

## Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

<https://www.2passeasy.com/dumps/CKA/>



## NEW QUESTION 1

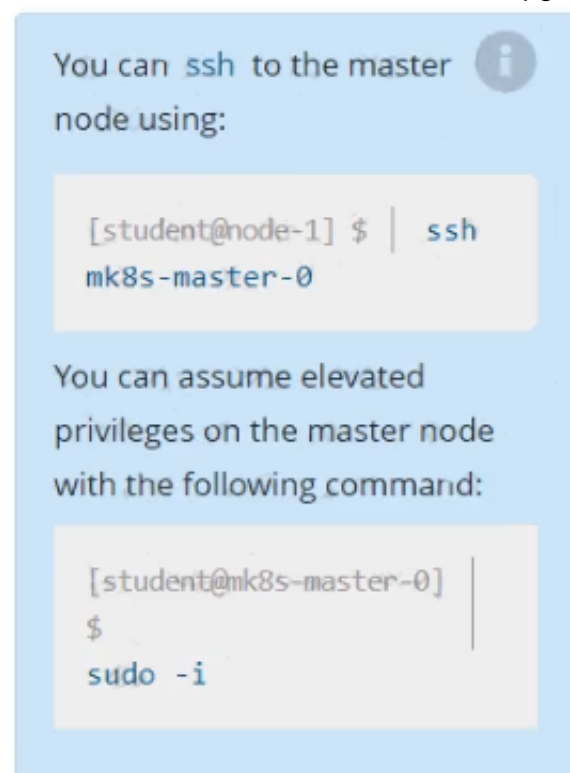
Score: 7%



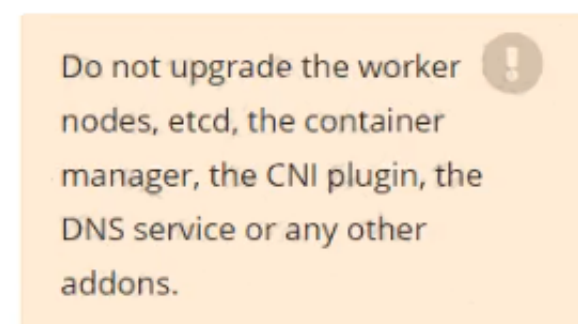
Task

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



- 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 2

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 3

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 4

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.

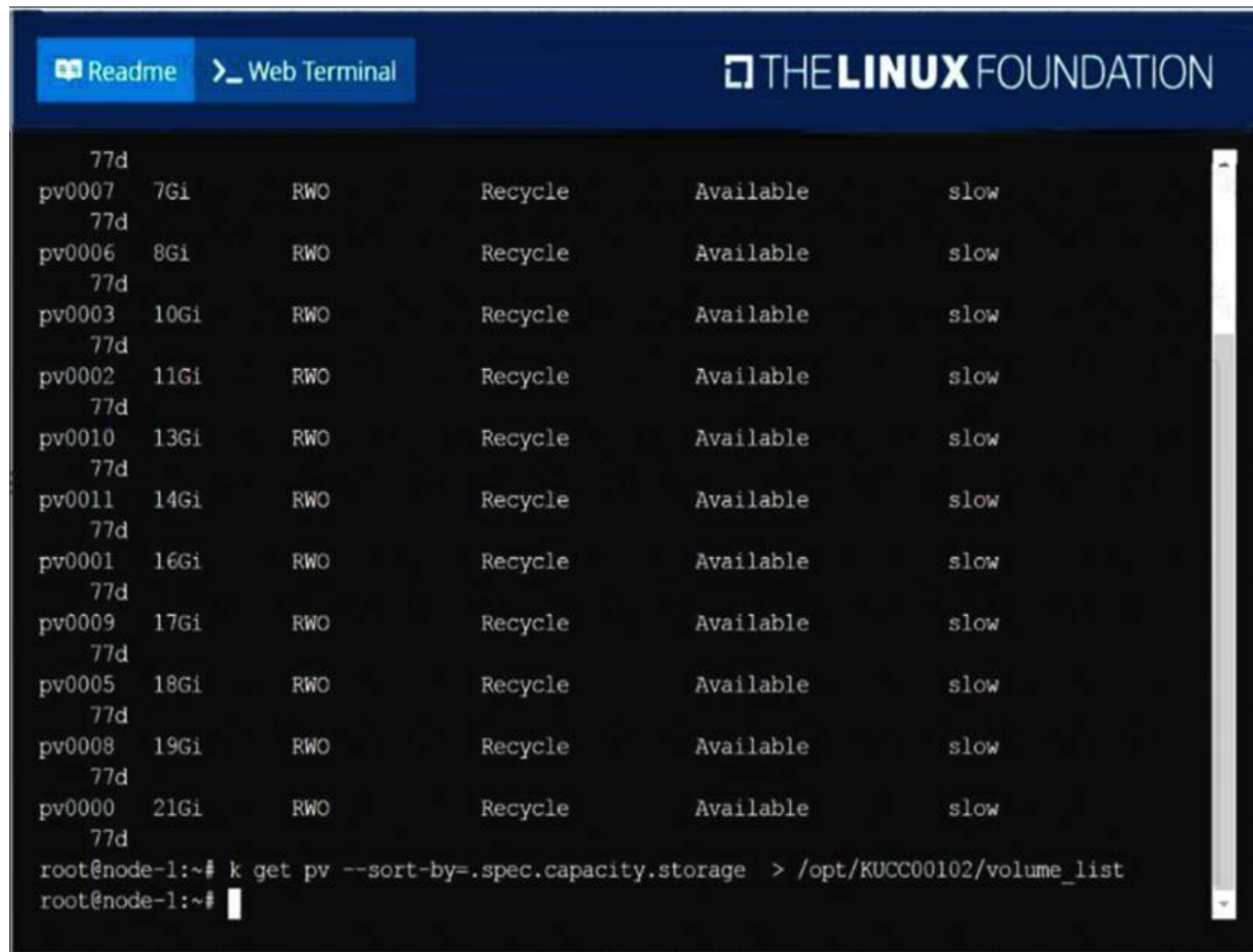
- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution

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**NEW QUESTION 5**  
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 6**  
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 7

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 8

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 9

Score: 5%



Task

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/KUTR00401/KUTR00401.txt (which already exists).

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Solution:

kubectl top -l name=cpu-user -A

echo 'pod name' >> /opt/KUT00401/KUT00401.txt

#### NEW QUESTION 10

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.

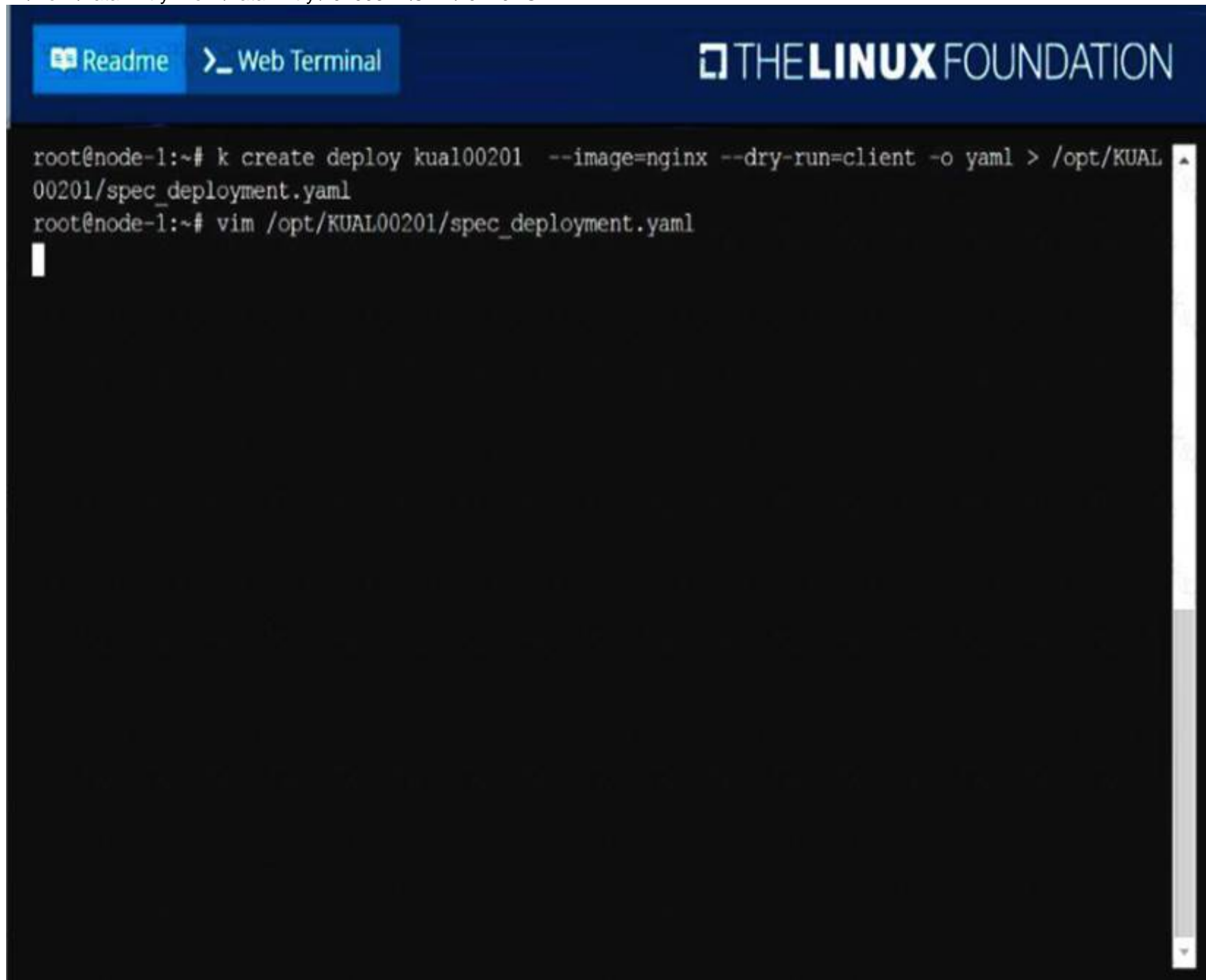
- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

