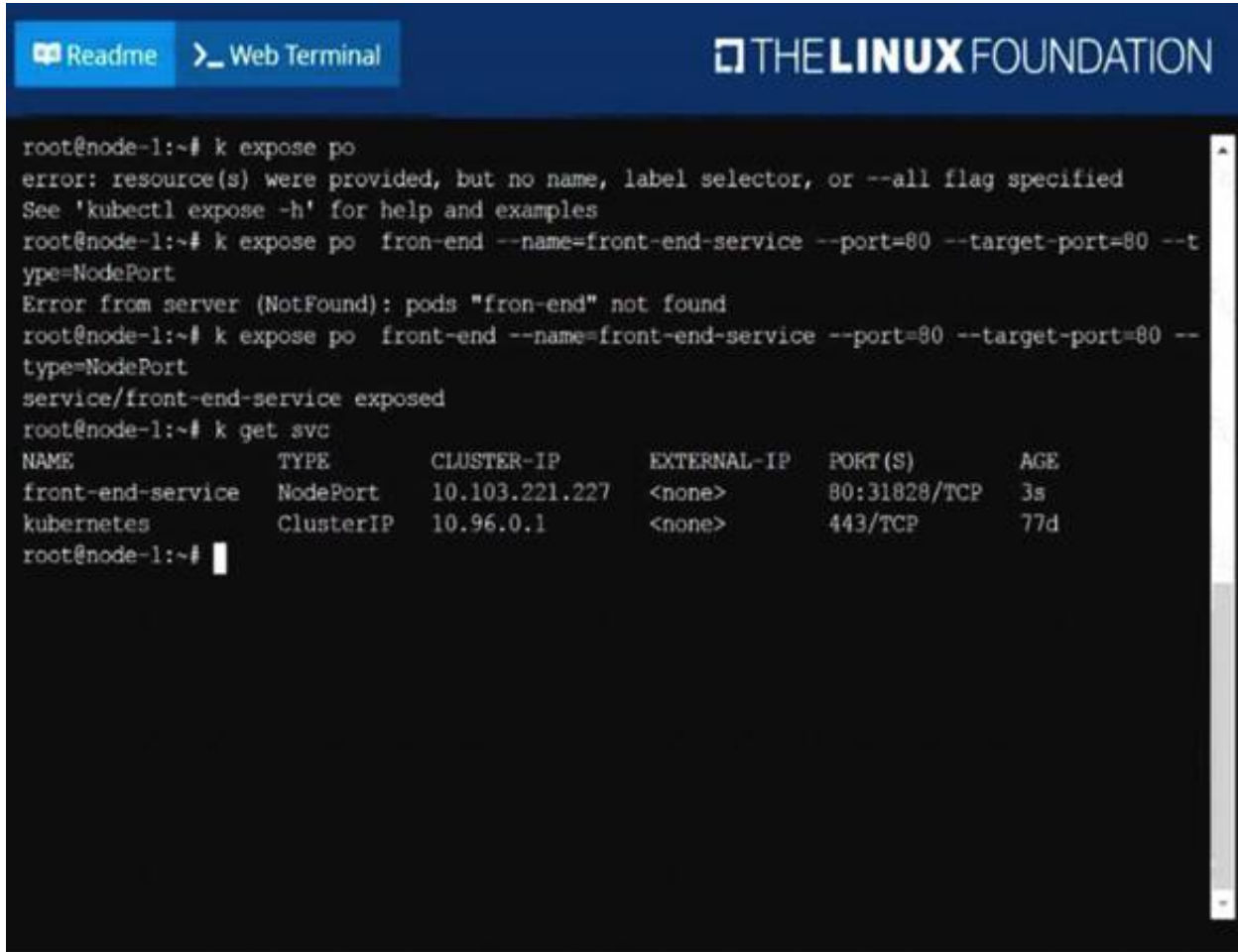
Create and configure the servicefront-end-serviceso it's accessiblethroughNodePortand routes to theexisting pod namedfront-end.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution
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```
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:~#
```

NEW QUESTION 25

Get IP address of the pod ?C ??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 29

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

Create a snapshot of theetcdinstance running athttps://127.0.0.1:2379, saving thesnapshot to the file path /srv/data/etcd-snapshot.db.

