

CKA Dumps

Certified Kubernetes Administrator (CKA) Program

<https://www.certleader.com/CKA-dumps.html>



NEW QUESTION 1

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:

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

NEW QUESTION 2

Create a deployment spec file thatwill:

- > Launch 7 replicas of thenginxImage 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 thatyou produced during this task.

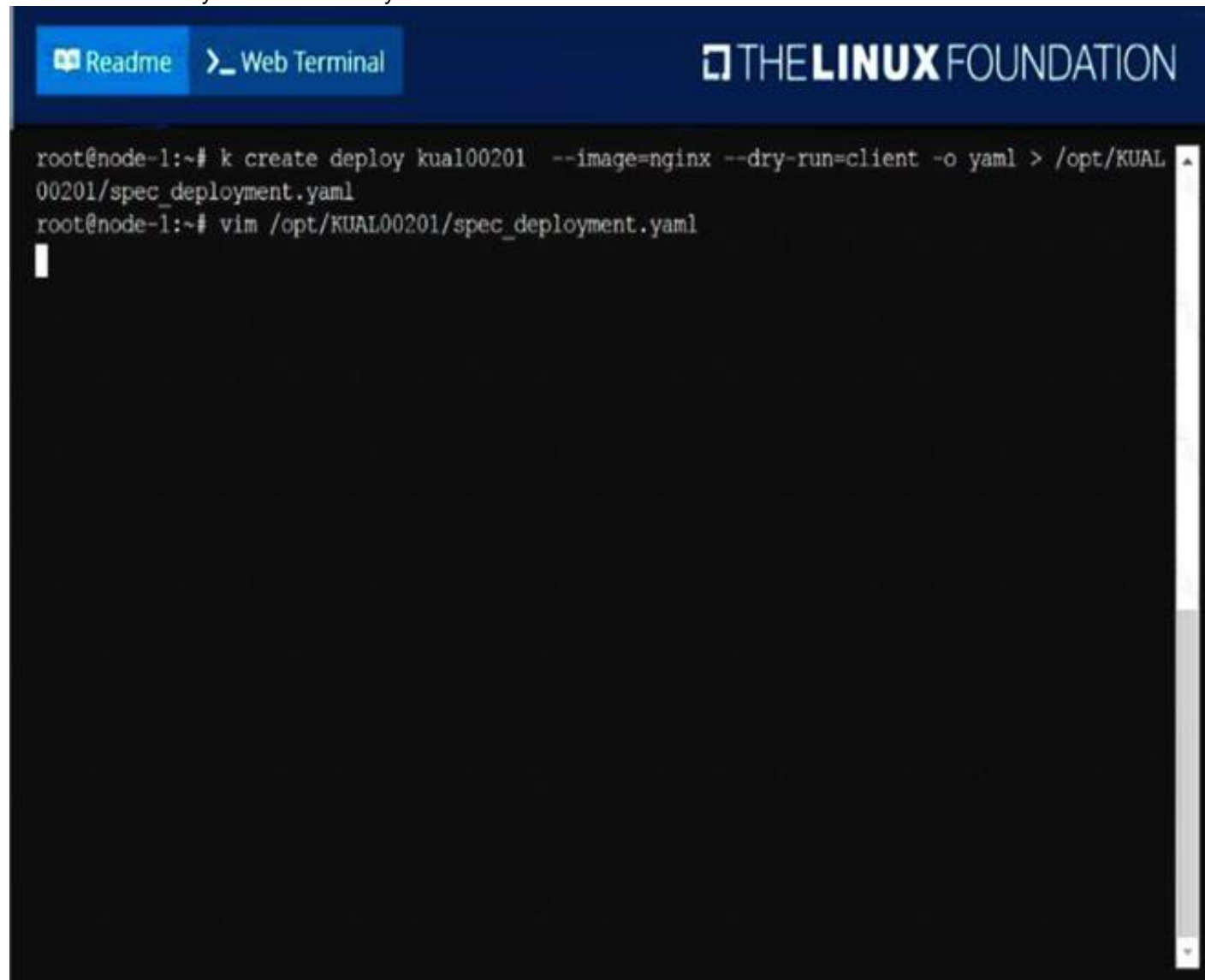
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