solution

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The screenshot shows a web terminal interface with a dark blue header. On the left, there are two buttons: 'Readme' and 'Web Terminal'. On the right, the 'THE LINUX FOUNDATION' logo is displayed. The terminal window shows a root user at a node-1 prompt. The first command executed is 'k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL00201/spec\_deployment.yaml'. The second command is 'vim /opt/KUAL00201/spec\_deployment.yaml', which opens a vim editor showing a blank file with a cursor at the top left.

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

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Readme

Web Terminal

THE LINUX FOUNDATION

```
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
```

#### NEW QUESTION 10

Create a pod as follows:

- > Name: mongo
- > Using Image: mongo
- > In a new Kubernetes namespace named: my-website

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution

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Readme
Web Terminal

```

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 15

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 19

Check to see how many worker nodes are ready (not including nodes tainted NoSchedule) and write the number to /opt/KUCC00104/kucc00104.txt.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

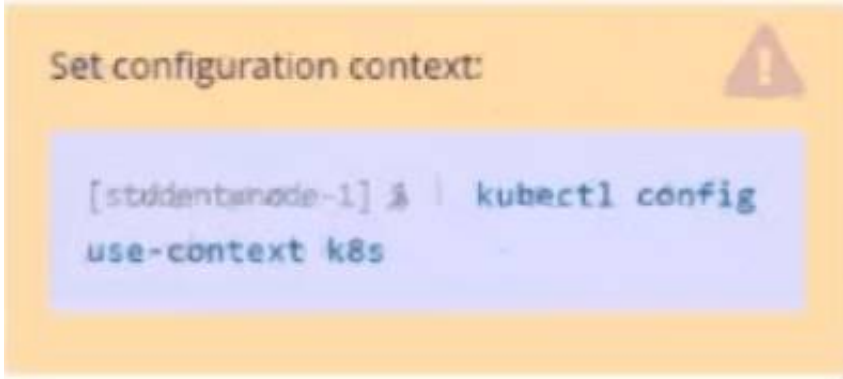
solution  
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NEW QUESTION 23  
Task Weight: 4%



- 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



Text Description automatically generated

