

Linux-Foundation

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program



NEW QUESTION 1

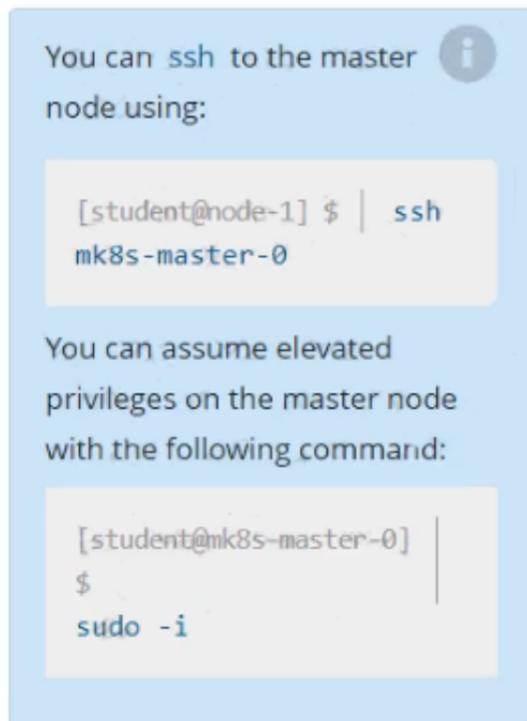
Score: 7%



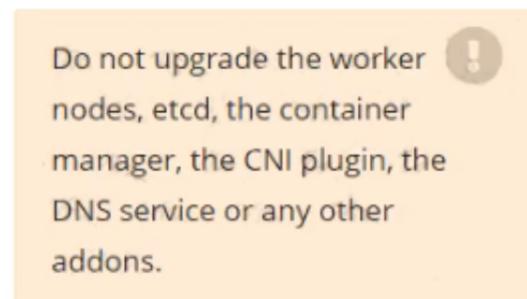
Task

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

Schedule a pod as follows:

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

- A. Mastered
- B. Not Mastered

[Readme](#)
[Web 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 3

List the nginx pod with custom columns POD_NAME and POD_STATUS

- A. Mastered
- B. Not Mastered

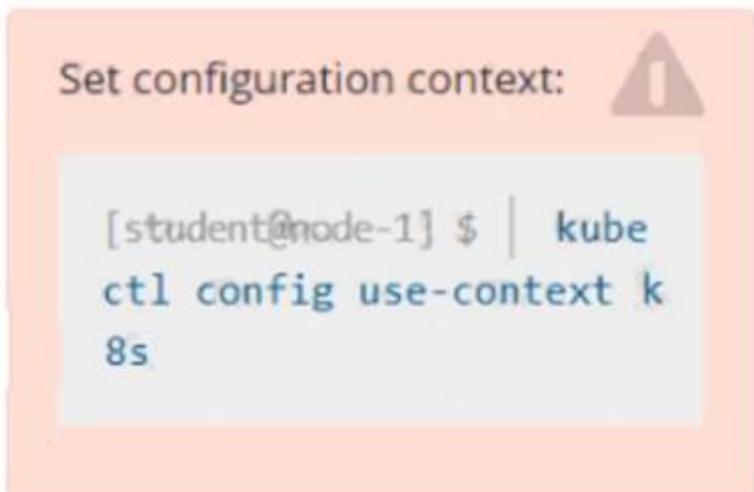
Answer: A

Explanation:

kubect! get po -o=custom-columns="POD_NAME:.metadata.name, POD_STATUS:.status.containerStatuses[].state"

NEW QUESTION 4

Score: 4%



Task
 Check to see how many nodes are ready (not including nodes tainted NoSchedule) and write the number to /opt/KUSC00402/kusc00402.txt.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

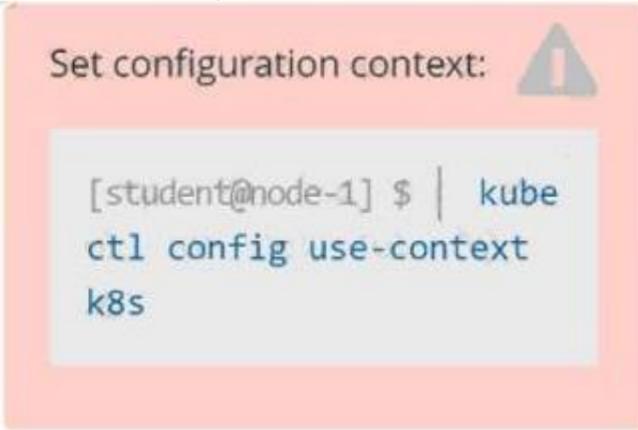
Solution:

```
kubectl describe nodes | grep ready|wc -l
kubectl describe nodes | grep -i taint | grep -i noschedule |wc -l echo 3 > /opt/KUSC00402/kusc00402.txt
#
kubectl get node | grep -i ready |wc -l
# taintsnoSchedule
kubectl describe nodes | grep -i taints | grep -i noschedule |wc -l
#
echo 2 > /opt/KUSC00402/kusc00402.txt
```

