

## CKA Dumps

### Certified Kubernetes Administrator (CKA) Program

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



**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 pod as follows:

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

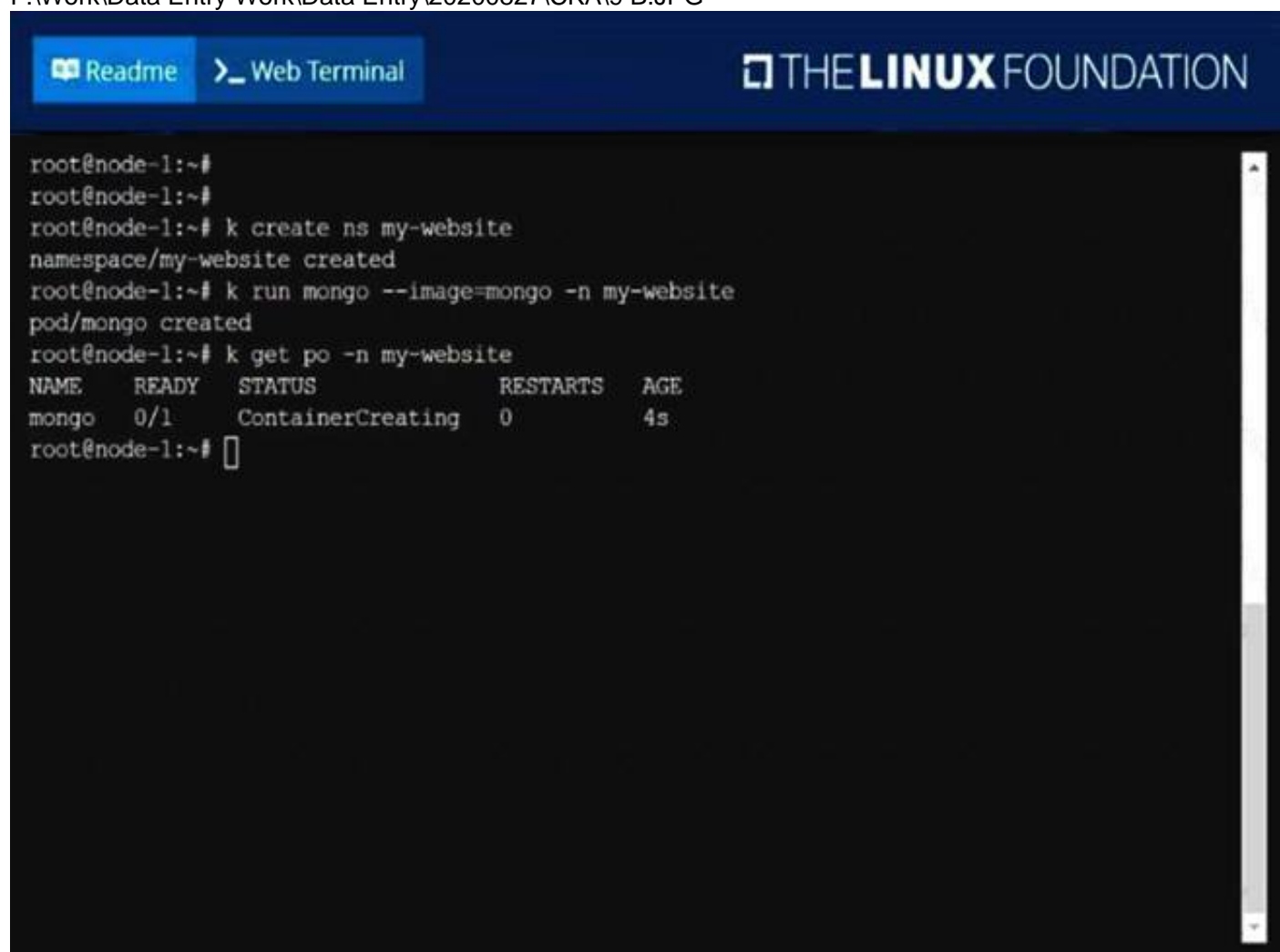
- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution

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The screenshot shows a terminal window with a dark background. At the top, there is a blue header bar with a 'Readme' button, a 'Web Terminal' button, and the 'THE LINUX FOUNDATION' logo. The terminal content shows the following commands and output:

```
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 3**

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.

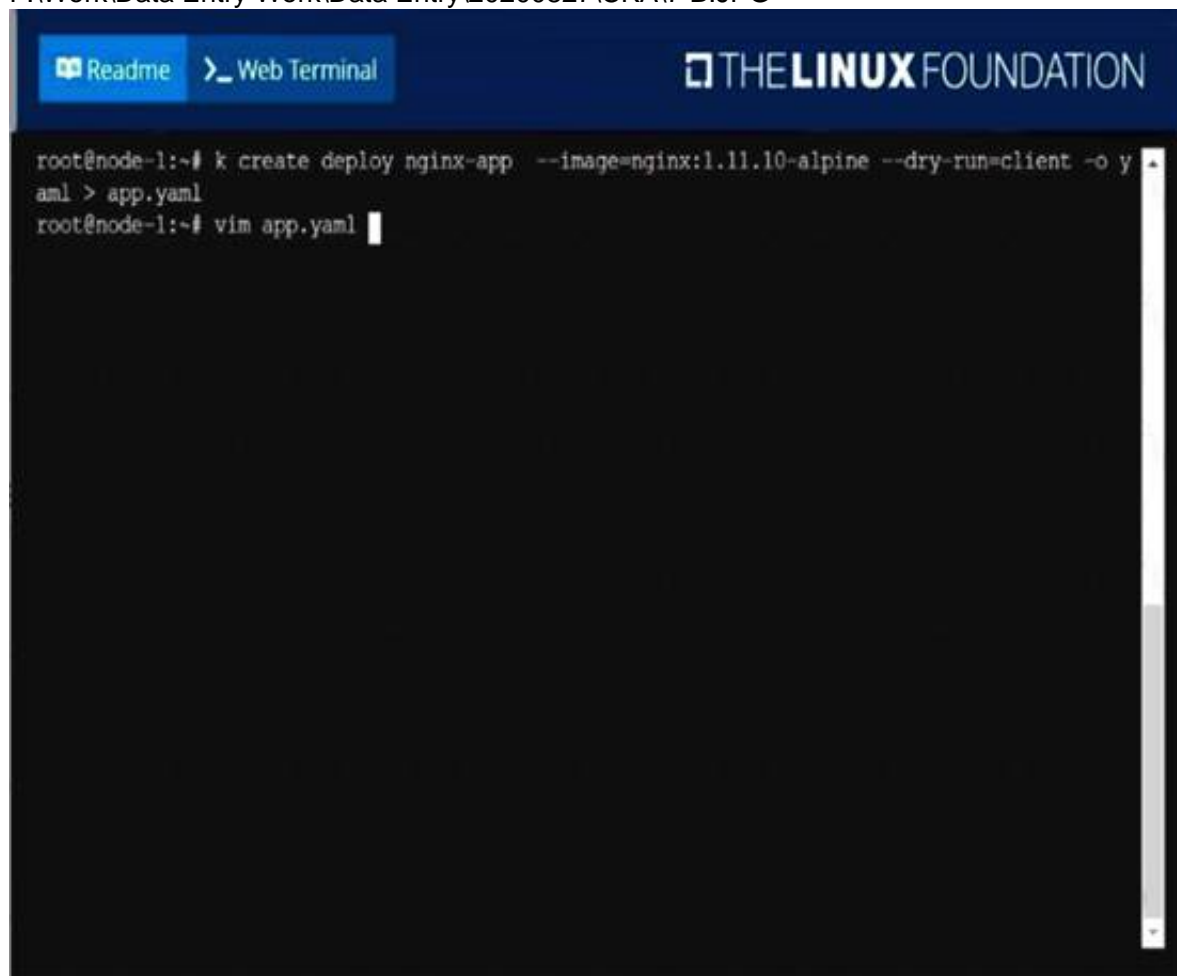
- A. Mastered
- B. Not Mastered

**Answer:** A

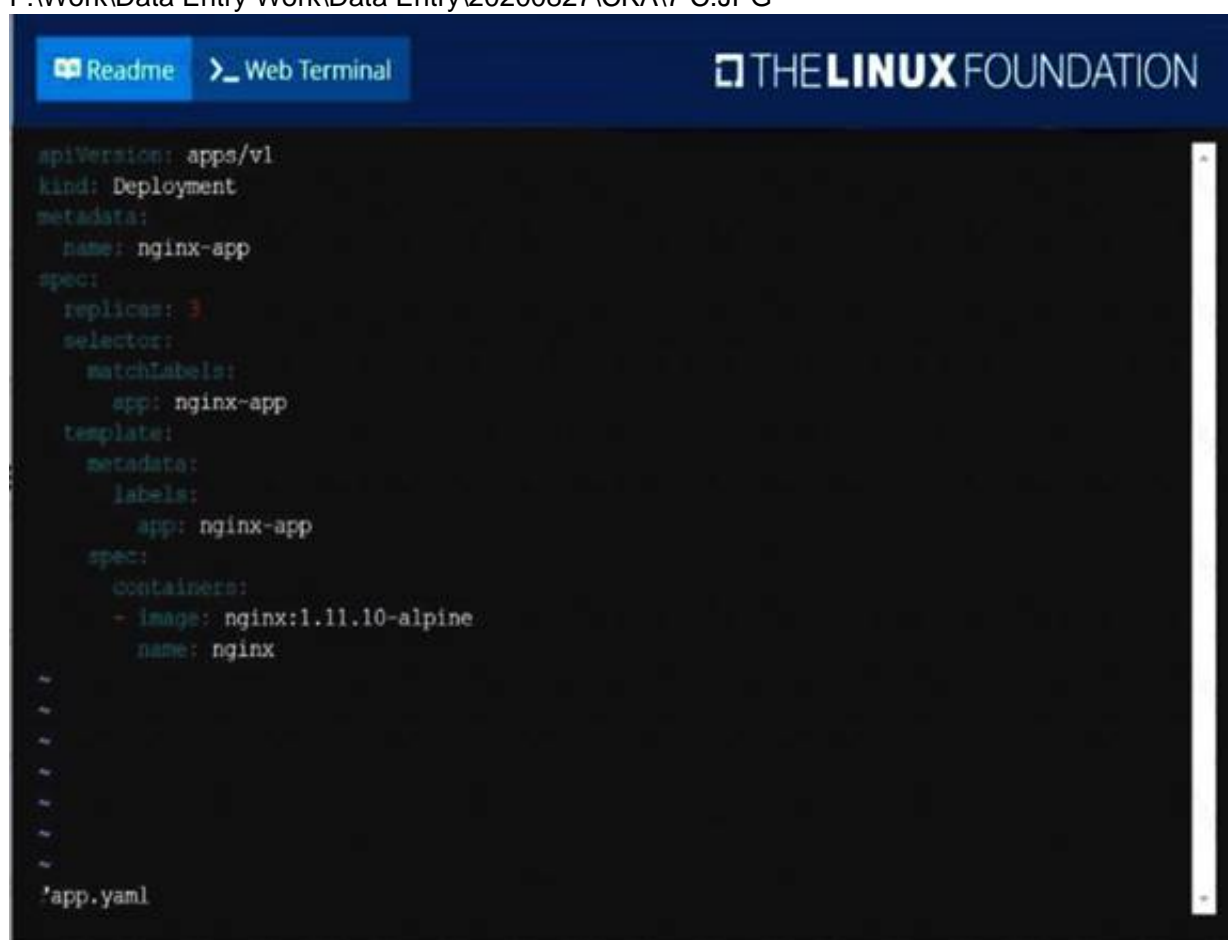
**Explanation:**

solution

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ReadmeWeb Terminal

THE LINUX FOUNDATION

```
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 4

Create a pod namedkucc8with a single 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:

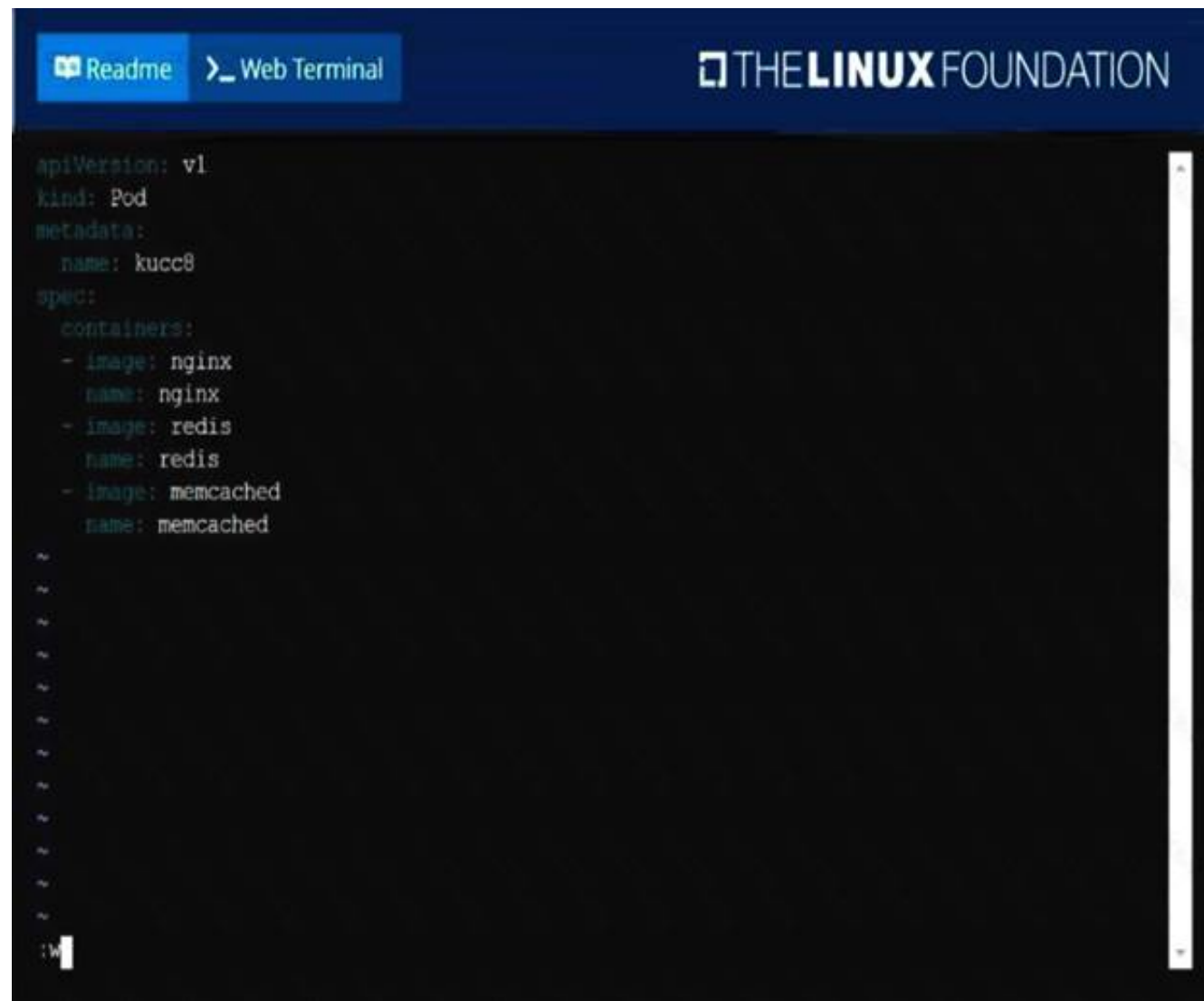
solution  
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ReadmeWeb Terminal

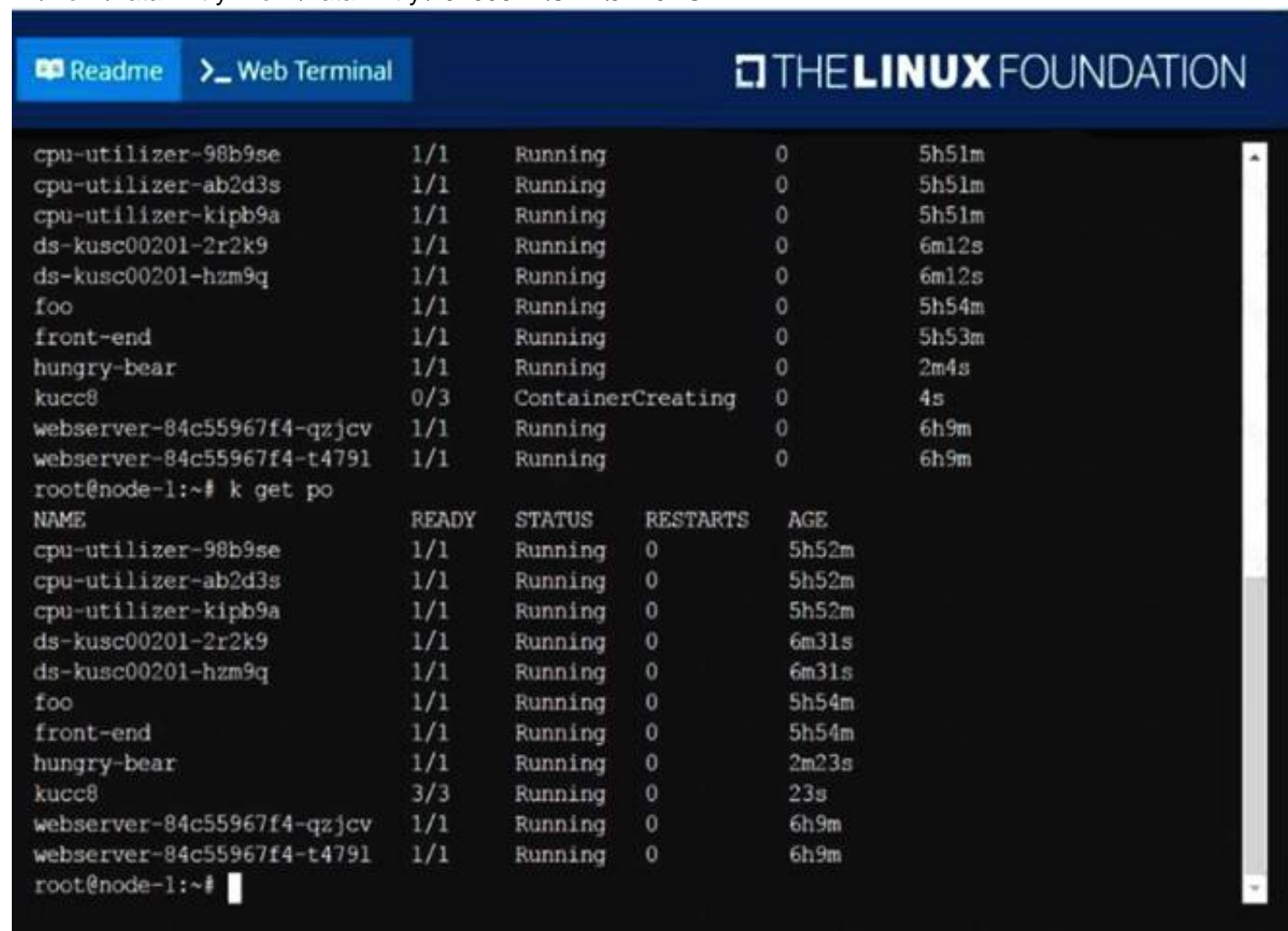
THE LINUX FOUNDATION

```
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:~# 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:~# k get po
NAME          READY  STATUS   RESTARTS  AGE
cpu-utilizer-98b9se  1/1    Running  0         5h50m
cpu-utilizer-ab2d3s  1/1    Running  0         5h50m
cpu-utilizer-kipb9a  1/1    Running  0         5h50m
ds-kusc00201-2r2k9   1/1    Running  0         4m50s
ds-kusc00201-hzm9q   1/1    Running  0         4m50s
foo            1/1    Running  0         5h52m
front-end       1/1    Running  0         5h52m
hungry-bear      1/1    Running  0         42s
webserver-84c55967f4-qzjcv  1/1    Running  0         6h7m
webserver-84c55967f4-t479l  1/1    Running  0         6h7m
root@node-1:~# k run nginx --image=nginx --dry-run=client -o yaml > nginx.yaml
root@node-1:~# vim nginx.yaml
```