```
student@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
student@node-1:~$ kubectl run kuccl --image=nginx --dry-run=client -o yaml > aa.yaml
student@node-1:~$ vim aa.yaml
student@node-1:~$ kubectl create -f aa.yaml
pod/kuccl 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
kuccl                               0/2     ContainerCreating   0           3s
nginx-kusc00401                     1/1     Running             0           2m28s
webserver-84c89dfd75-2dljn          1/1     Running             0           6h38m
webserver-84c89dfd75-8d8x2          1/1     Running             0           6h38m
webserver-84c89dfd75-z5zz4          1/1     Running             0           3m51s
student@node-1:~$
```

NEW QUESTION 28

Get list of all the pods showing name and namespace with a jsonpath expression.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 31

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[0].image}'

NEW QUESTION 32

Create a pod as follows:

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

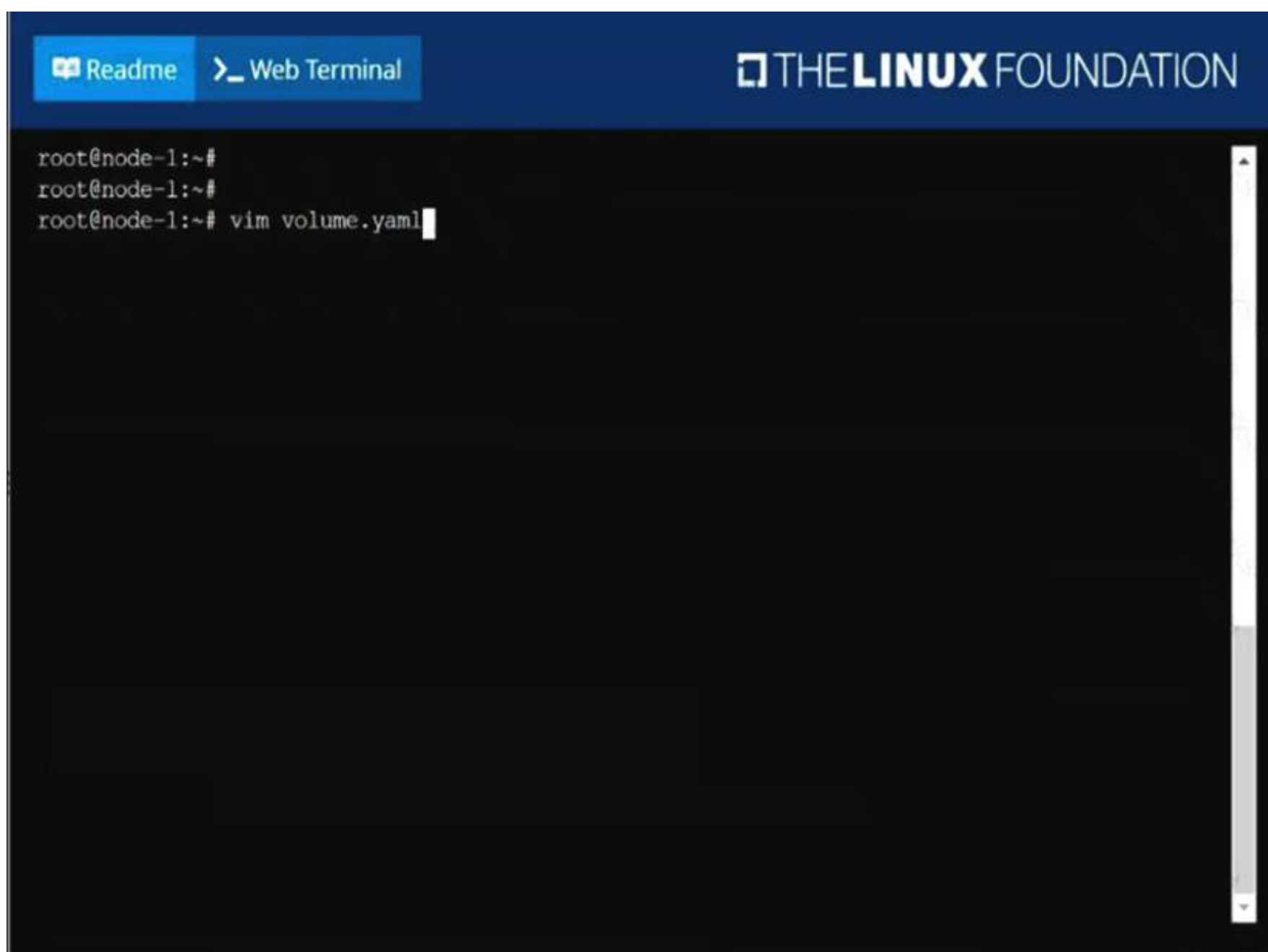
The pod should launch in the staging namespace and the volume must not be persistent.

- A. Mastered
- B. Not Mastered

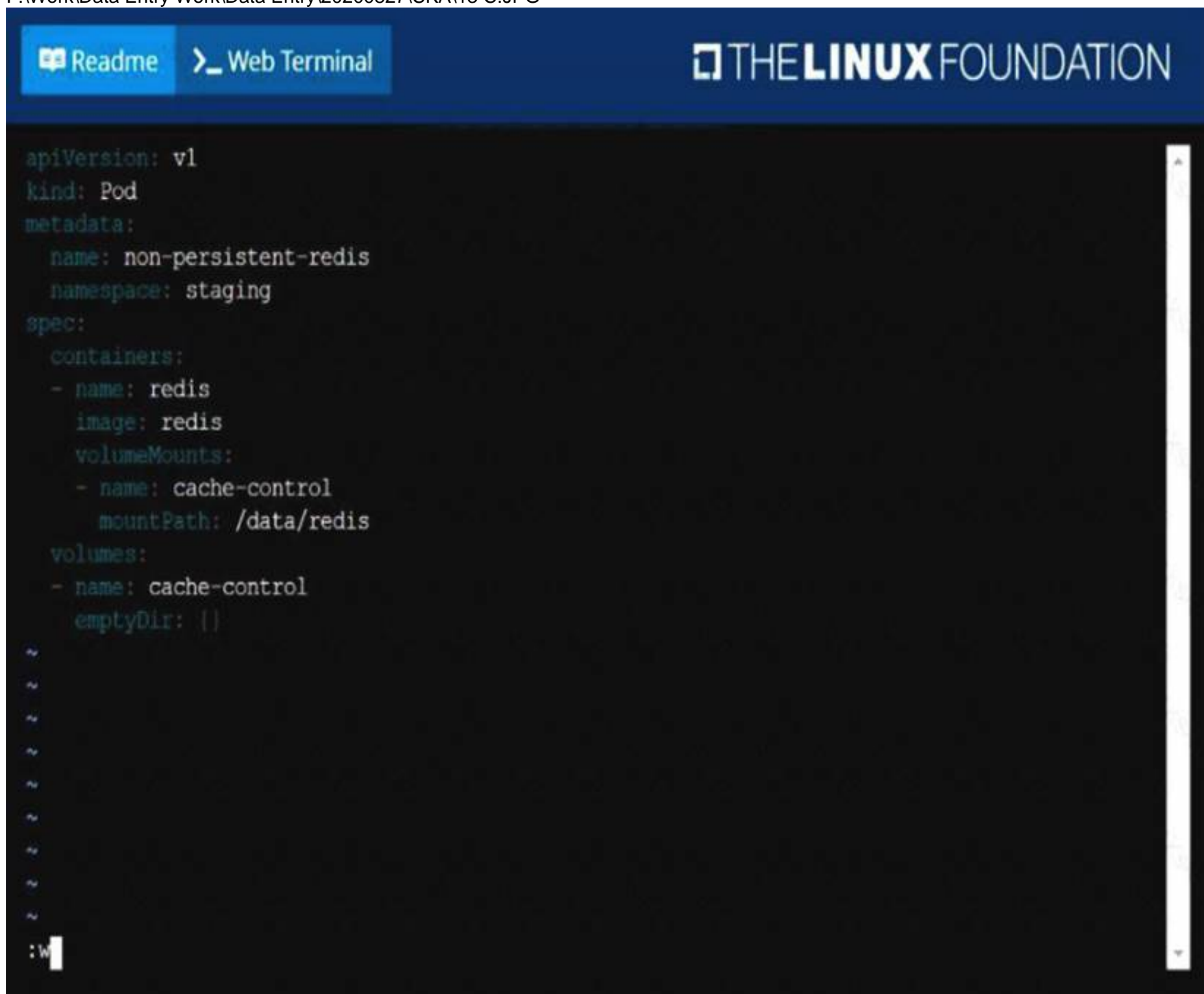
Answer: A

Explanation:

solution  
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Readme
Web Terminal