NEW QUESTION 5

Monitor the logs of pod foo and:

- > Extract log lines corresponding to error unable-to-access-website
- > Write them to/opt/KULM00201/foo



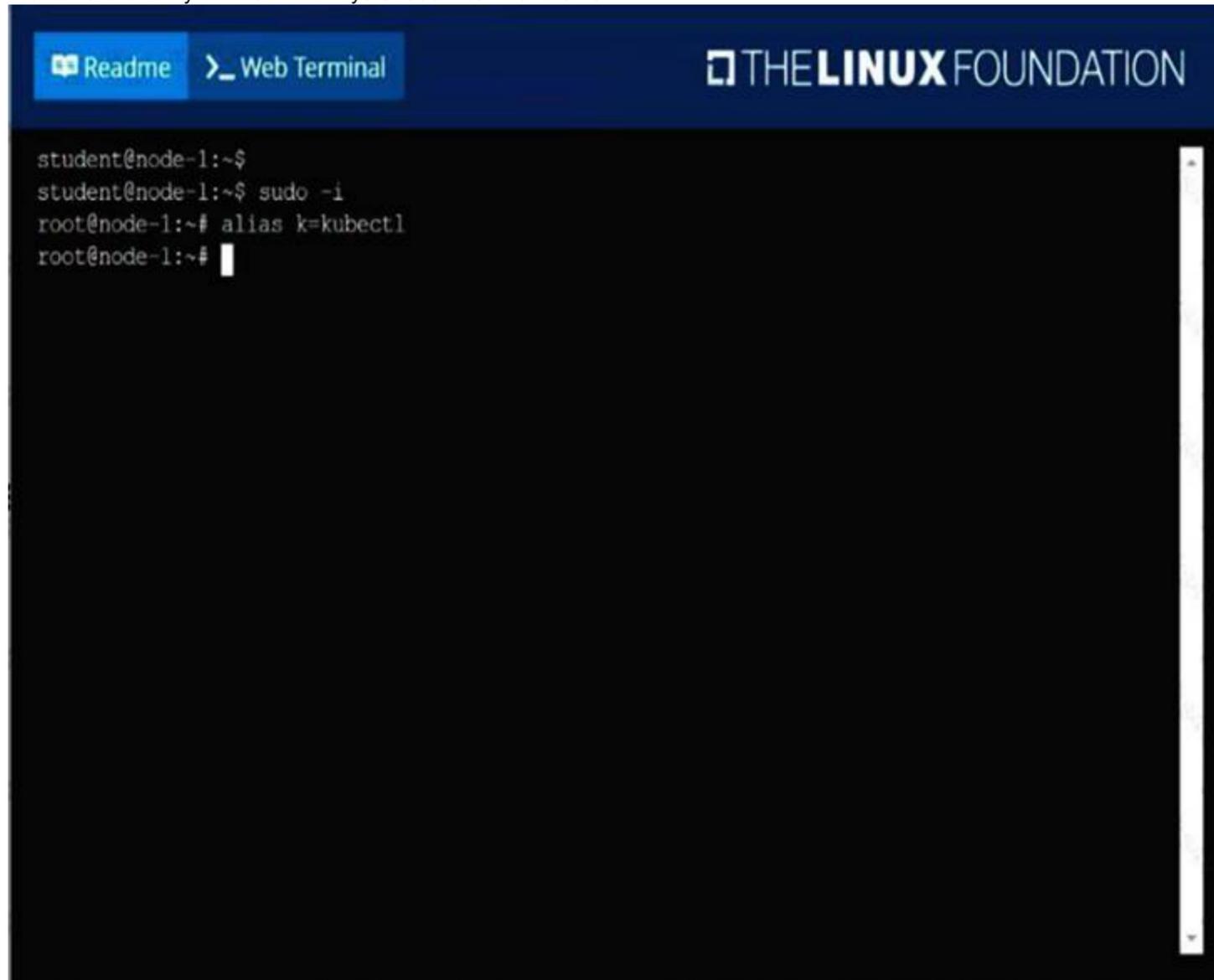
- A. Mastered
- B. Not Mastered

Answer: A

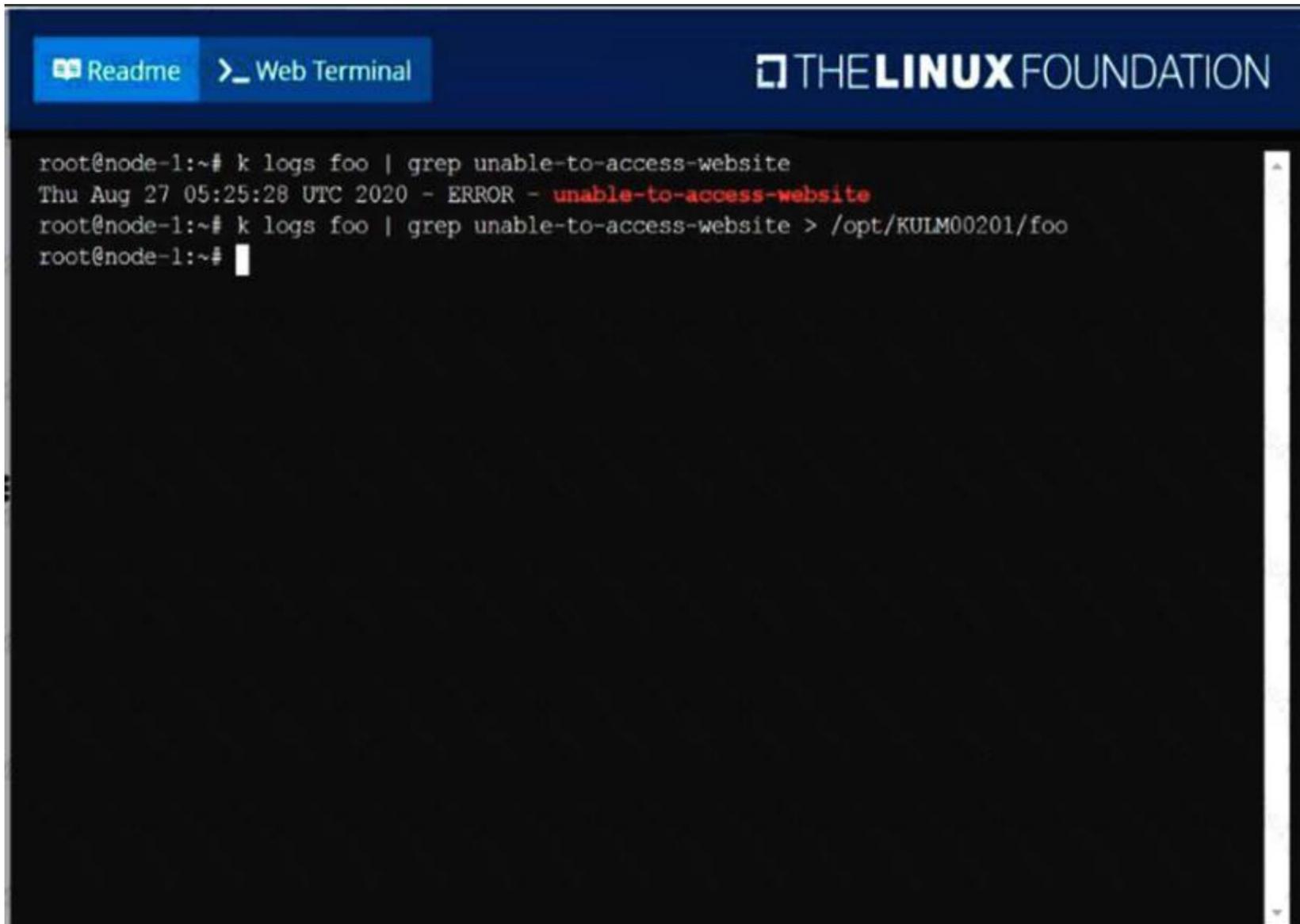
Explanation:

solution

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```
Readme Web Terminal THE LINUX FOUNDATION