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## NEW QUESTION 5

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 6**

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

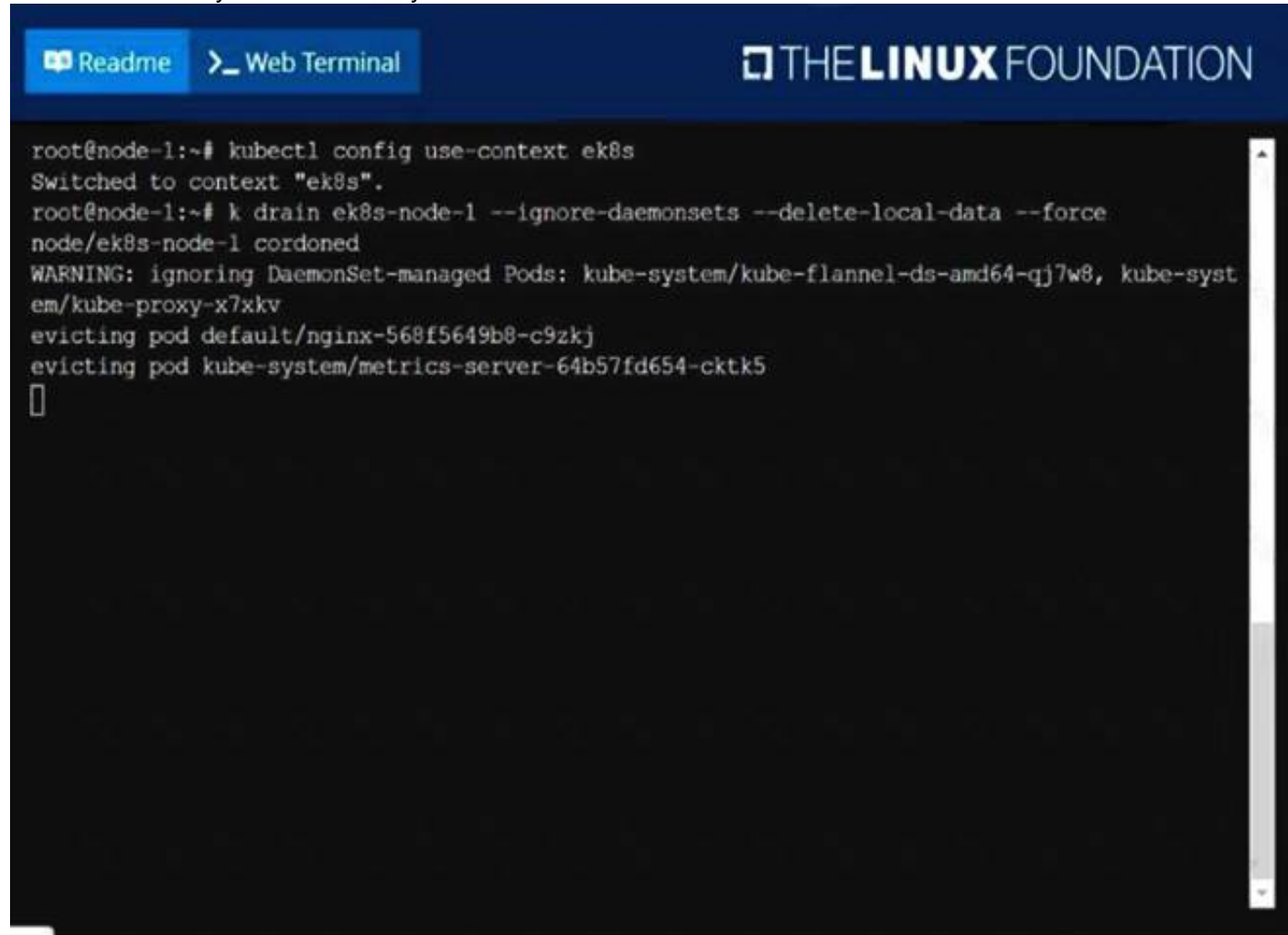
- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution

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A screenshot of a terminal window titled 'THE LINUX FOUNDATION'. The terminal shows a series of commands and their outputs. The commands are: 'kubectl config use-context ek8s', 'k drain ek8s-node-1 --ignore-daemonsets --delete-local-data --force', and 'node/ek8s-node-1 cordoned'. The outputs include 'Switched to context "ek8s".', 'WARNING: ignoring DaemonSet-managed Pods: kube-system/kube-flannel-ds-amd64-qj7w8, kube-system/kube-proxy-x7xkv', 'evicting pod default/nginx-568f5649b8-c9zkj', and 'evicting pod kube-system/metrics-server-64b57fd654-cktk5'. The terminal has a dark background with white text. There are tabs at the top labeled 'Readme' and 'Web Terminal'.

```
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 7**

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

**NEW QUESTION 8**

List pod logs named ??frontend?? and search for the pattern ??started?? and write it to a file ??/opt/error-logs??

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Kubectl logs frontend | grep -i ??started?? > /opt/error-logs

**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.

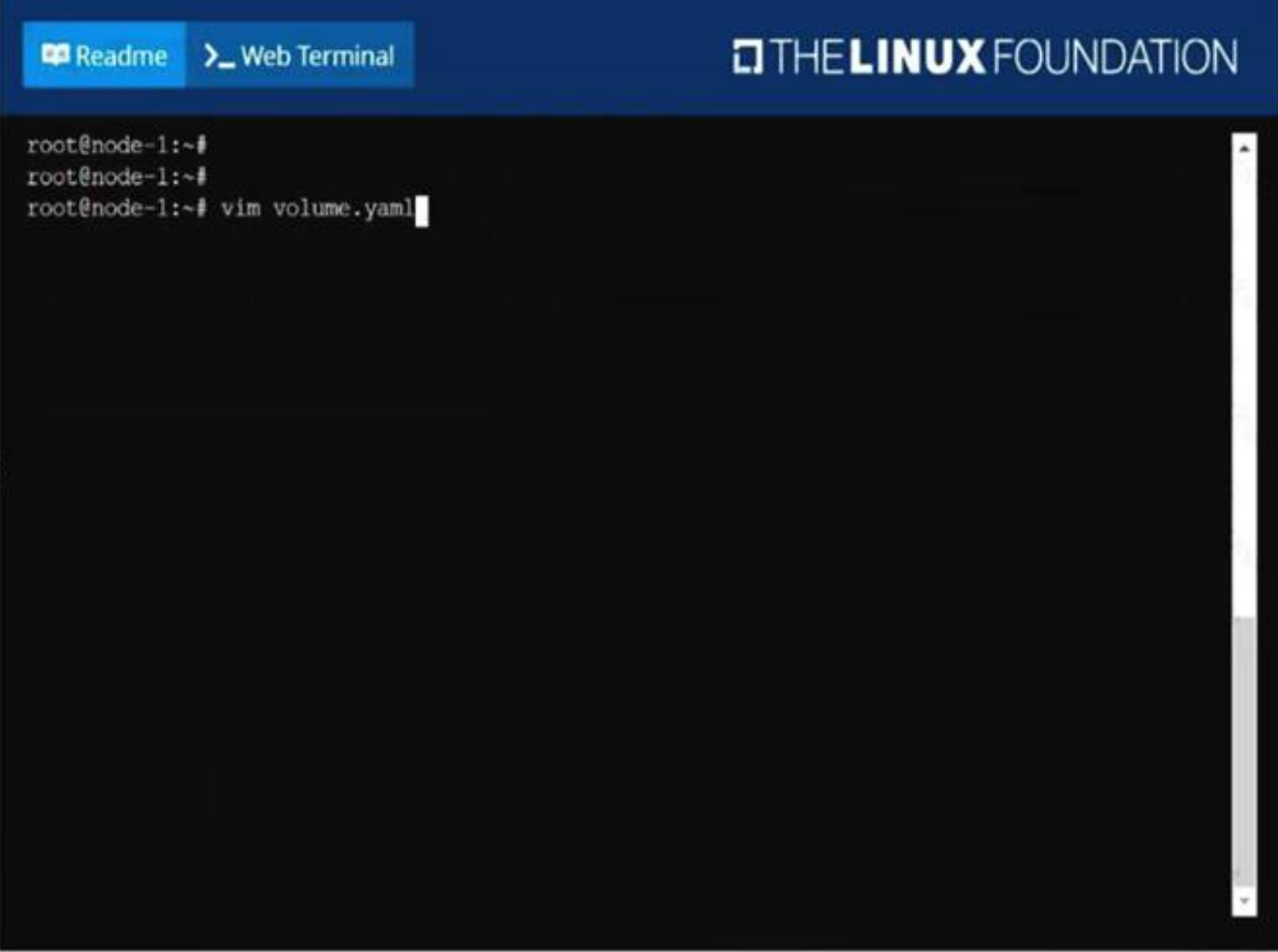
- A. Mastered
- B. Not Mastered

**Answer:** A

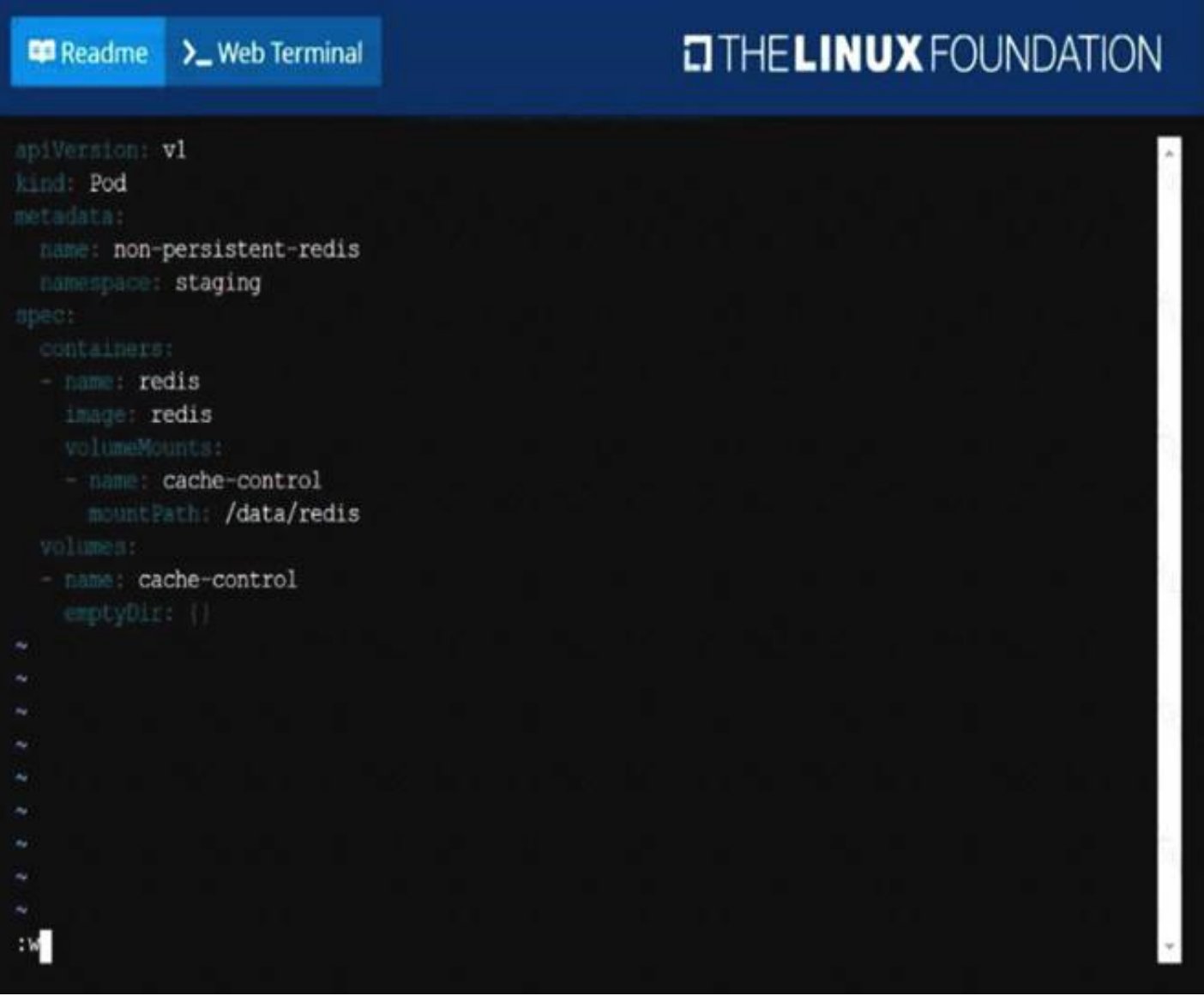
**Explanation:**

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

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 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 14

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