```

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 37

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 40

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 45

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'
```



kubect! get po # You shouldn't see pod with the name "busybox"

#### NEW QUESTION 49

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.

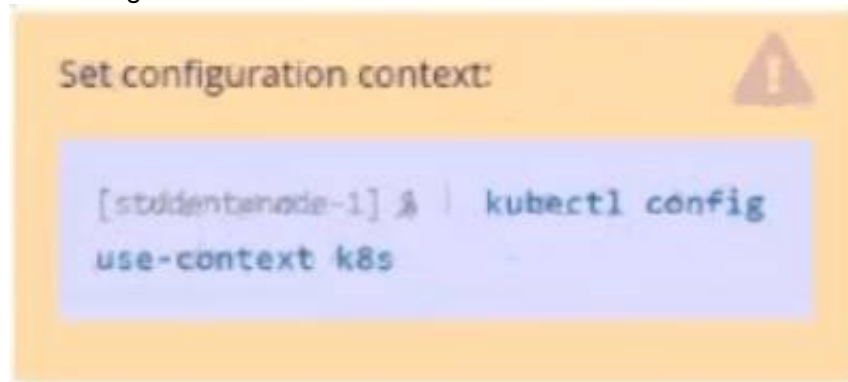
You may use any CNI plugin to complete this task, but if you don't have your favourite CNI plugin's manifest URL at hand, Calico is one popular option:

<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 51

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 55

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

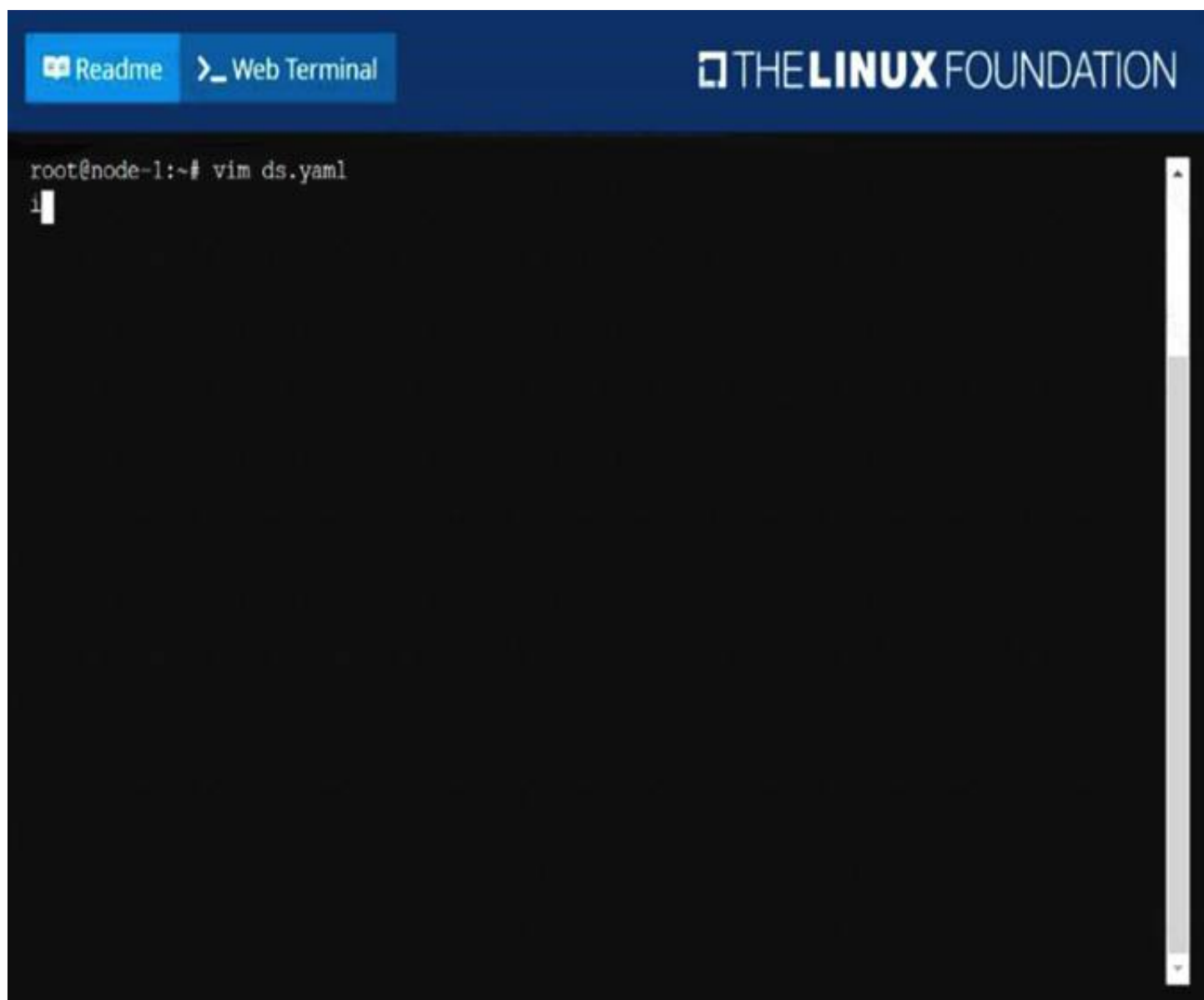
**Answer:** A

**Explanation:**

solution

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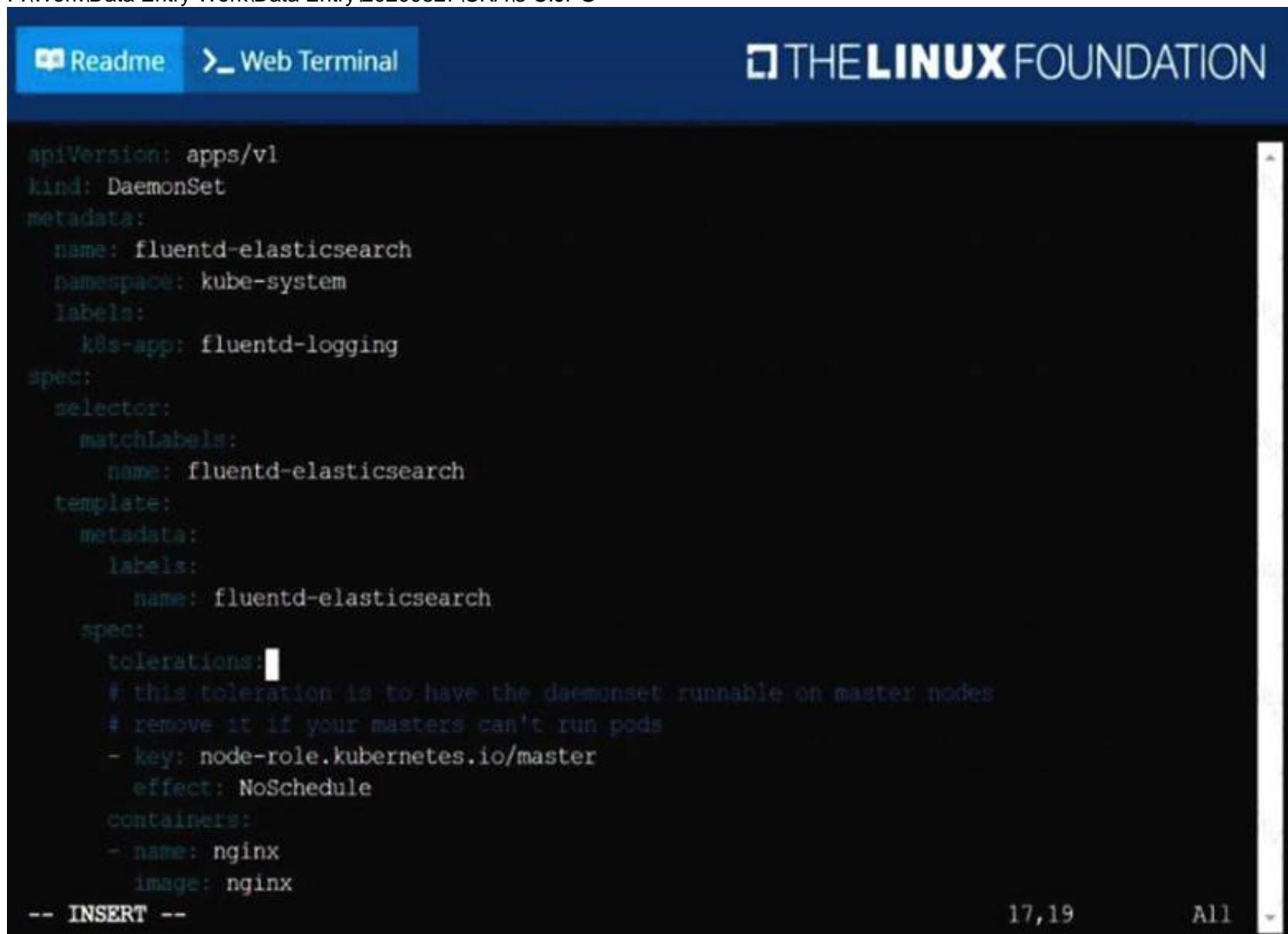




The screenshot shows a web terminal interface with a dark blue header. On the left, there are two buttons: 'Readme' and 'Web Terminal'. On the right, the 'THE LINUX FOUNDATION' logo is displayed. The main area is a terminal window with a black background. The