root@node-1:~# k logs foo | grep unable-to-access-website
Thu Aug 27 05:25:28 UTC 2020 - ERROR - unable-to-access-website
root@node-1:~# k logs foo | grep unable-to-access-website > /opt/KULM00201/foo
root@node-1:~#
```

NEW QUESTION 6

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 7

Check the image version in pod without the describe command

- A. Mastered
- B. Not Mastered

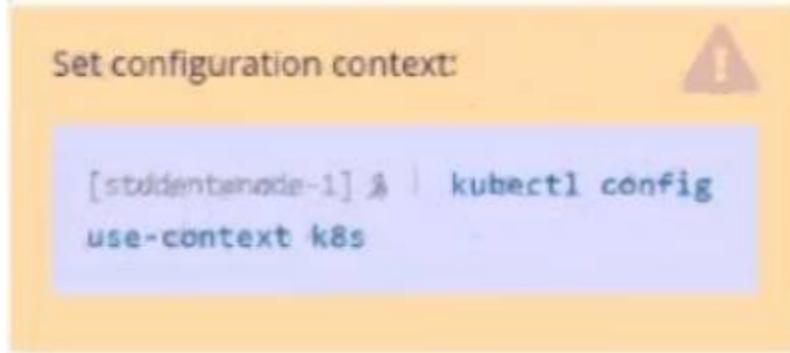
Answer: A

Explanation:

```
kubectl get po nginx -o jsonpath='{.spec.containers[].image}'
```

NEW QUESTION 8

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 9

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 10

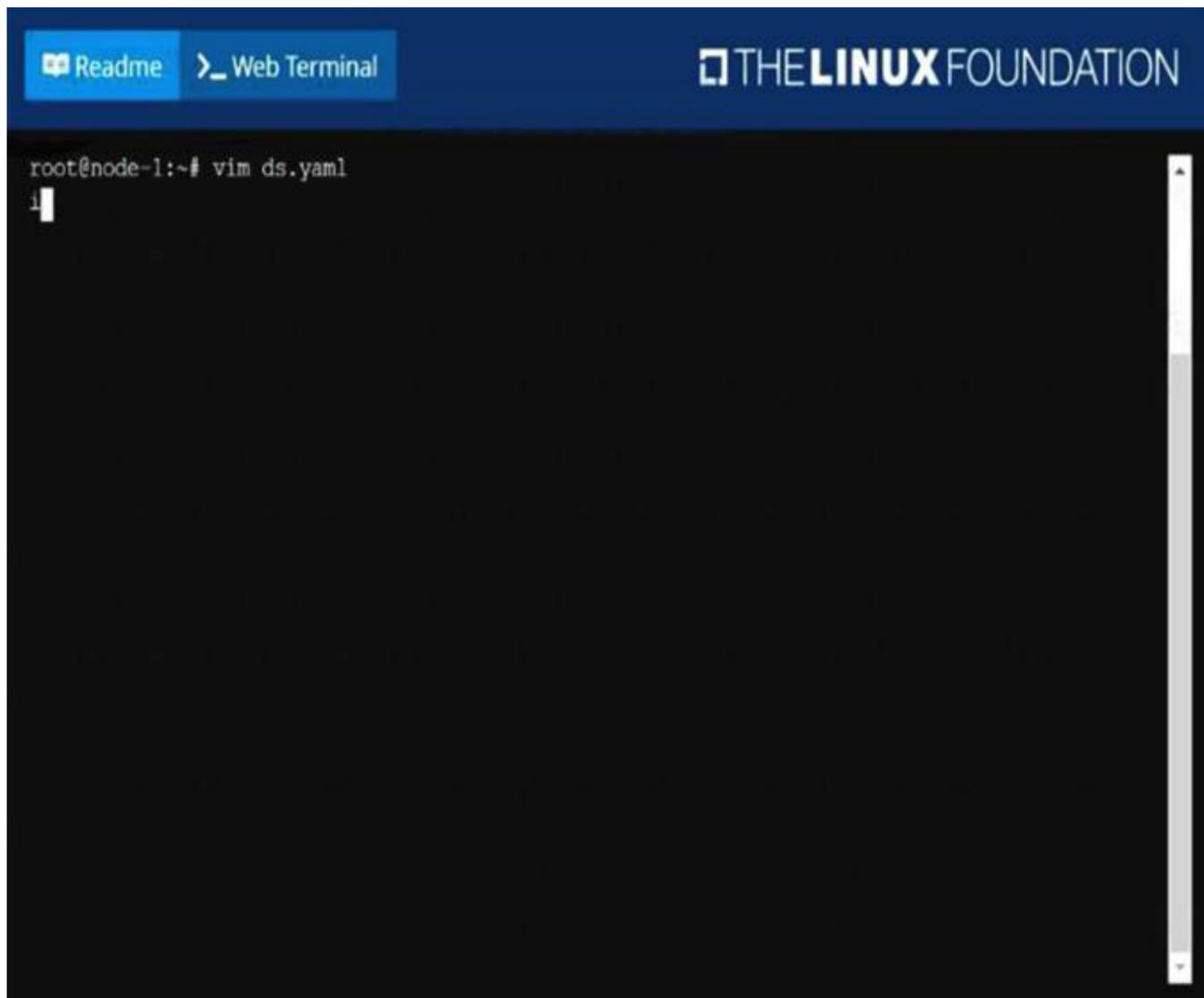
Ensure a single instance of pod nginx is running on each node of the Kubernetes cluster where nginx also represents the Image name which has to be used. Do not override any taints currently in place. Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.

- A. Mastered
- B. Not Mastered

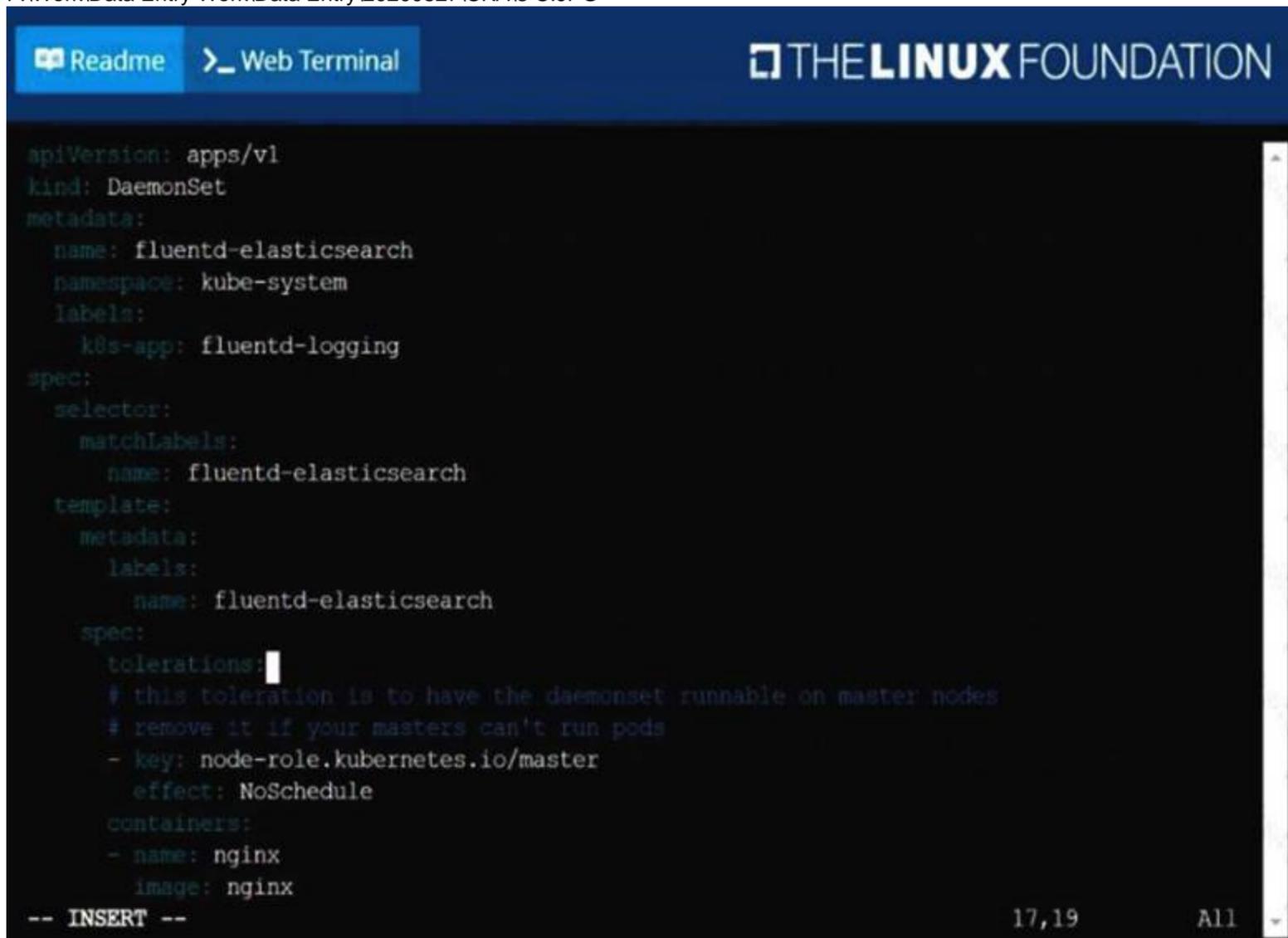
Answer: A

Explanation:

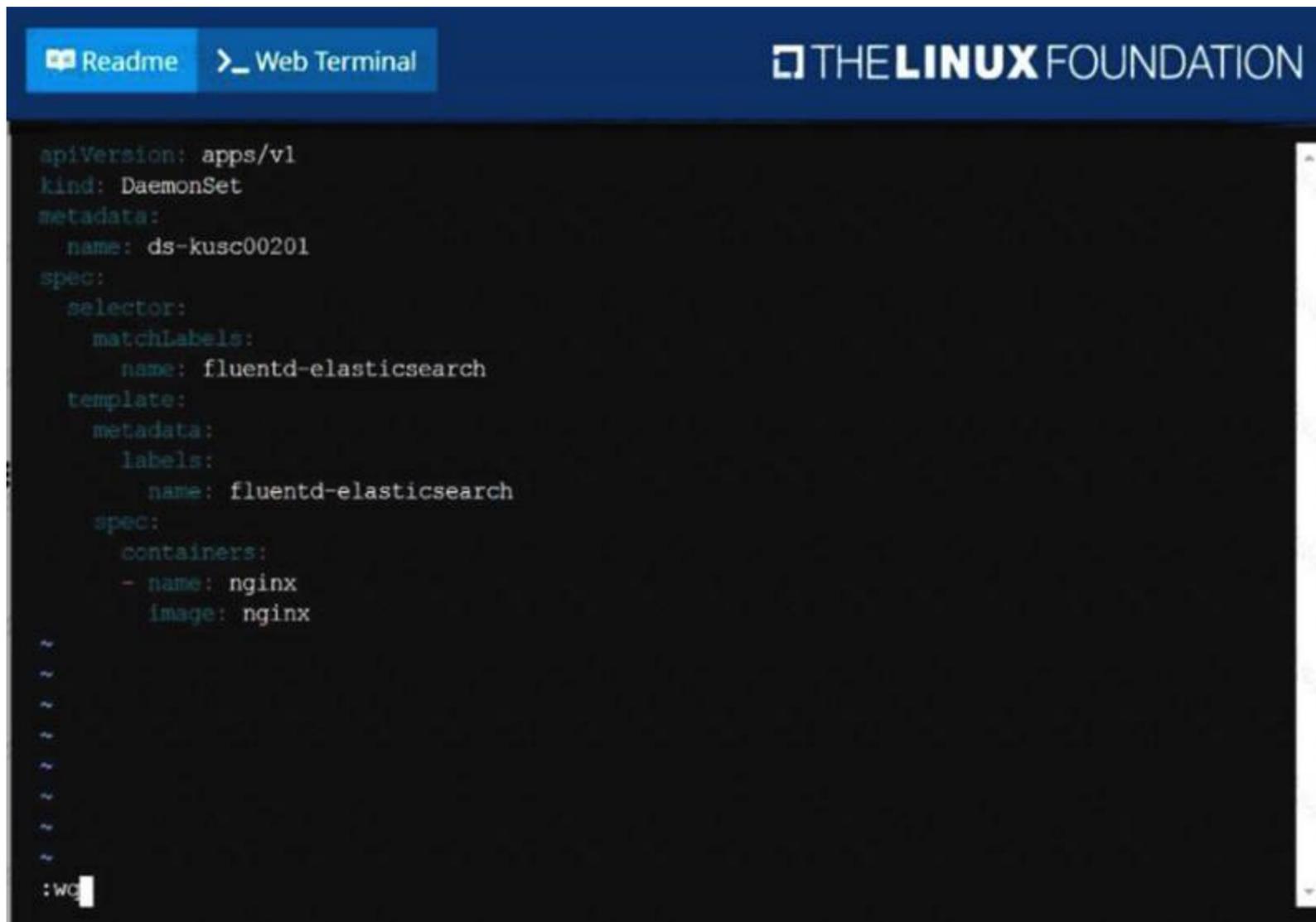
solution
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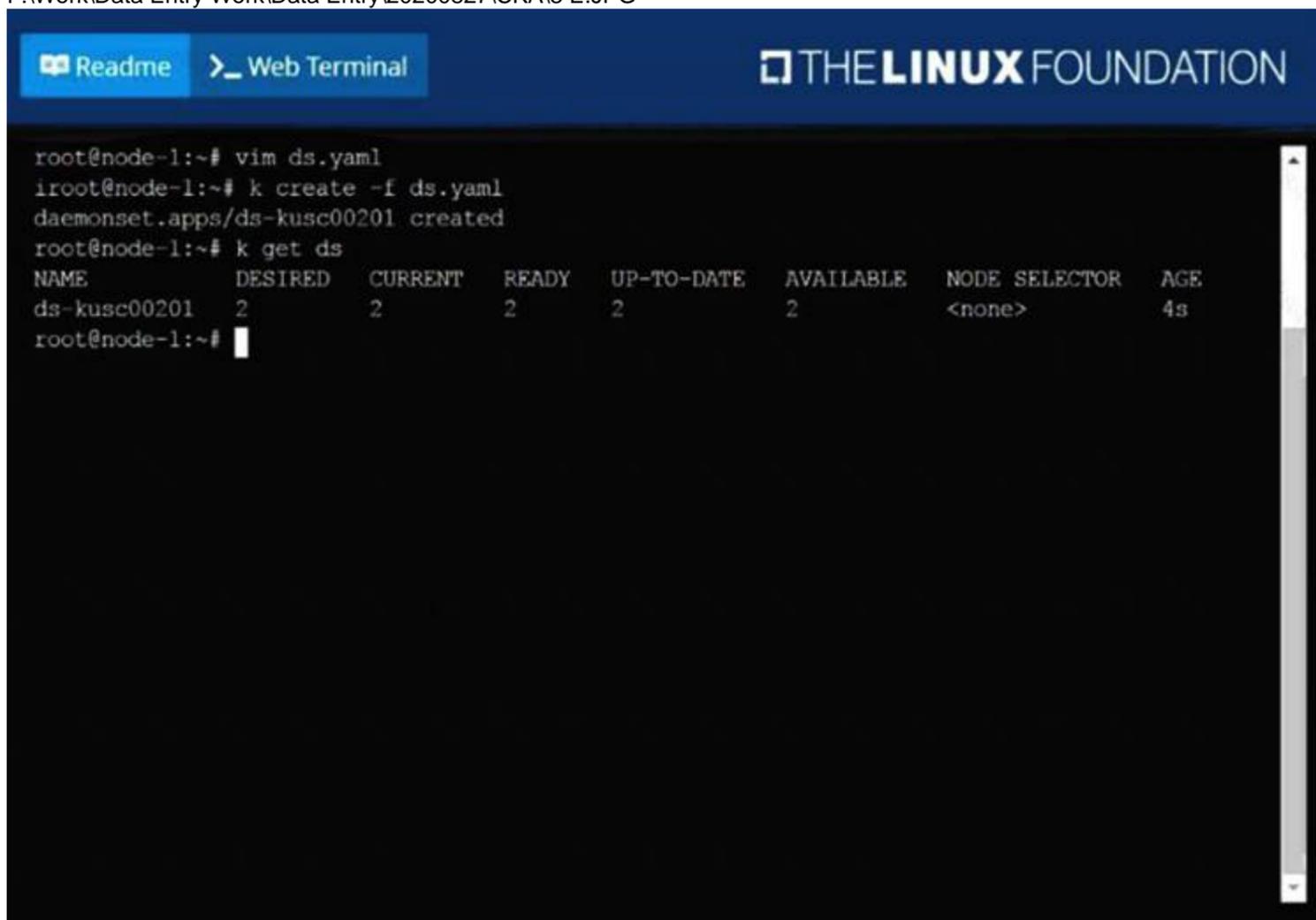
The screenshot shows a web terminal interface with a dark background and light text. At the top, there are two buttons: 'Readme' and 'Web Terminal'. The main content area displays a YAML manifest for a DaemonSet named 'ds-kusc00201'. The manifest includes fields for 'apiVersion', 'kind', 'metadata', 'spec', 'selector', 'template', and 'containers'. The 'containers' section lists a single container named 'nginx' with the image 'nginx'. The terminal prompt is ':wq'.

