

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

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



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:

```
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 2

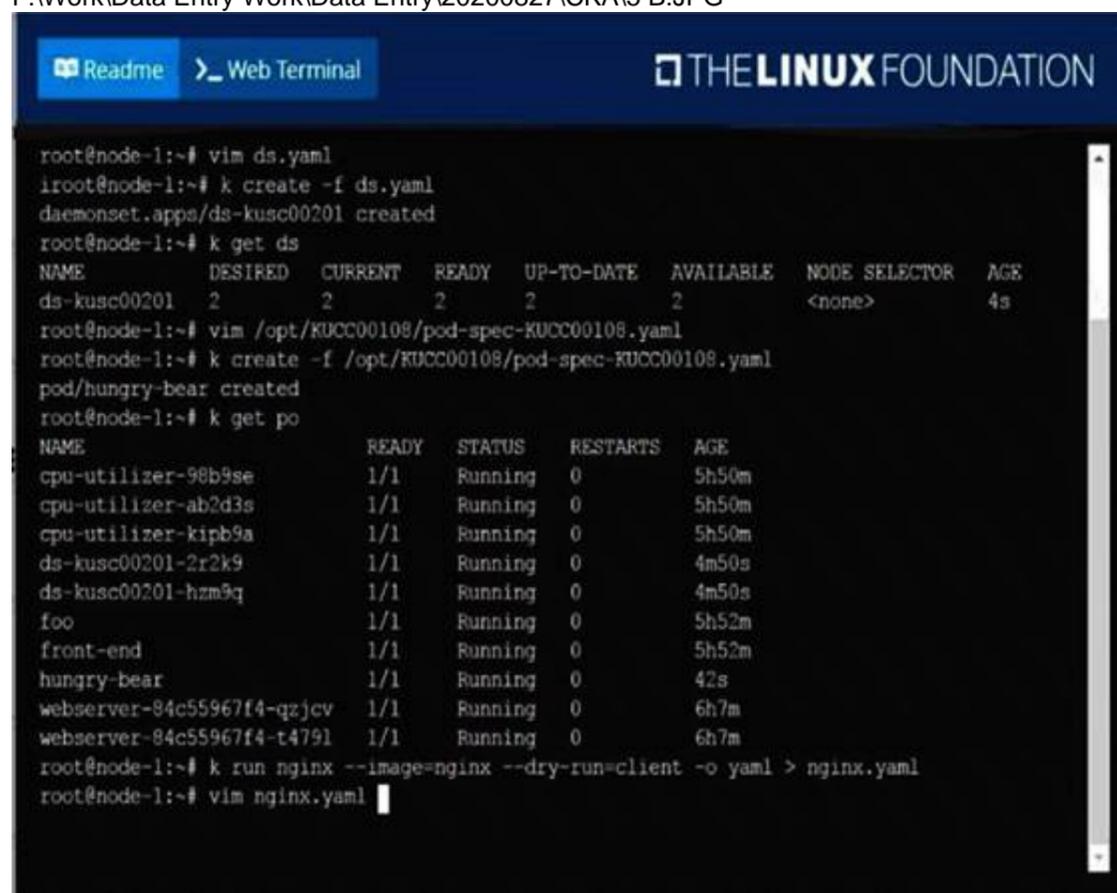
Create a pod named kucc8 with a single app container for each of the following images running inside (there may be between 1 and 4 images specified): nginx + redis + memcached.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution
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```