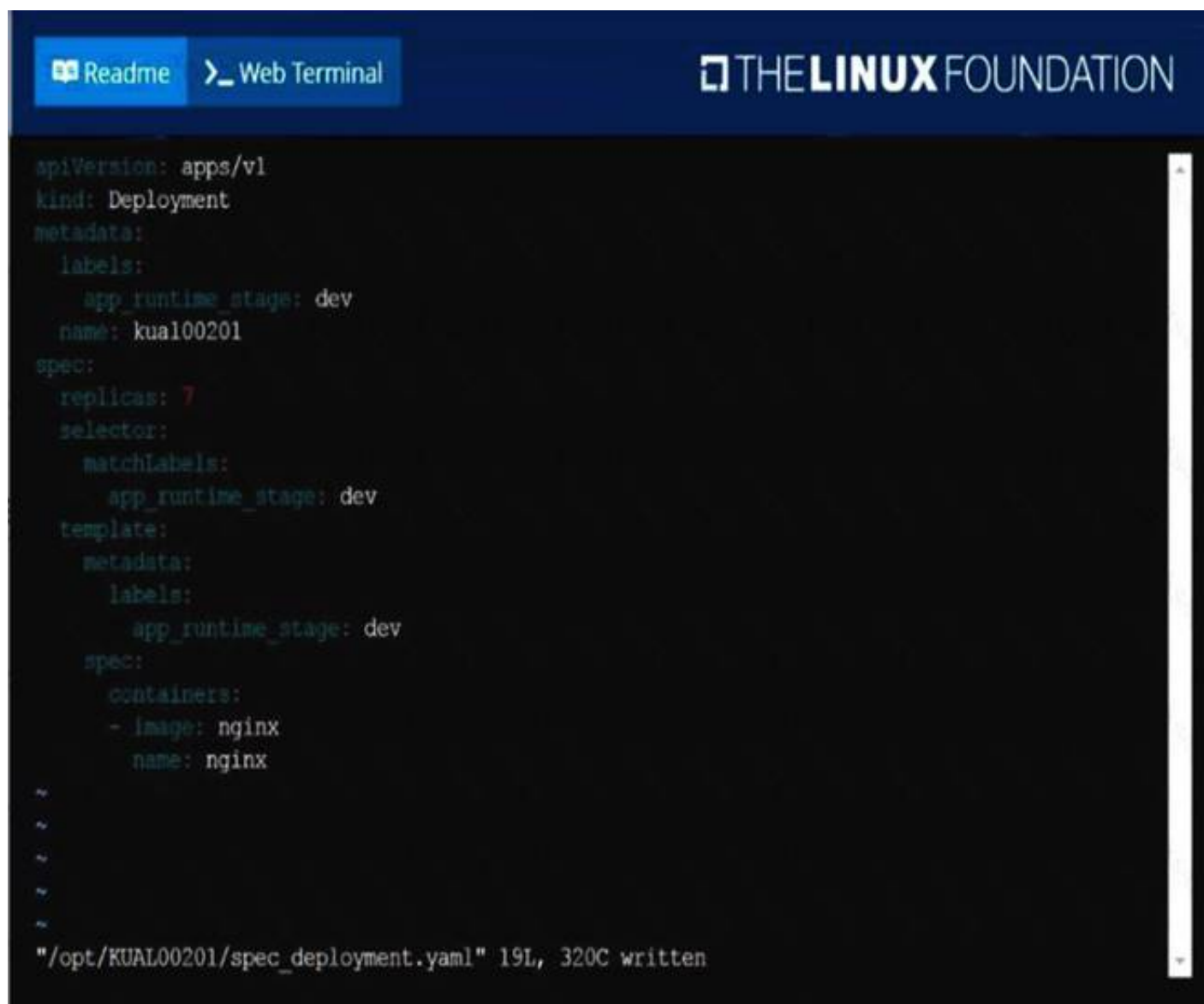
solution

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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 user enters the command 'k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL00201/spec_deployment.yaml'. The prompt then changes to 'root@node-1:~#'. The user enters the command 'vim /opt/KUAL00201/spec_deployment.yaml'. The vim editor opens, showing a blank file with a cursor at the first line.

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```
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app_runtime_stage: dev
  name: kua100201
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 3

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 4

Create a pod as follows:

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

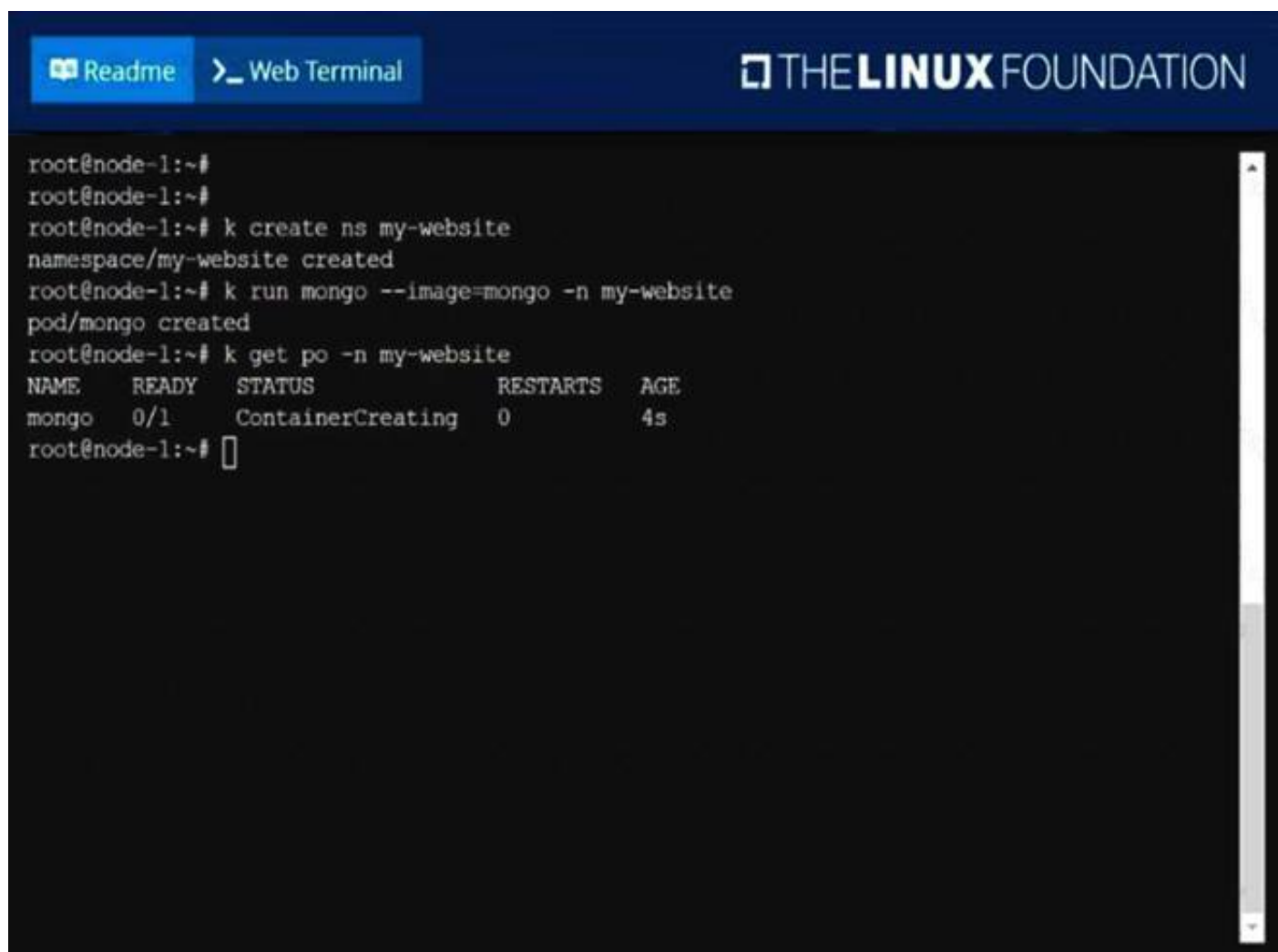
- A. Mastered
- B. Not Mastered

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 5

Set the node named ek8s-node-1 as unavailable and reschedule all the pods running on it.