```

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
~
~
~
~
~
~
~
~
~
:wq

```

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The screenshot shows a web terminal interface with a dark background and light text. At the top, there are two buttons: 'Readme' and 'Web Terminal'. The main content area displays a series of terminal commands and their outputs. The commands include 'vim ds.yaml', 'k create -f ds.yaml', and 'k get ds'. The output of 'k get ds' shows a table with columns for NAME, DESIRED, CURRENT, READY, UP-TO-DATE, AVAILABLE, NODE SELECTOR, and AGE. The table contains one row for 'ds-kusc00201' with values 2, 2, 2, 2, 2, <none>, and 4s. The terminal prompt is 'root@node-1:~#'.

```

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 10

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 13

Given a partially-functioning Kubernetes cluster, identify symptoms of failure on the cluster.

Determine the node, the failing service, and take actions to bring up the failed service and restore the health of the cluster. Ensure that any changes are made permanently.

You can ssh to the relevant nodes (bk8s-master-0 or bk8s-node-0) using:

```
[student@node-1] $ ssh <nodename>
```

You can assume elevated privileges on any node in the cluster with the following command:

```
[student@nodename] $ | sudo -i
```

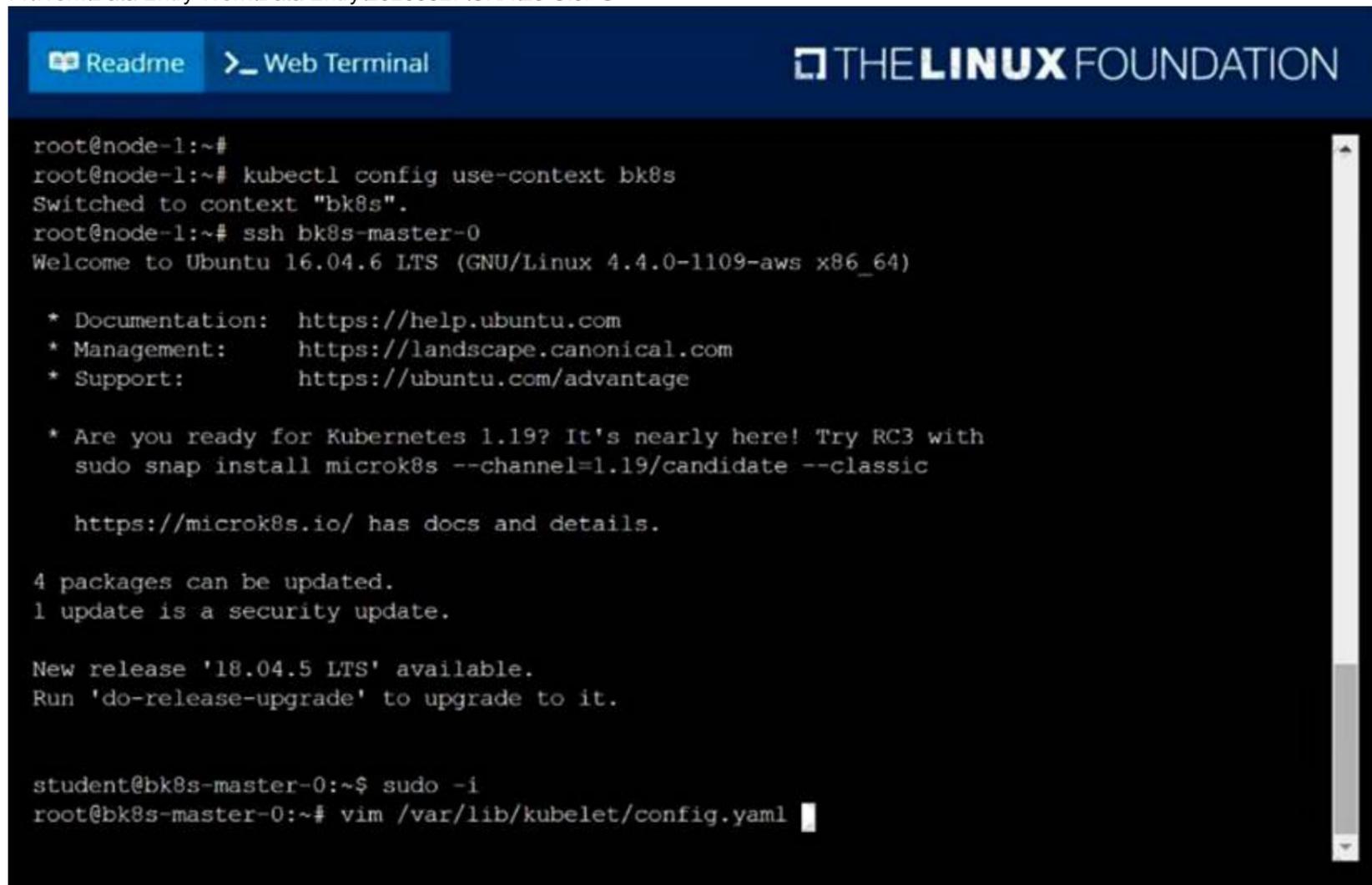
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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```