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:~# 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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Answer: A

Explanation:

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

NEW QUESTION 5

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.

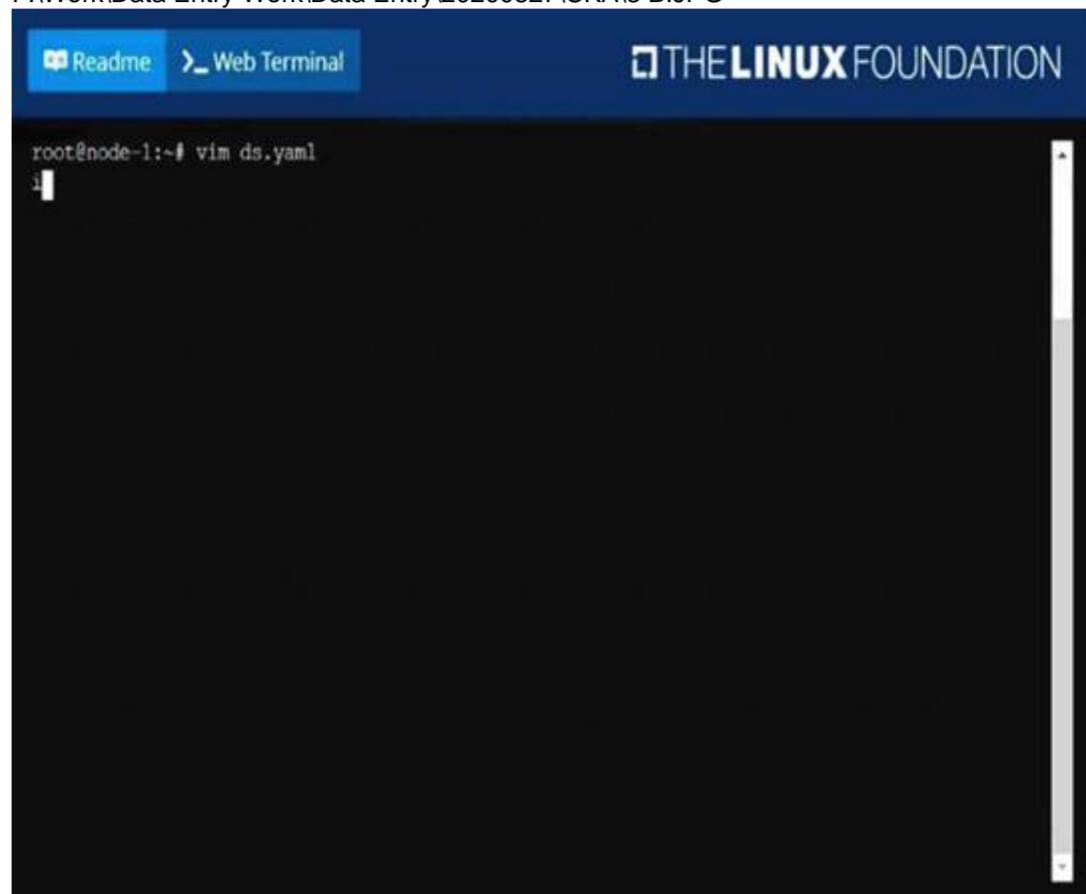
Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.

- A. Mastered
- B. Not Mastered

Answer: A

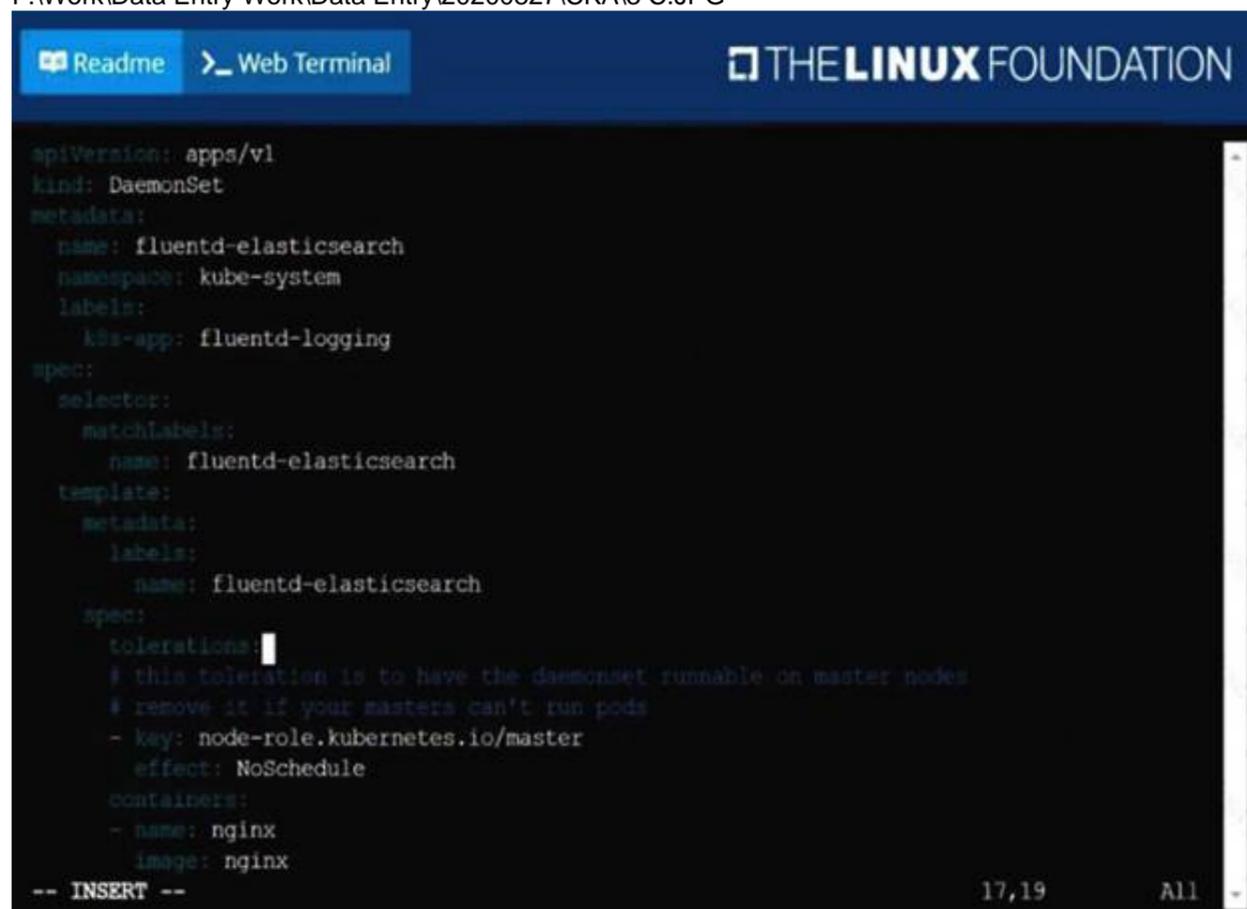
Explanation:

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

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```
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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NEW QUESTION 8