The following TLScertificates/key are suppliedfor connecting to the server withetcdctl:

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

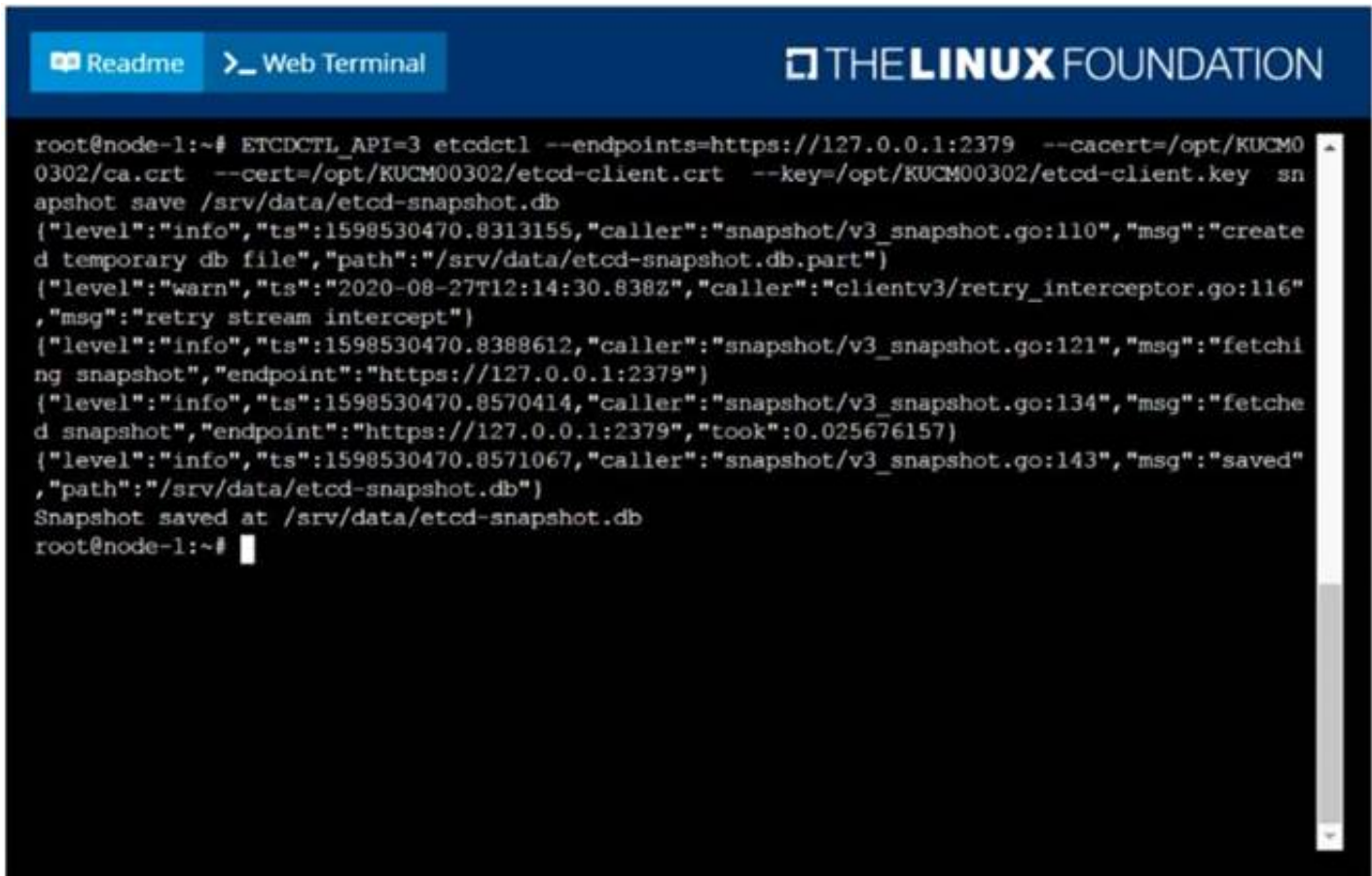
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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



```
root@node-1:~# ETCDCTL_API=3 etcdctl --endpoints=https://127.0.0.1:2379 --cacert=/opt/KUCM00302/ca.crt --cert=/opt/KUCM00302/etcd-client.crt --key=/opt/KUCM00302/etcd-client.key snapshot save /srv/data/etcd-snapshot.db
{"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":"fetchi ng snapshot","endpoint":"https://127.0.0.1:2379"}
