



# Linux-Foundation

## Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

**NEW QUESTION 1**

CORRECT TEXT

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

- A. Mastered
- B. Not Mastered

**Answer:** A

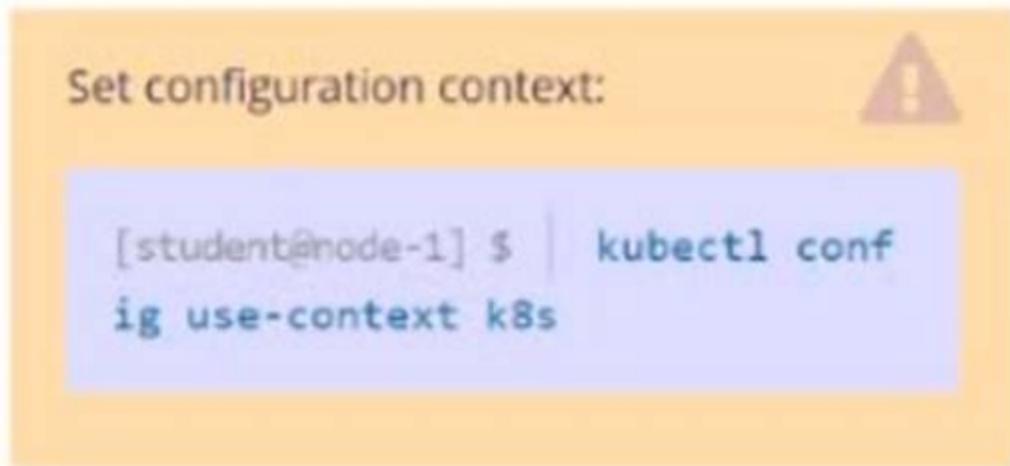
**Explanation:**

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

**NEW QUESTION 2**

CORRECT TEXT

Task Weight: 4%



Task

Schedule a Pod as follows:

- Name: kucc1
- App Containers: 2
- Container Name/Images: o nginx  
o consul

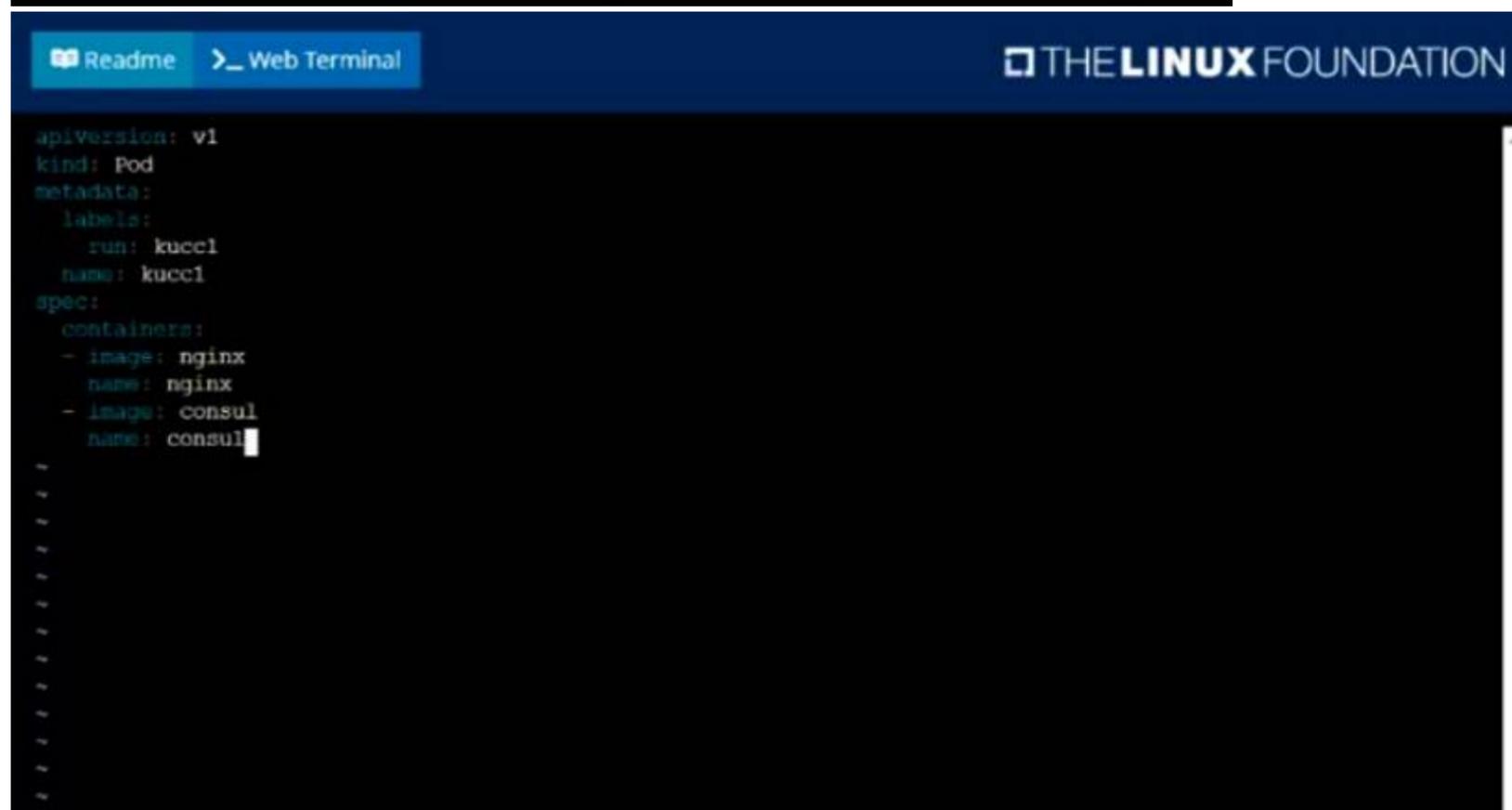
- A. Mastered
- B. Not Mastered

**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

```
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.yaml
student@node-1:~$ vim aa.yaml
student@node-1:~$ kubectl create -f aa.yaml
pod/kucc1 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
kucc1                0/2     ContainerCreating   0           3s
nginx-kusc00401     1/1     Running             0           2m28s
webserver-84c89dfd75-2d1jn  1/1     Running             0           6h38m
webserver-84c89dfd75-8d8x2  1/1     Running             0           6h38m
webserver-84c89dfd75-z5zz4  1/1     Running             0           3m51s
student@node-1:~$
```