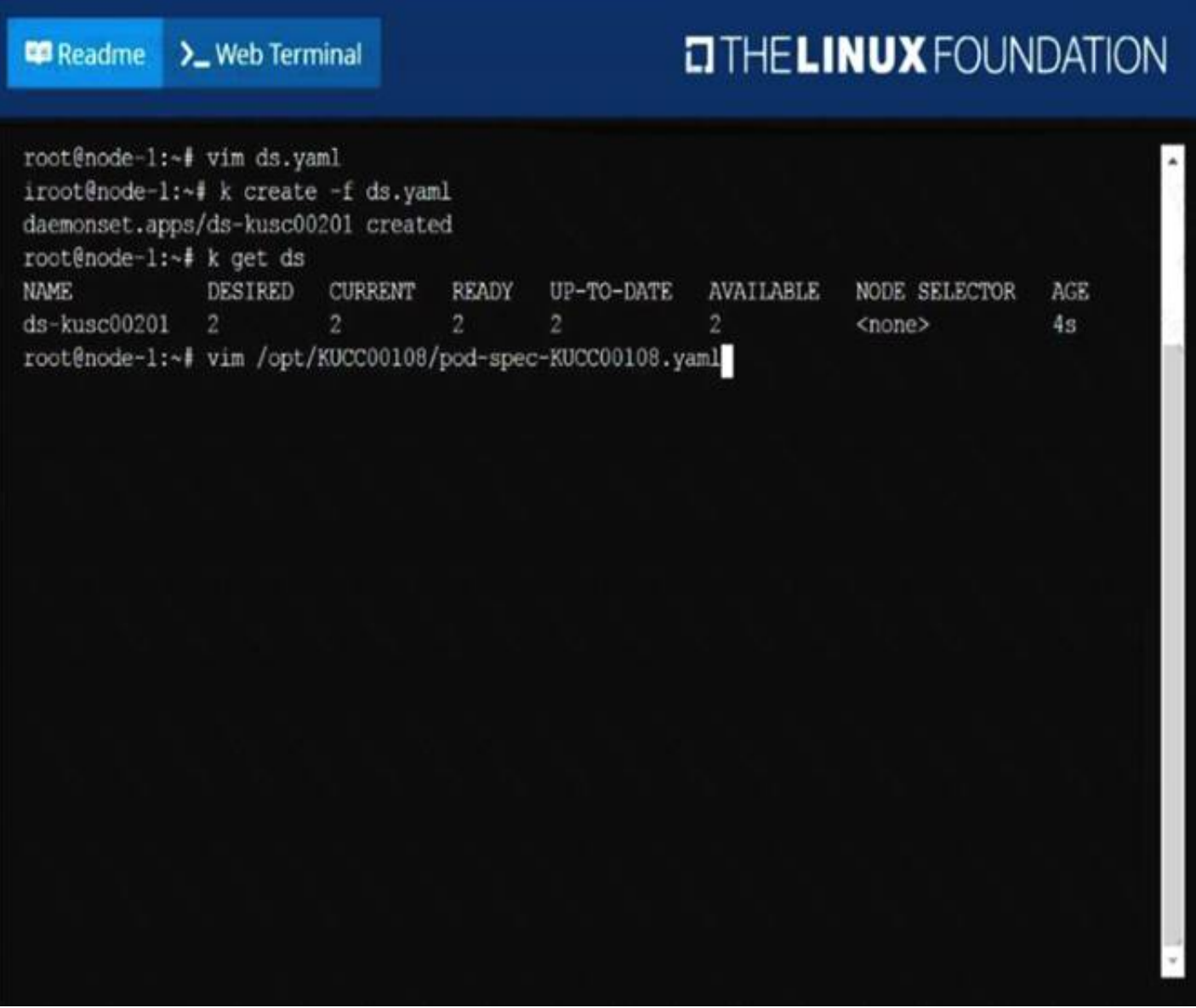


- A. Mastered
- B. Not Mastered

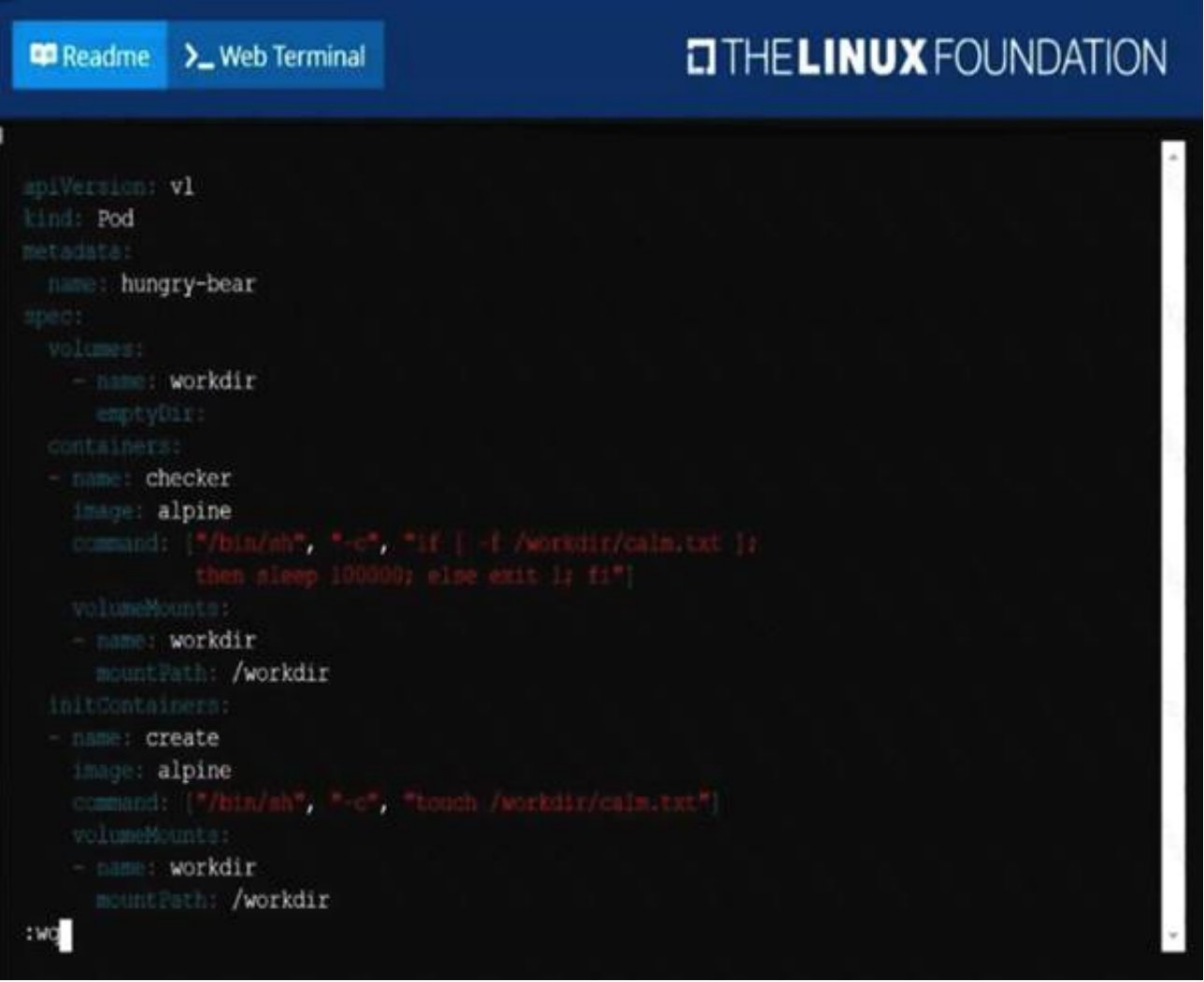
Answer: A

Explanation:

solution  
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```

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:~# 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 16

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 20

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

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

#### NEW QUESTION 23

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=alloption`.

> 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 27

Schedule a pod as follows:

> Name: `nginx-kusc00101`