{"level":"info","ts":1598530470.8570414,"caller":"snapshot/v3_snapshot.go:134","msg":"fetche d 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:~#
```

NEW QUESTION 35

Schedule a pod as follows:

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

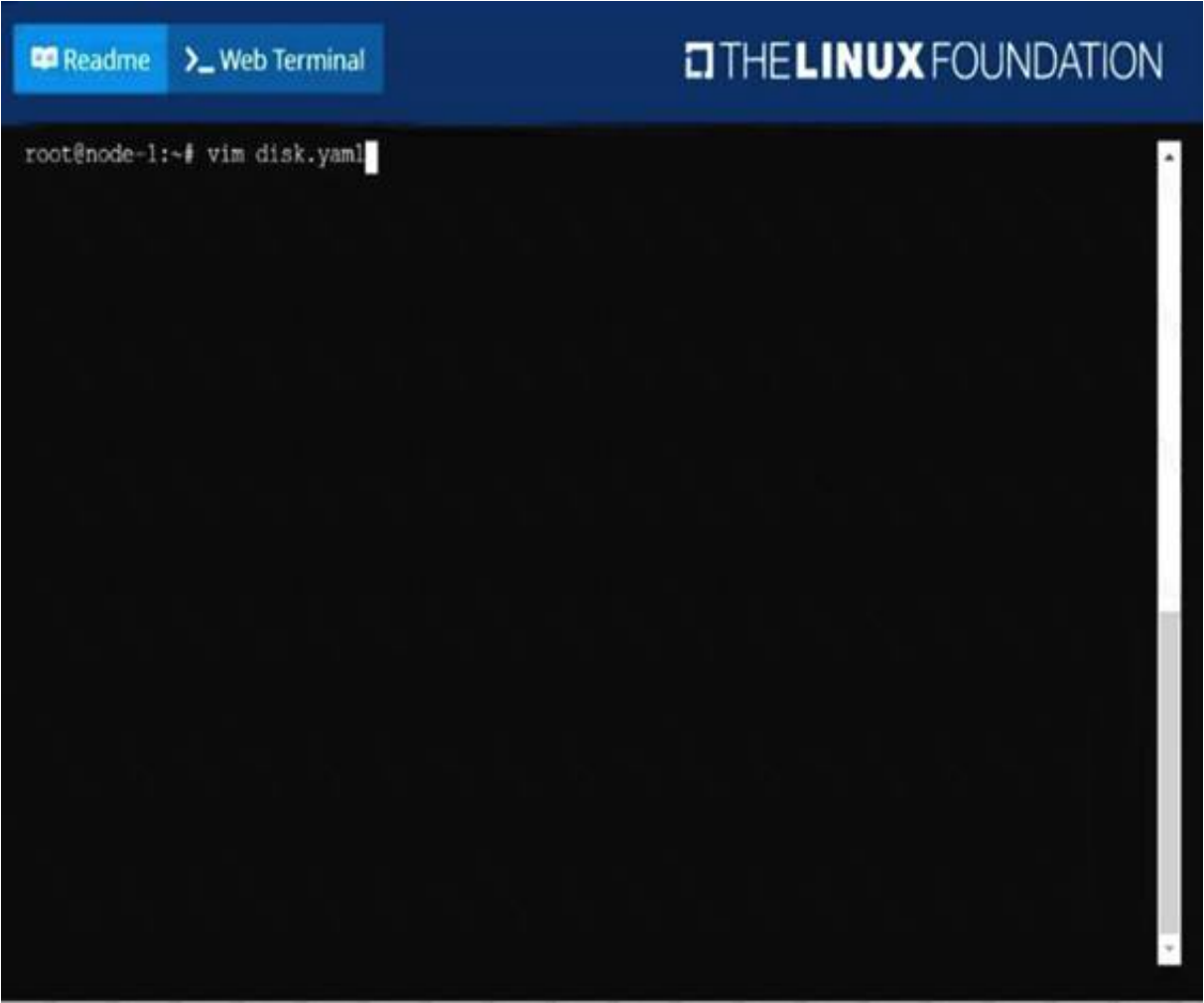
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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

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



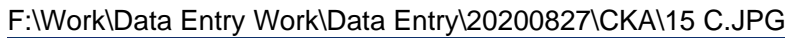
- A. Mastered
B. Not Mastered

Answer: A

Explanation:

solution

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