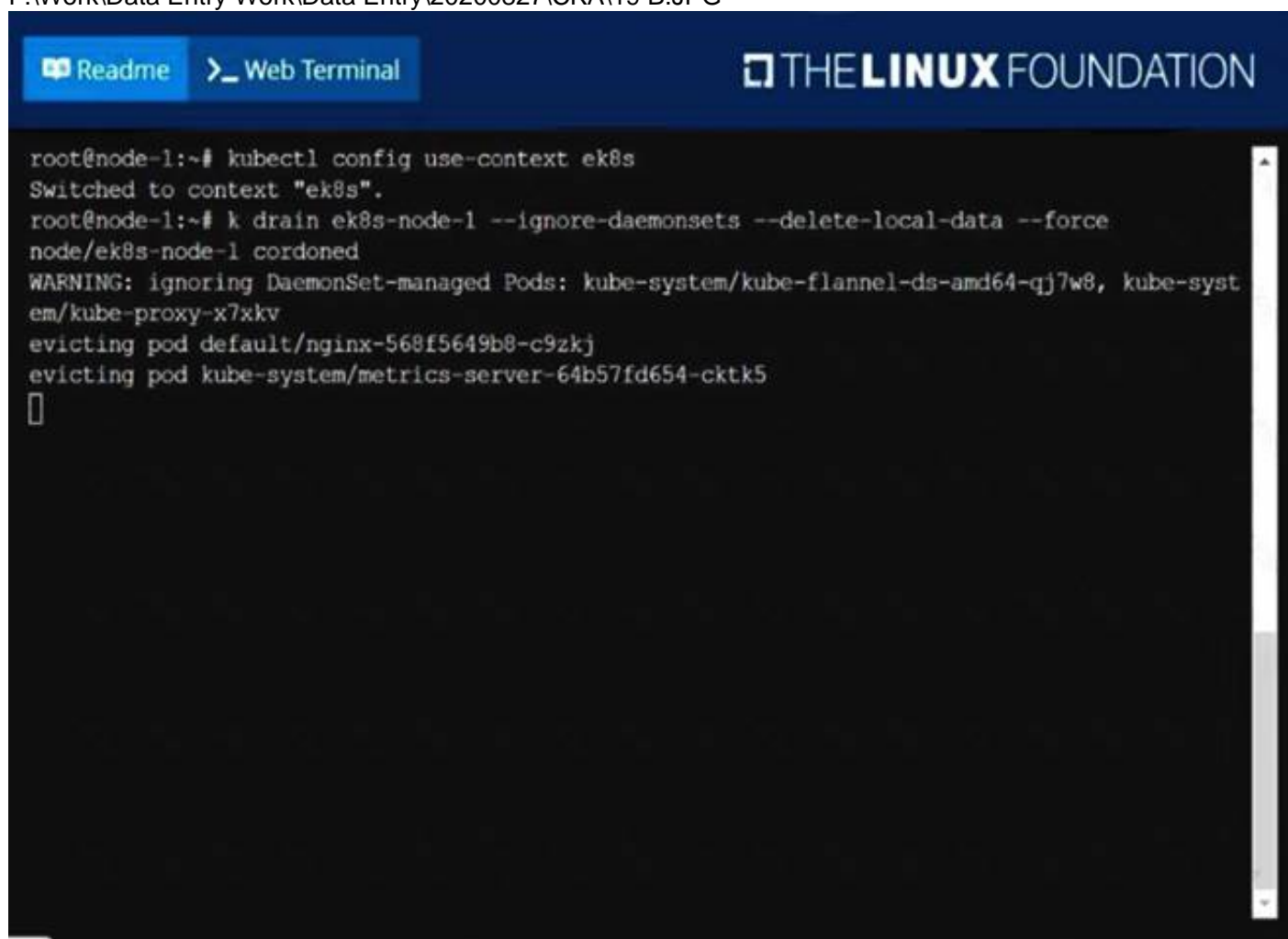
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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```
root@node-1:~# kubectl config use-context ek8s  
Switched to context "ek8s".  
root@node-1:~# k drain ek8s-node-1 --ignore-daemonsets --delete-local-data --force  
node/ek8s-node-1 cordoned  
WARNING: ignoring DaemonSet-managed Pods: kube-system/kube-flannel-ds-amd64-qj7w8, kube-syst  
em/kube-proxy-x7xkv  
evicting pod default/nginx-568f5649b8-c9zkj  
evicting pod kube-system/metrics-server-64b57fd654-cktk5  
[]
```

NEW QUESTION 6

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 7