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

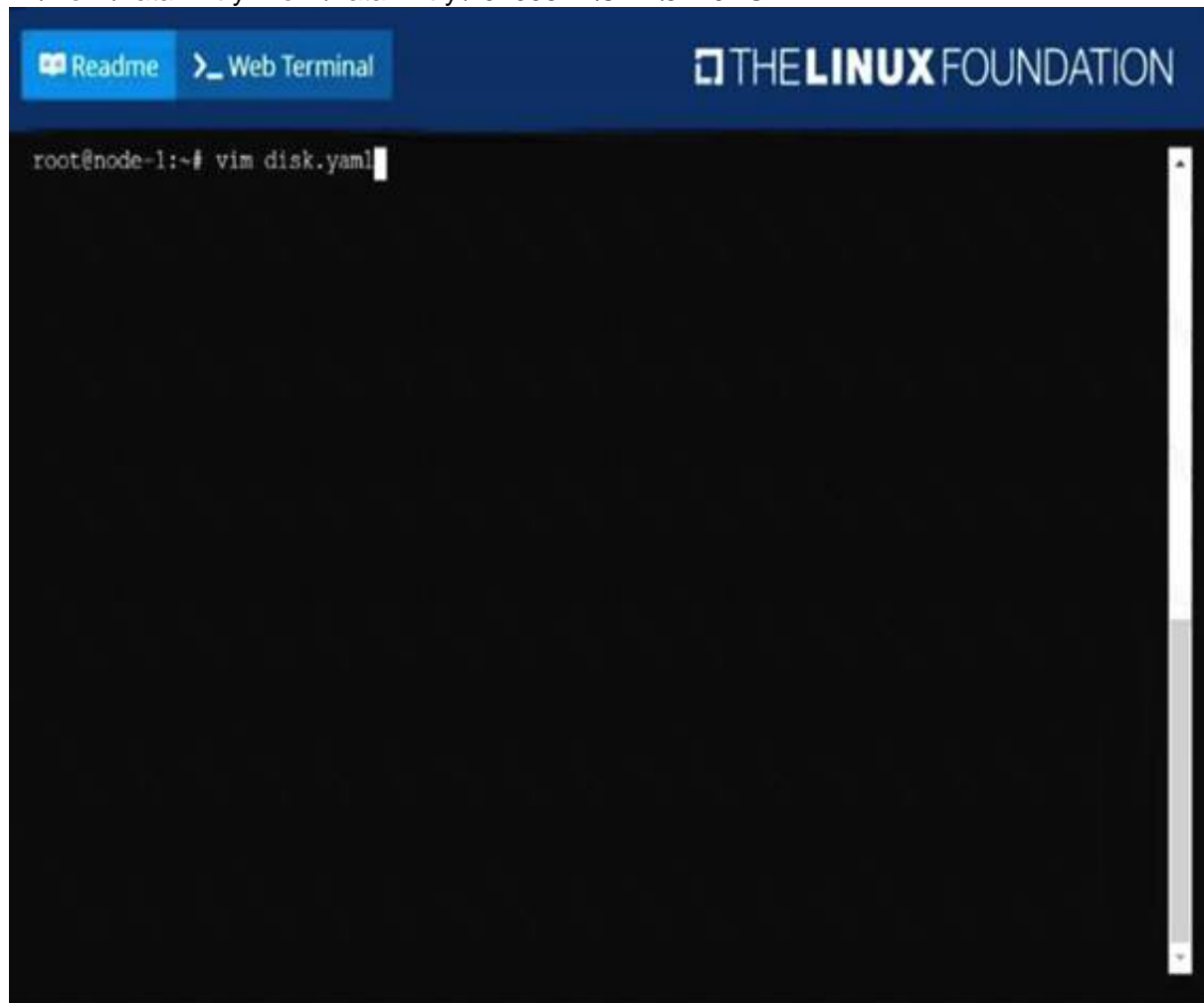
- A. Mastered  
B. Not Mastered

**Answer:** A

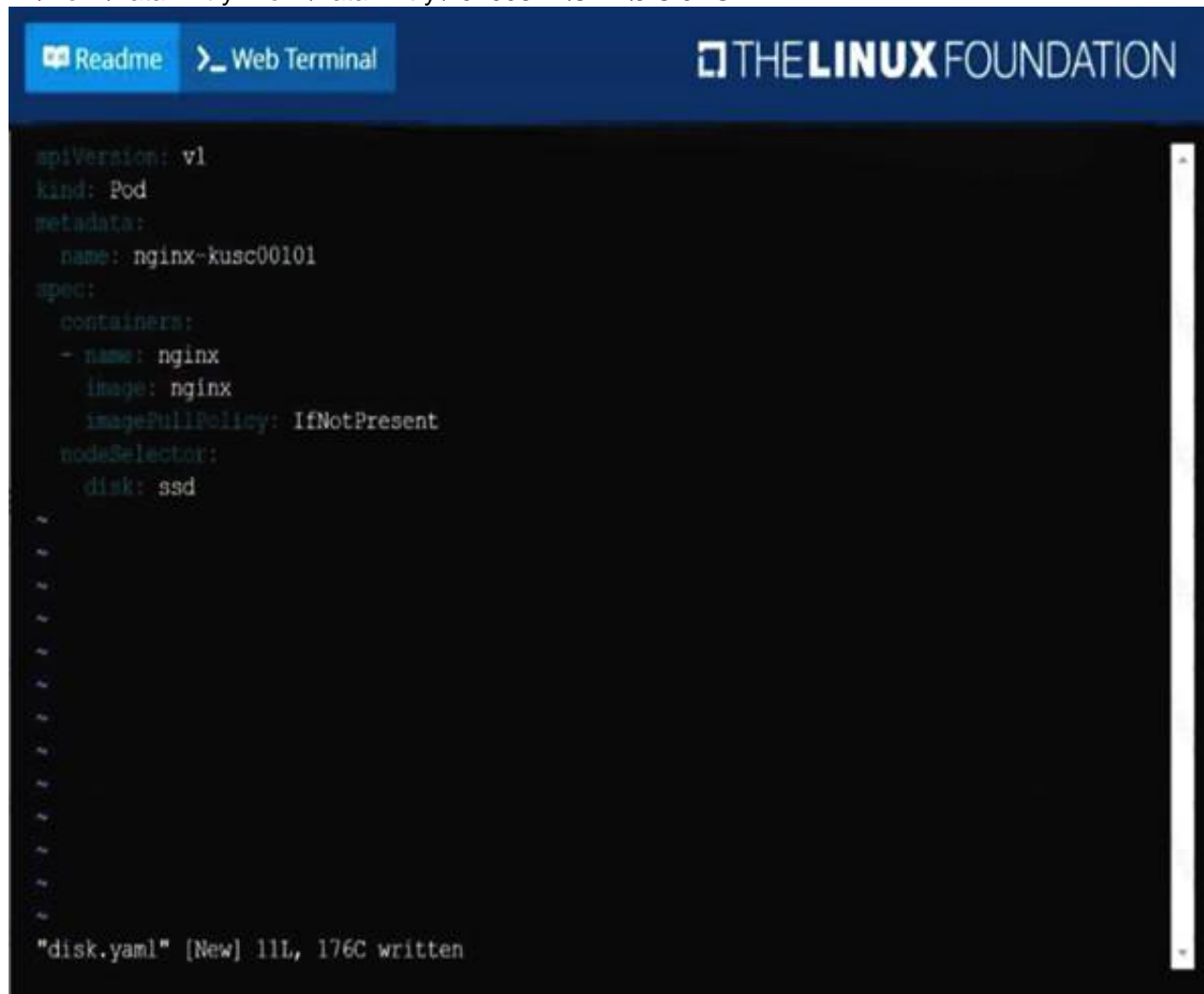
**Explanation:**

solution

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



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ReadmeWeb Terminal

THE LINUX FOUNDATION

```
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 29

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 31

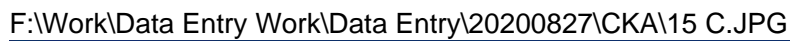
Check to see how many worker nodes are ready (not including nodes taintedNoSchedule) and write the number to/opt/KUCC00104/kucc00104.txt.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution  
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