Readme  Web Terminal  THE LINUX FOUNDATION

root@node-1:~#
root@node-1:~# kubectl config use-context bk8s
Switched to context "bk8s".
root@node-1:~# ssh bk8s-master-0
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-1109-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

 * Are you ready for Kubernetes 1.19? It's nearly here! Try RC3 with
   sudo snap install microk8s --channel=1.19/candidate --classic

   https://microk8s.io/ has docs and details.

4 packages can be updated.
1 update is a security update.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

student@bk8s-master-0:~$ sudo -i
root@bk8s-master-0:~# vim /var/lib/kubelet/config.yaml

```

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```

authorization:
  mode: Webhook
  webhook:
    cacheAuthorizedTTL: 0s
    cacheUnauthorizedTTL: 0s
clusterDNS:
- 10.96.0.10
clusterDomain: cluster.local
cpuManagerReconcilePeriod: 0s
evictionPressureTransitionPeriod: 0s
fileCheckFrequency: 0s
healthzBindAddress: 127.0.0.1
healthzPort: 10248
httpCheckFrequency: 0s
imageMinimumGCAge: 0s
kind: KubeletConfiguration
nodeStatusReportFrequency: 0s
nodeStatusUpdateFrequency: 0s
rotateCertificates: true
runtimeRequestTimeout: 0s
staticPodPath: /etc/kubernetes/manifests
streamingConnectionIdleTimeout: 0s
syncFrequency: 0s
volumeStatsAggPeriod: 0s
:wg
  
```

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Readme Web Terminal THE LINUX FOUNDATION

```

https://microk8s.io/ has docs and details.

4 packages can be updated.
1 update is a security update.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

student@bk8s-master-0:~$ sudo -i
root@bk8s-master-0:~# vim /var/lib/kubelet/config.yaml
root@bk8s-master-0:~# systemctl restart kubelet
root@bk8s-master-0:~# systemctl enable kubelet
root@bk8s-master-0:~# kubectl get nodes

NAME             STATUS    ROLES    AGE   VERSION
bk8s-master-0   Ready    master   77d   v1.18.2
bk8s-node-0     Ready    <none>   77d   v1.18.2
root@bk8s-master-0:~#
root@bk8s-master-0:~# exit
logout
student@bk8s-master-0:~$ exit
logout
Connection to 10.250.4.77 closed.
root@node-1:~#
  
```

NEW QUESTION 17

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 21

Score: 4%



Context

You have been asked to create a new ClusterRole for a deployment pipeline and bind it to a specific ServiceAccount scoped to a specific namespace.

Task

Create a new ClusterRole named deployment-clusterrole, which only allows to create the following resource types:

- Deployment
- StatefulSet
- DaemonSet

Create a new ServiceAccount named cicd-token in the existing namespace app-team1.

Bind the new ClusterRole deployment-clusterrole to the new ServiceAccount cicd-token, limited to the namespace app-team1.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

Task should be complete on node k8s -1 master, 2 worker for this connect use command

[student@node-1] > ssh k8s

kubectl create clusterrole deployment-clusterrole --verb=create

--resource=deployments,statefulsets,daemonsets

kubectl create serviceaccount cicd-token --namespace=app-team1

kubectl create rolebinding deployment-clusterrole --clusterrole=deployment-clusterrole

--serviceaccount=default:cicd-token --namespace=app-team1

NEW QUESTION 23

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