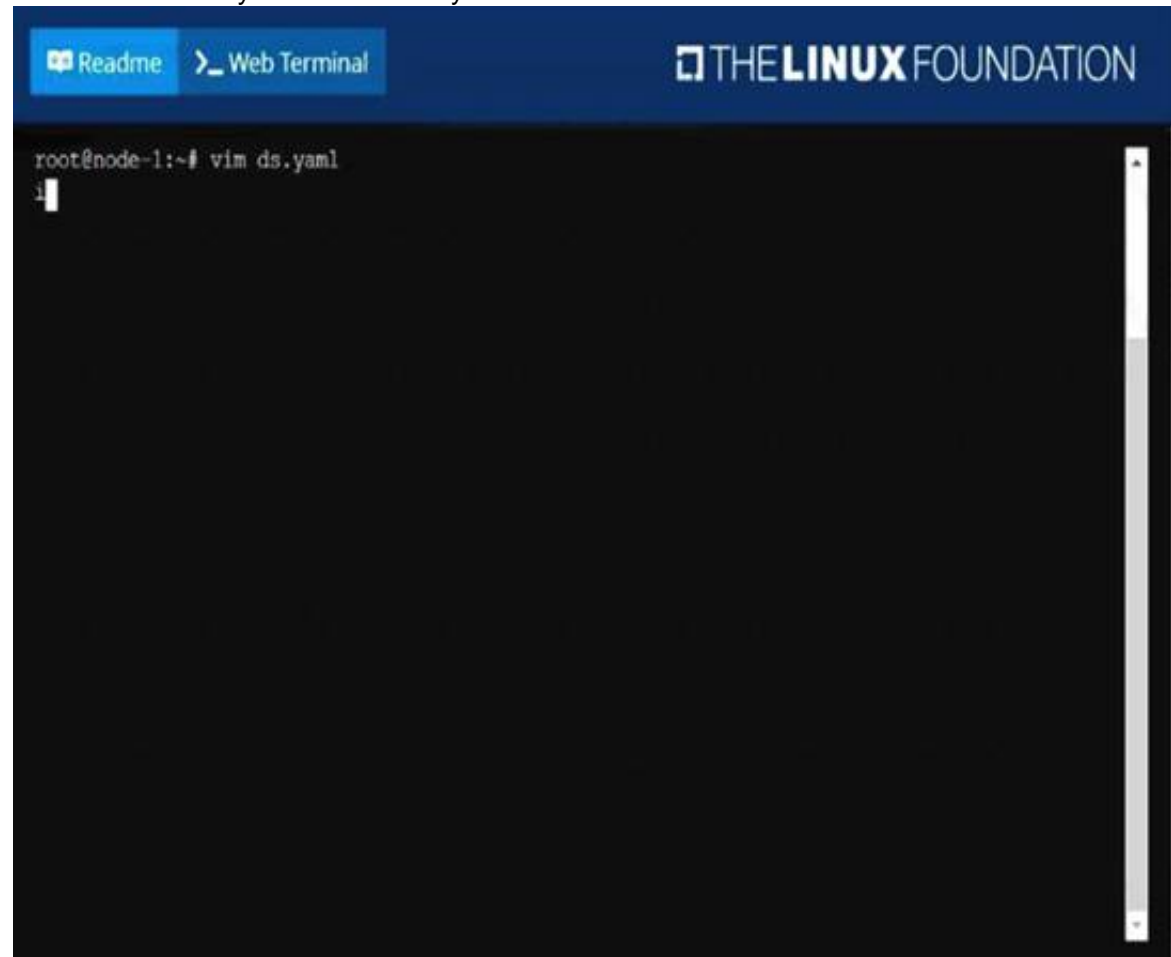
Ensure a single instance of podnginxis running on each node of theKubernetes cluster wherenginxalso represents the Image name whichhas to be used. Do not override anytaints currently in place.
UseDaemonSetto complete thistask and useds-kusc00201asDaemonSet name.

- A. Mastered
- B. Not Mastered

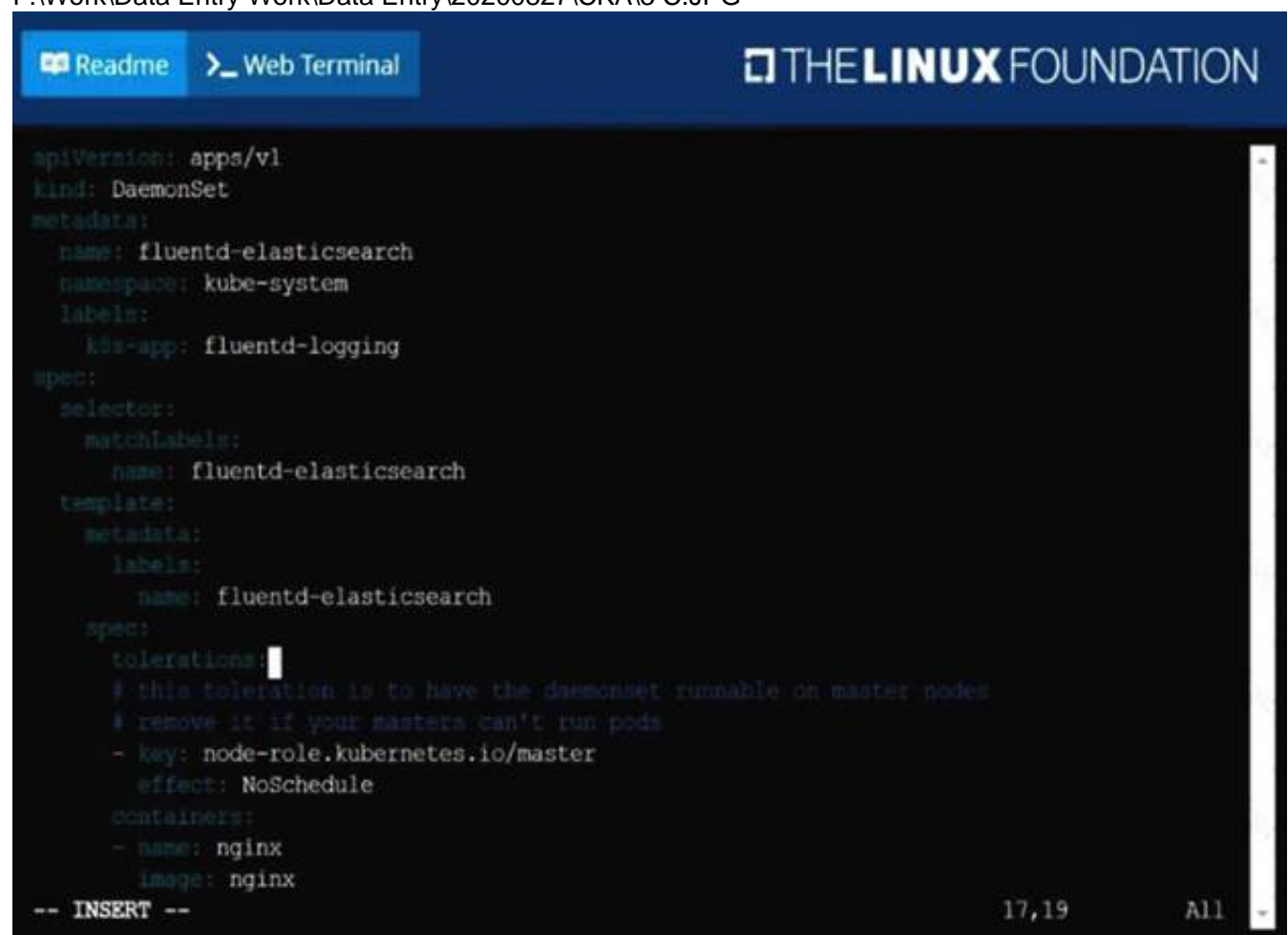
Answer: A

Explanation:

solution
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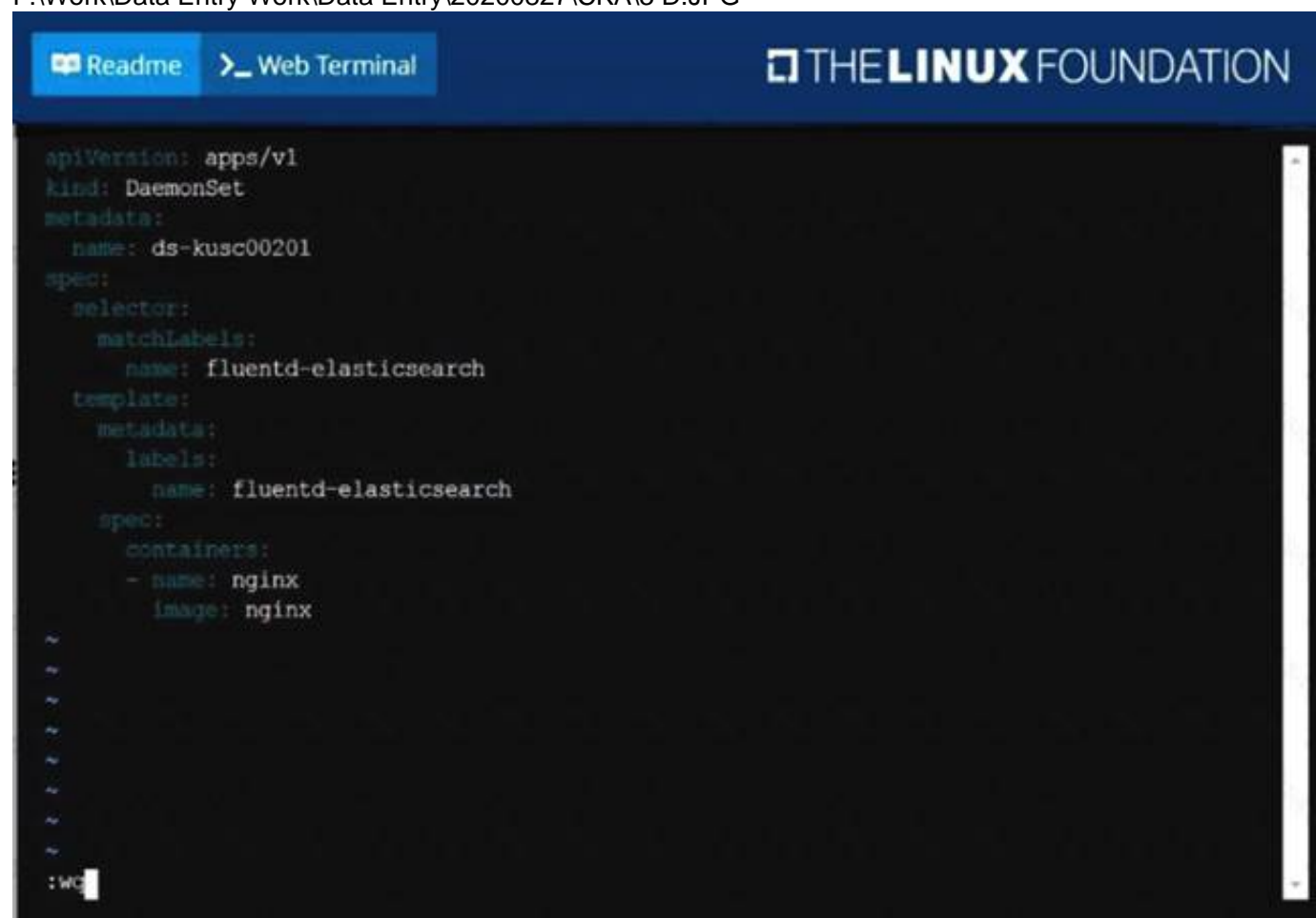
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The screenshot shows a web terminal interface with a dark background. At the top, there is a blue header bar with the text "THE LINUX FOUNDATION" on the right. On the left of the header, there are two buttons: "Readme" and "Web Terminal". The main area of the terminal displays a YAML configuration for a Kubernetes DaemonSet. The configuration includes metadata for the DaemonSet and a template for the pods. The template specifies a container named 'nginx' using the 'nginx' image. A comment indicates that a toleration is added to allow the DaemonSet to run on master nodes. The terminal also shows a status bar at the bottom with the text "-- INSERT --", the line numbers "17,19", and the word "All".