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 9

For this item, you will have to ssh to the nodes `node-0` and `node-1` 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 `node-0` as a master node.
- > Join the node `node-1` 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 has been configured so that you can install the required tools.

NEW QUESTION 10

Scale the deployment `webserver` to 6 pods.

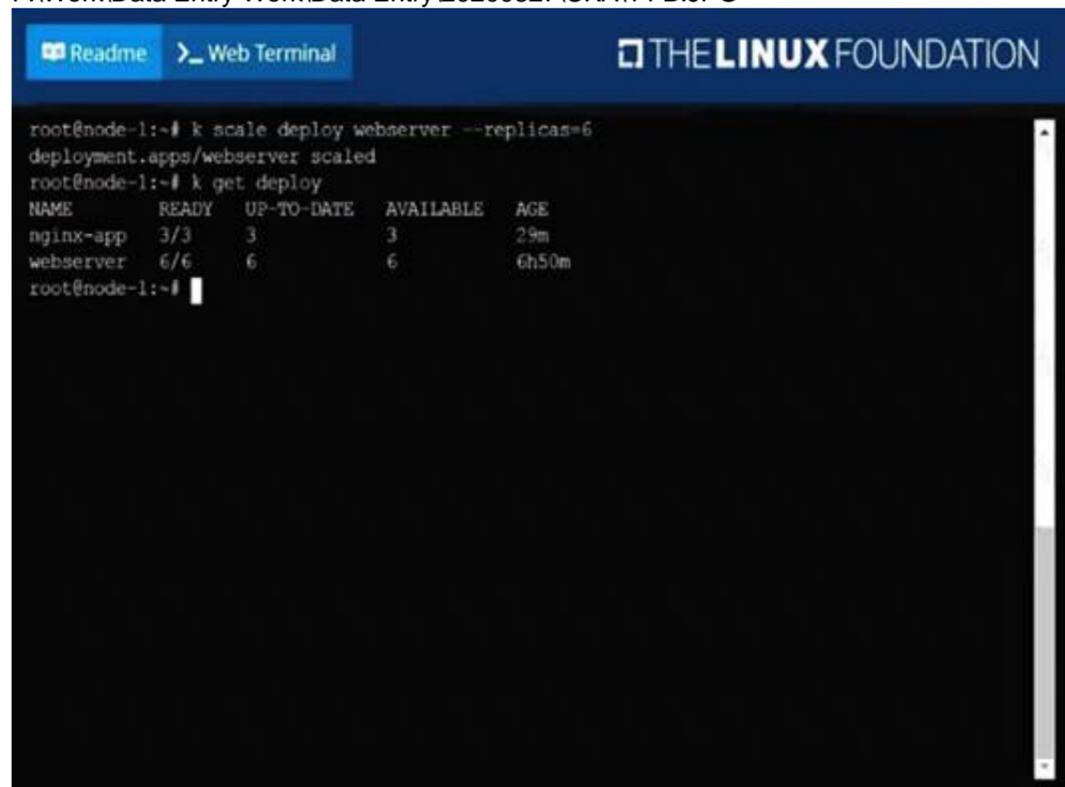
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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```
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:~#
```