prompt is 'root@node-1:~#'. The user has entered 'vim ds.yaml'. The vim editor is in insert mode, indicated by a 'i' at the start of the line. A vertical scrollbar is visible on the right side of the terminal window.

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

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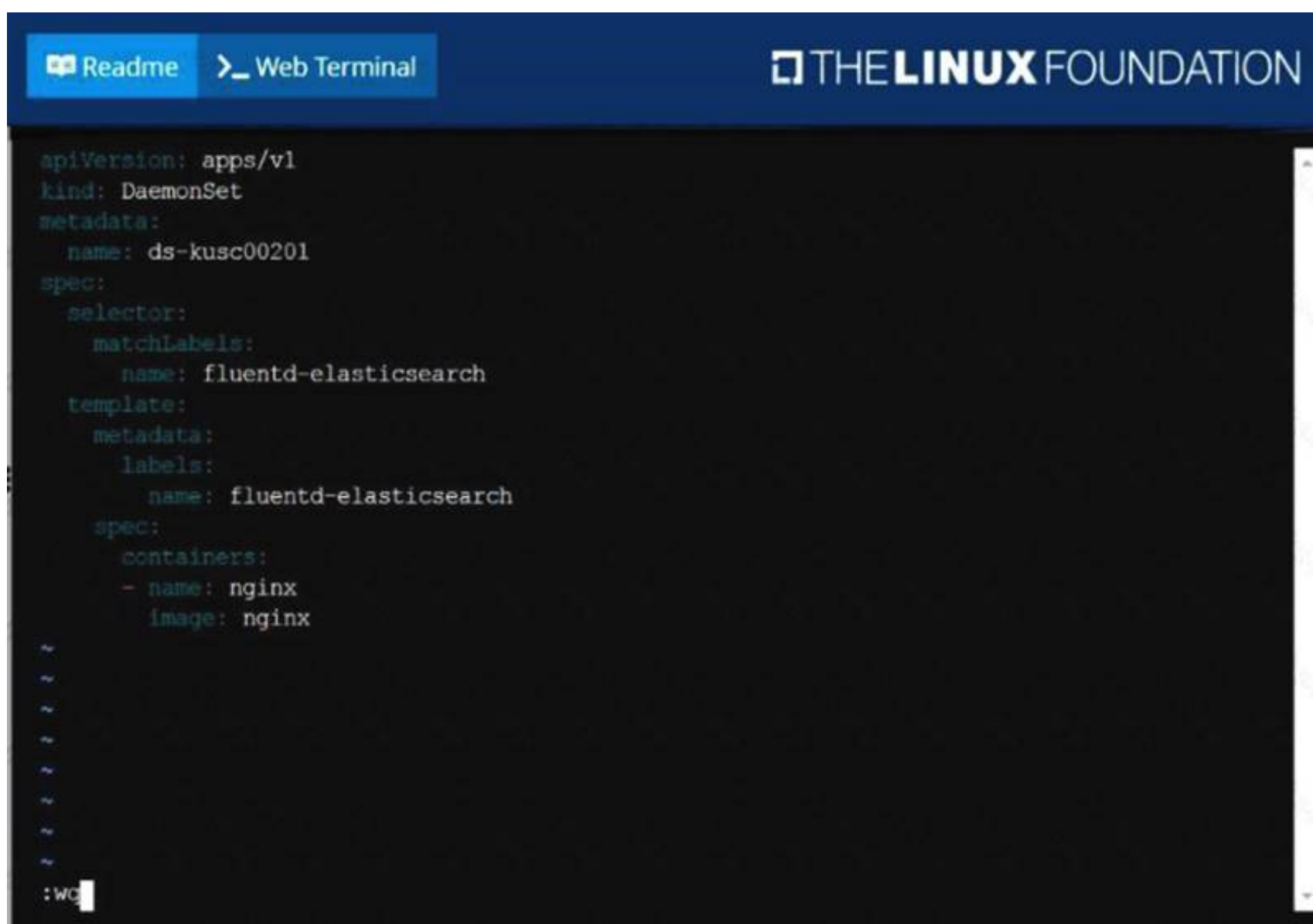
The screenshot shows a web terminal interface similar to the one above. The terminal window displays a Kubernetes DaemonSet YAML file. The user is in insert mode, editing the 'tolerations' section. The YAML content is as follows:

```
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
```

The terminal shows the user is in insert mode, with a cursor at the end of the 'tolerations' section. The bottom of the terminal window shows '-- INSERT --' and line numbers '17,19' and 'All'.

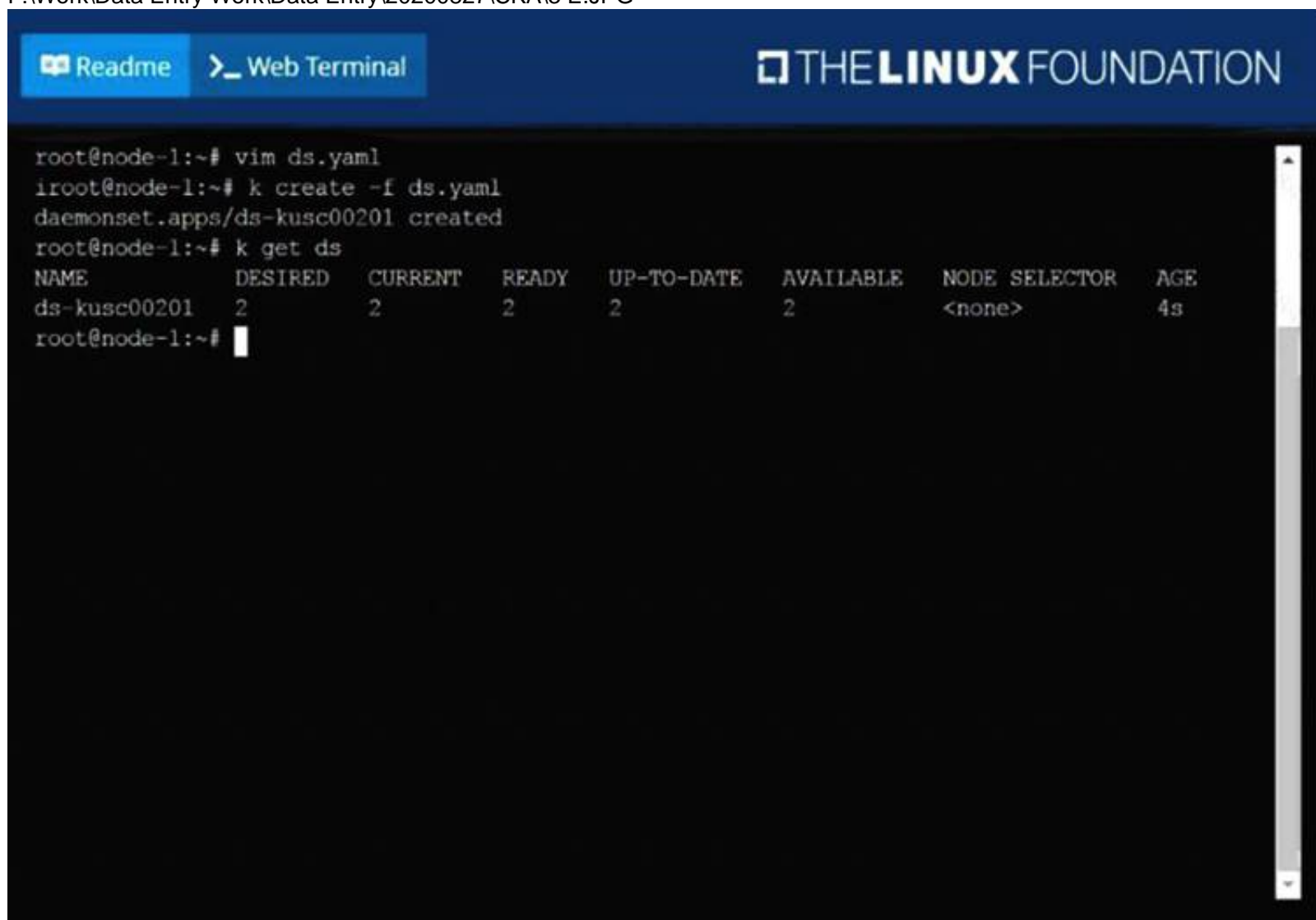
```
-- INSERT --
```

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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
~
~
~
~
~
~
~
~
~
~
:WG
```

F:\Work\Data Entry Work\Data Entry\20200827\CKA\3 E.JPG



```
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:~#
```

**NEW QUESTION 58**

List all the pods sorted by created timestamp

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

**NEW QUESTION 63**

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

kubect1 run nginx --image=nginx --restart=Never --port=80

#### NEW QUESTION 65

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 70

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