```
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 --
```

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The screenshot shows a web terminal interface with a dark background. At the top, there is a blue header bar with the text "THE LINUX FOUNDATION" on the right. On the left of the header, there are two buttons: "Readme" and "Web Terminal". The main area of the terminal displays a YAML configuration for a Kubernetes DaemonSet. The configuration includes metadata for the DaemonSet and a template for the pods. The template specifies a container named 'nginx' using the 'nginx' image. The terminal also shows a status bar at the bottom with the text "-- INSERT --", the line numbers "17,19", and the word "All".

```
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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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:~#
```

NEW QUESTION 8

Create a file:
/opt/KUCC00302/kucc00302.txtthatlists all pods that implement servicebazin namespacedevelopment.
The format of the file should be onepod name per line.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

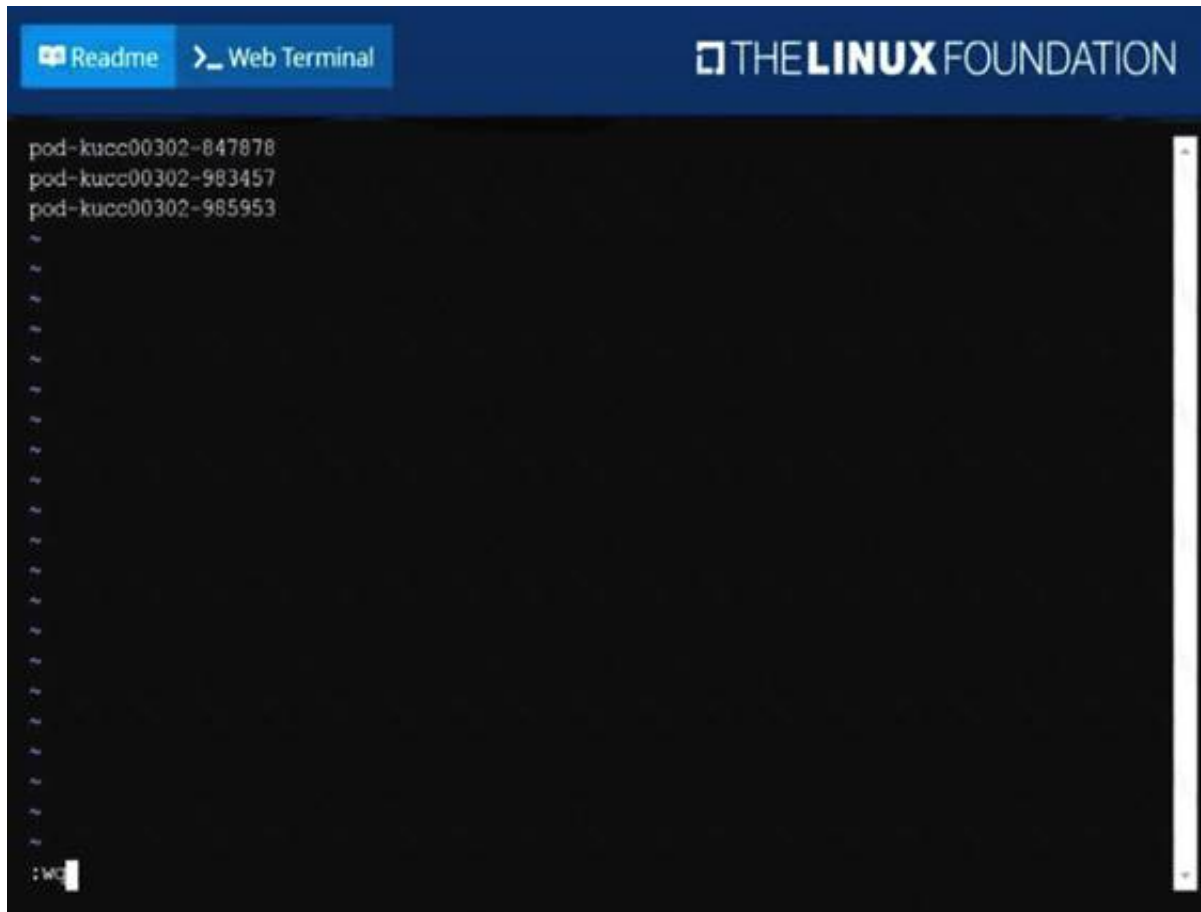
solution
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ReadmeWeb Terminal

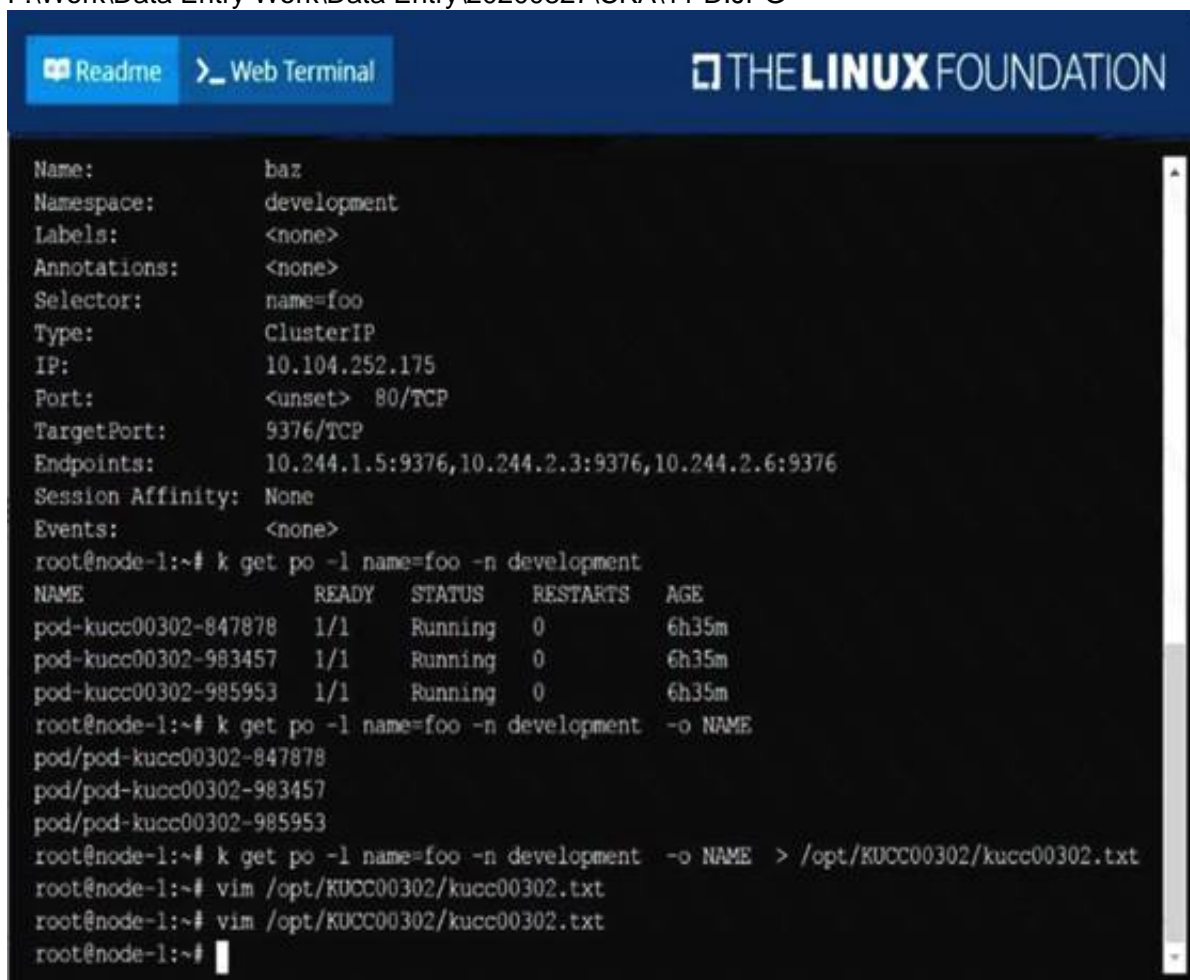
THE LINUX FOUNDATION