NEW QUESTION 10

Schedule a pod as follows:

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

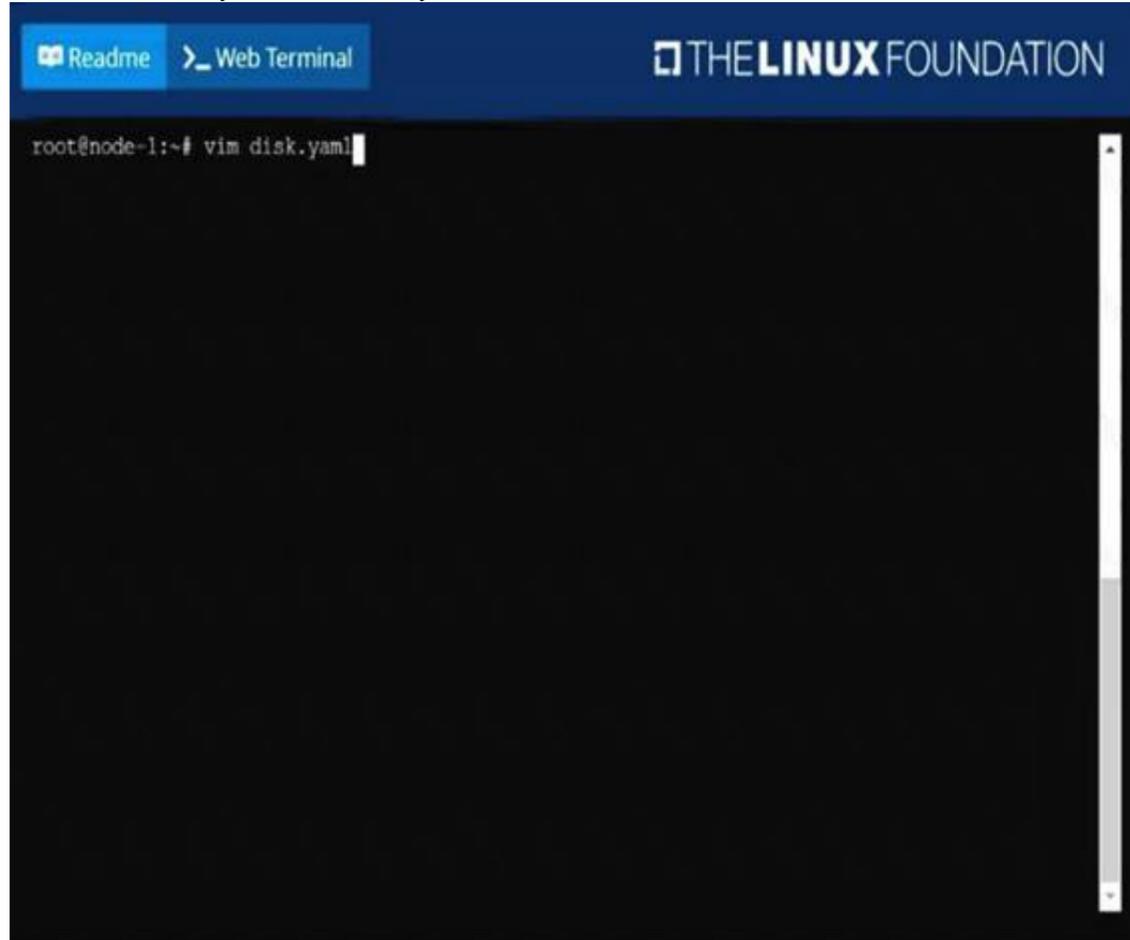
- A. Mastered

B. Not Mastered

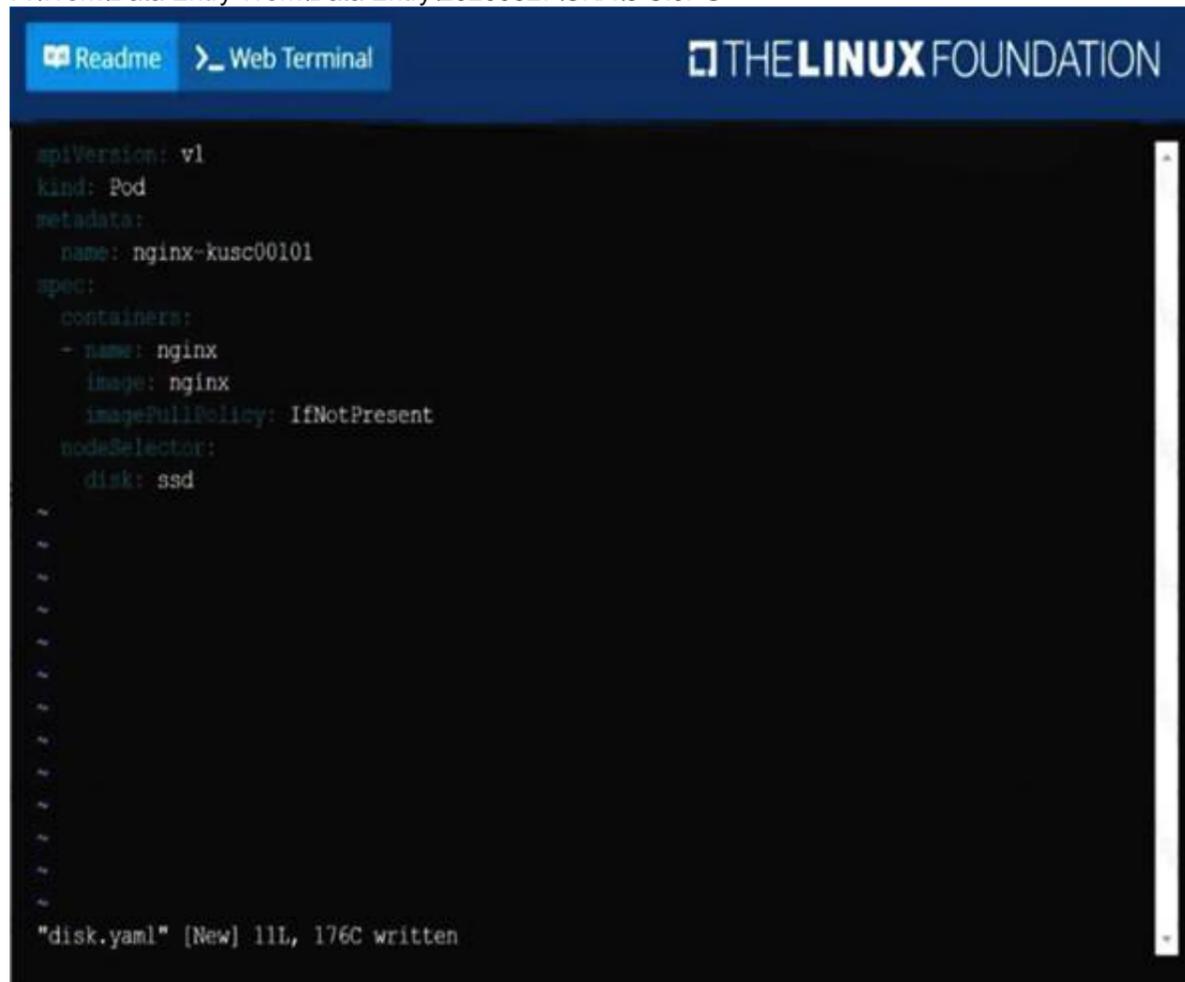
Answer: A

Explanation:

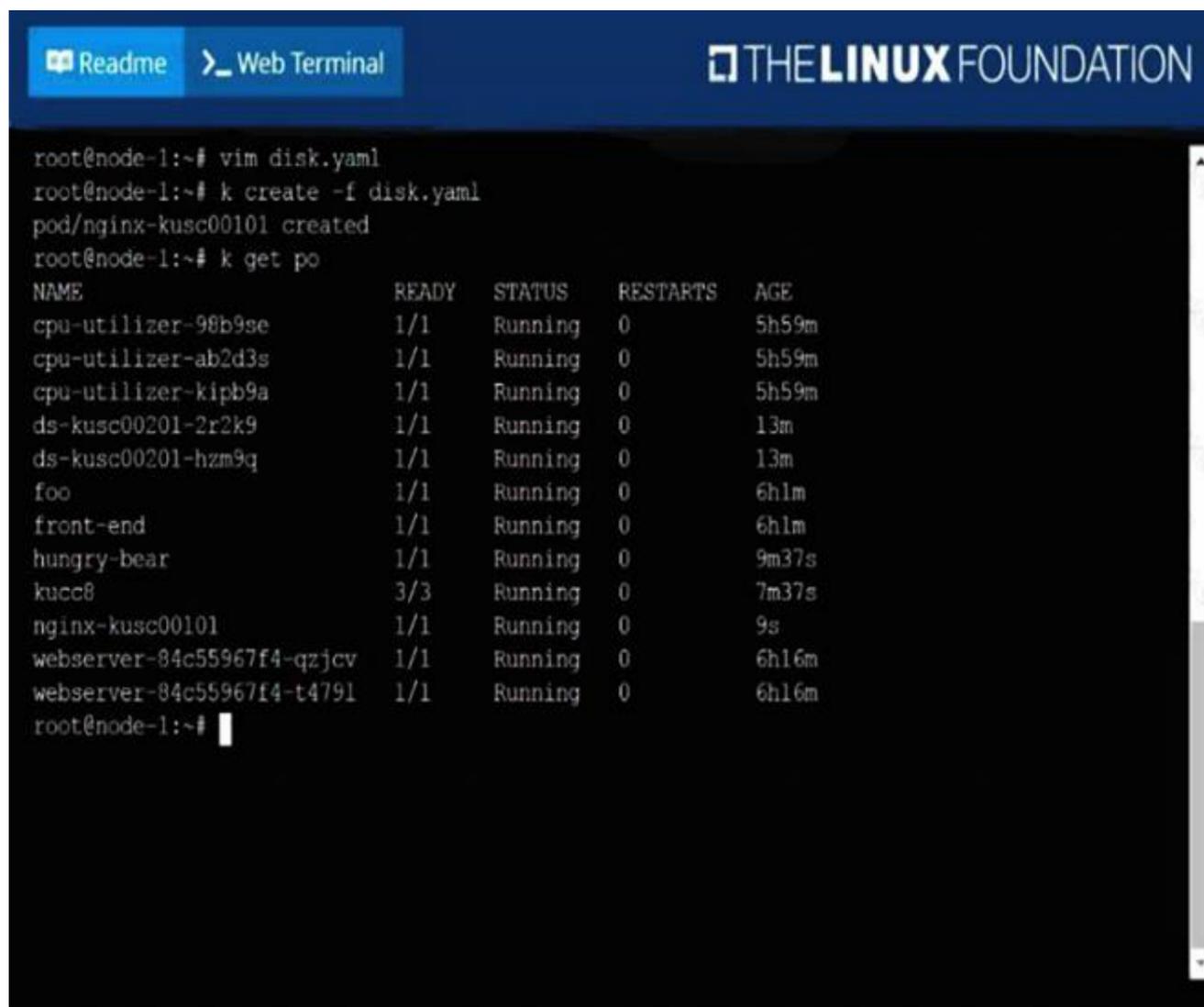
solution
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The screenshot shows a web terminal interface with a dark background. At the top, there are two buttons: 'Readme' and 'Web Terminal'. To the right, the 'THE LINUX FOUNDATION' logo is visible. The terminal content shows a user at the root of a node-1 machine performing several commands: editing a file, creating a pod, and listing pods. The output of the 'k get po' command is a table of pod details.

```
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 13

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 17

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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