```
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 9

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 10

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 10

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 15

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 16

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 17

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 18

Schedule a pod as follows:

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

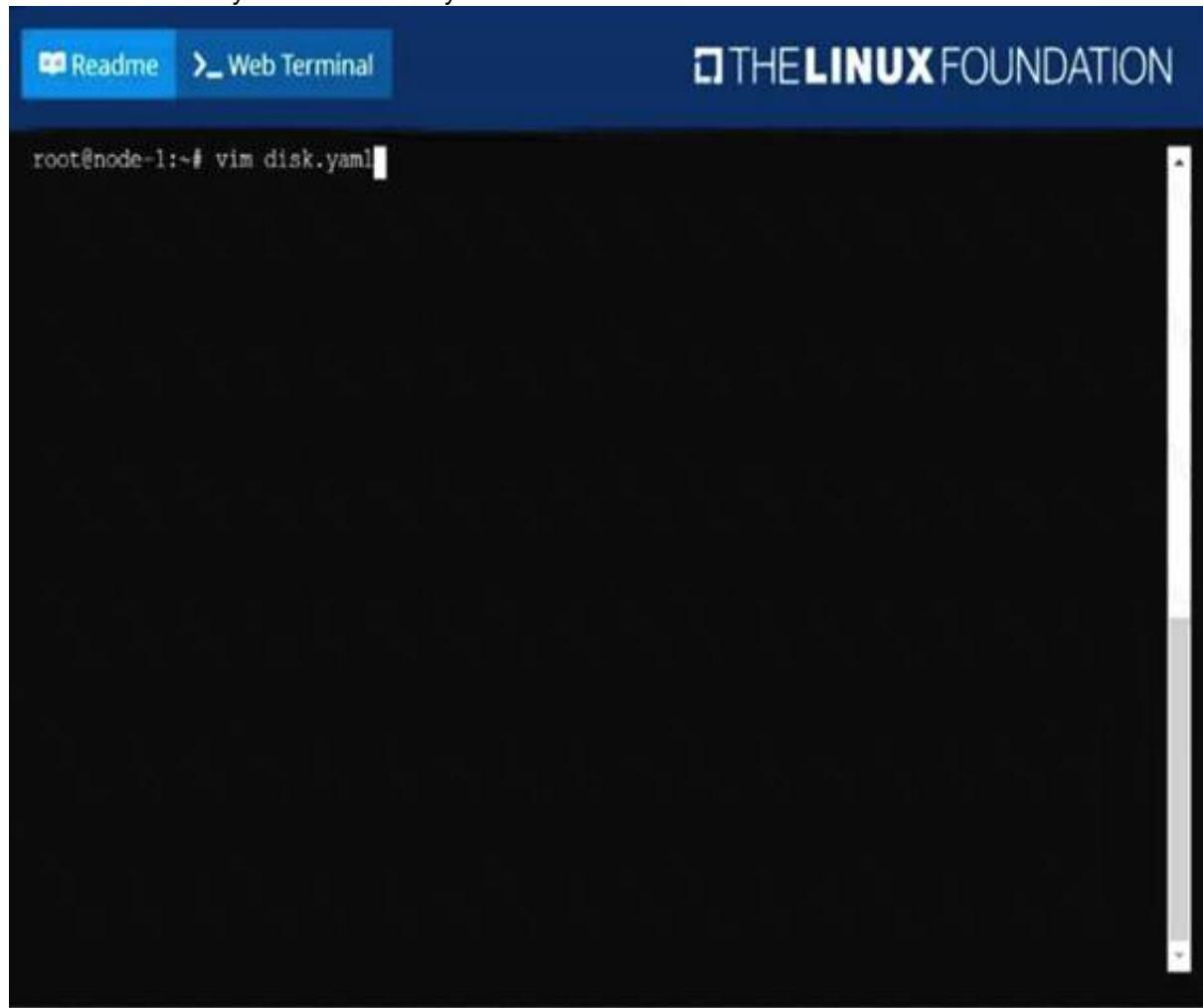
- A. Mastered
B. Not Mastered

Answer: A

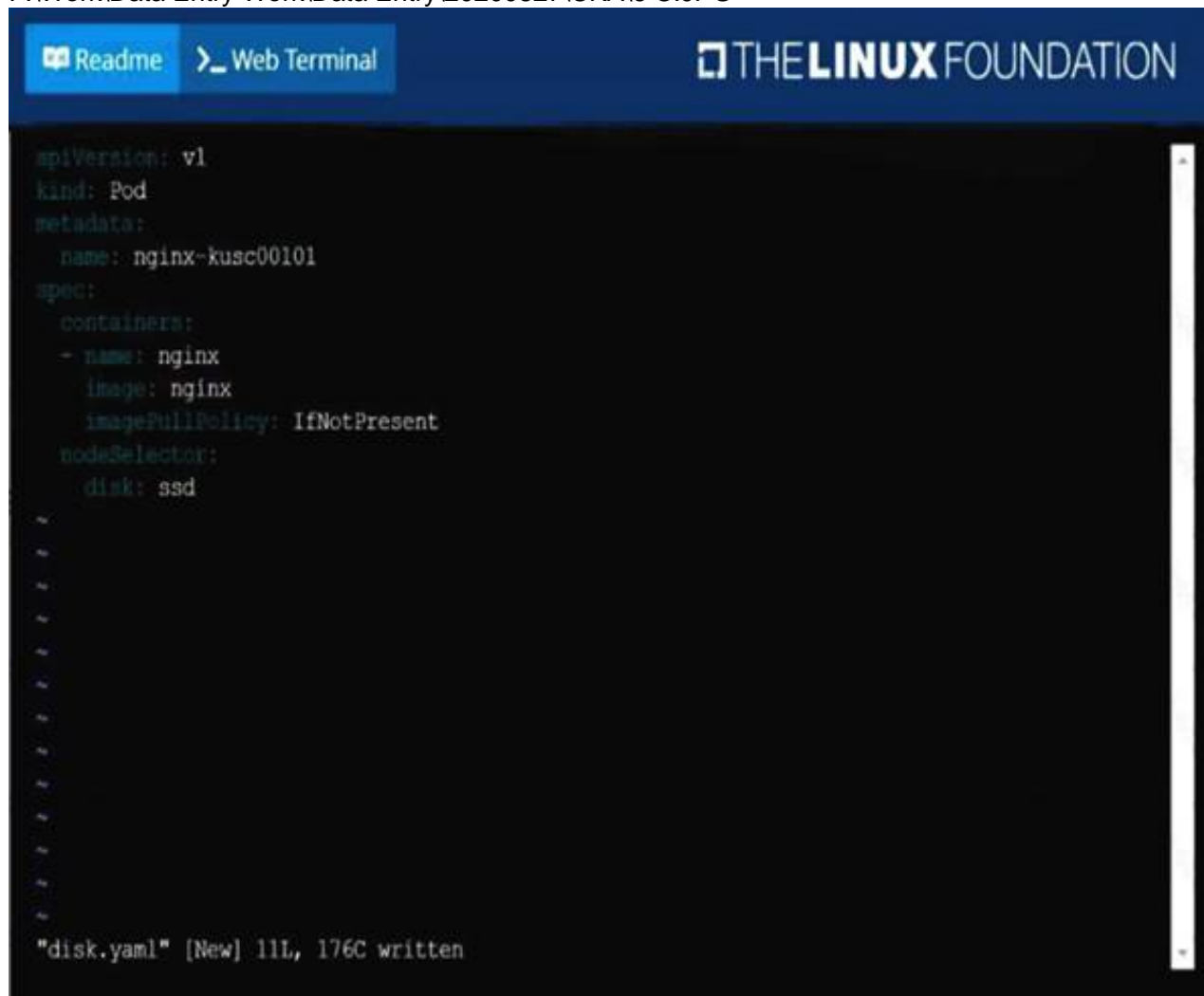
Explanation:

solution

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ReadmeWeb Terminal

THELINUXFOUNDATION

```
root@node-1:~# vim disk.yaml
root@node-1:~# k create -f disk.yaml
pod/nginx-kusc00101 created
root@node-1:~# k get po
NAME                                READY   STATUS    RESTARTS   AGE
cpu-utilizer-98b9se                 1/1     Running   0           5h59m
cpu-utilizer-ab2d3s                 1/1     Running   0           5h59m
cpu-utilizer-kipb9a                 1/1     Running   0           5h59m
ds-kusc00201-2r2k9                  1/1     Running   0           13m
ds-kusc00201-hzm9q                  1/1     Running   0           13m
foo                                  1/1     Running   0           6h1m
front-end                           1/1     Running   0           6h1m
hungry-bear                         1/1     Running   0           9m37s
kucc8                                3/3     Running   0           7m37s
nginx-kusc00101                     1/1     Running   0           9s
webserver-84c55967f4-qzjcv          1/1     Running   0           6h16m
webserver-84c55967f4-t479l          1/1     Running   0           6h16m
root@node-1:~#
```

NEW QUESTION 23

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution
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ReadmeWeb Terminal

THELINUXFOUNDATION

```
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:~#
root@node-1:~# k get nodes
NAME           STATUS    ROLES    AGE   VERSION
k8s-master-0   Ready     master   77d   v1.18.2
k8s-node-0     Ready     <none>   77d   v1.18.2
k8s-node-1     Ready     <none>   77d   v1.18.2
root@node-1:~# vim /opt/KUCC00104/kucc00104.txt
```

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NEW QUESTION 27

.....

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