Text Description automatically generated

**NEW QUESTION 3**

CORRECT TEXT

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 4**

CORRECT TEXT

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 5**

CORRECT TEXT

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 6**

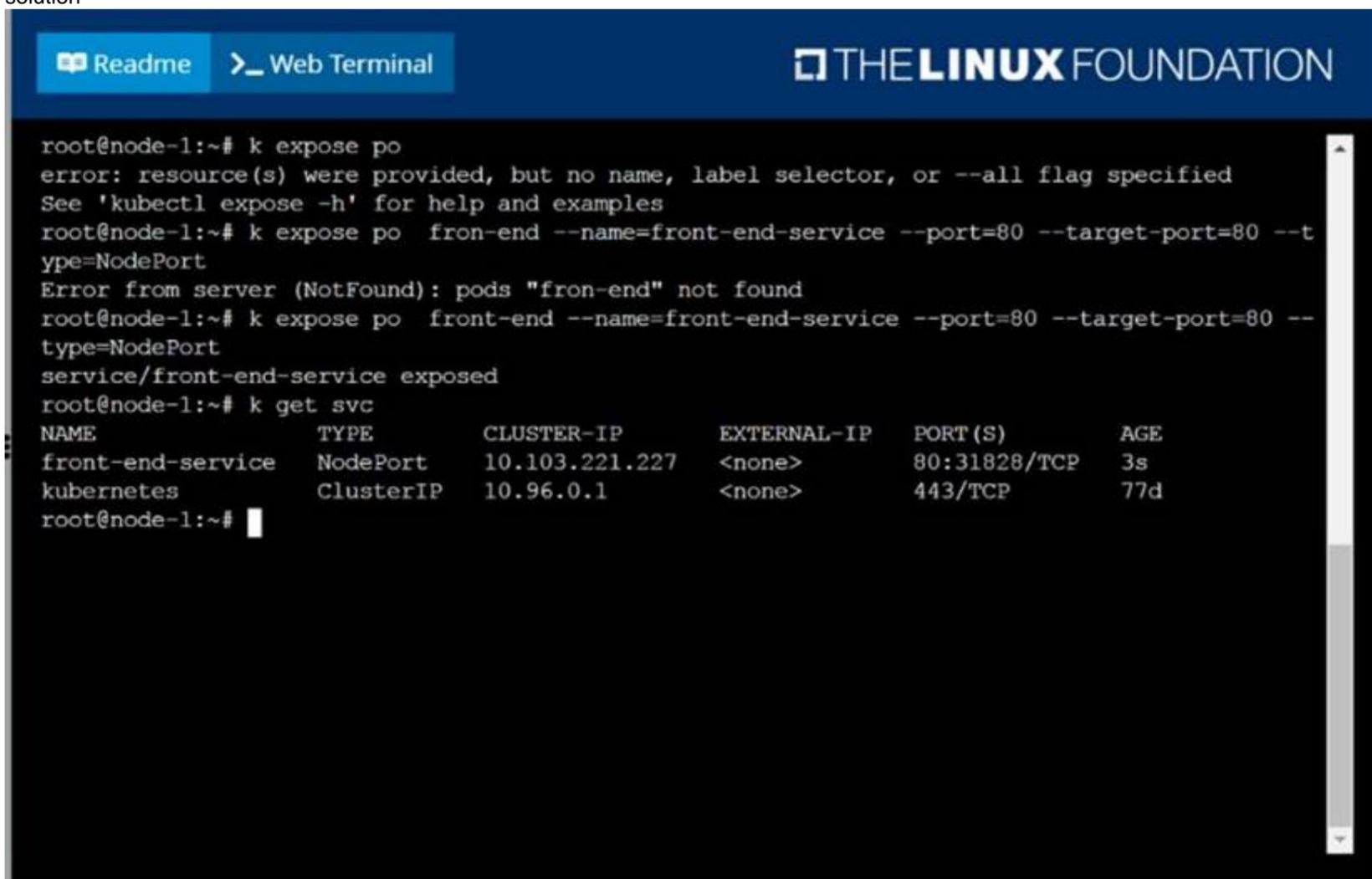
CORRECT TEXT

Create and configure the service front-end-service so it's accessible through NodePort and routes to the existing pod named front-end.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
 solution



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**NEW QUESTION 7**

CORRECT TEXT

Score: 4%



**Task**  
 Schedule a pod as follows:  
 • Name: nginx-kusc00401

- Image: nginx
- Node selector: disk=ssd

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:  
#yaml  
apiVersion: v1  
kind: Pod  
metadata:  
name: nginx-kusc00401  
spec:  
containers:  
- name: nginx  
image: nginx  
imagePullPolicy: IfNotPresent  
nodeSelector:  
disk: spinning  
#  
kubectl create -f node-select.yaml

**NEW QUESTION 8**

CORRECT TEXT

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 9**

CORRECT TEXT

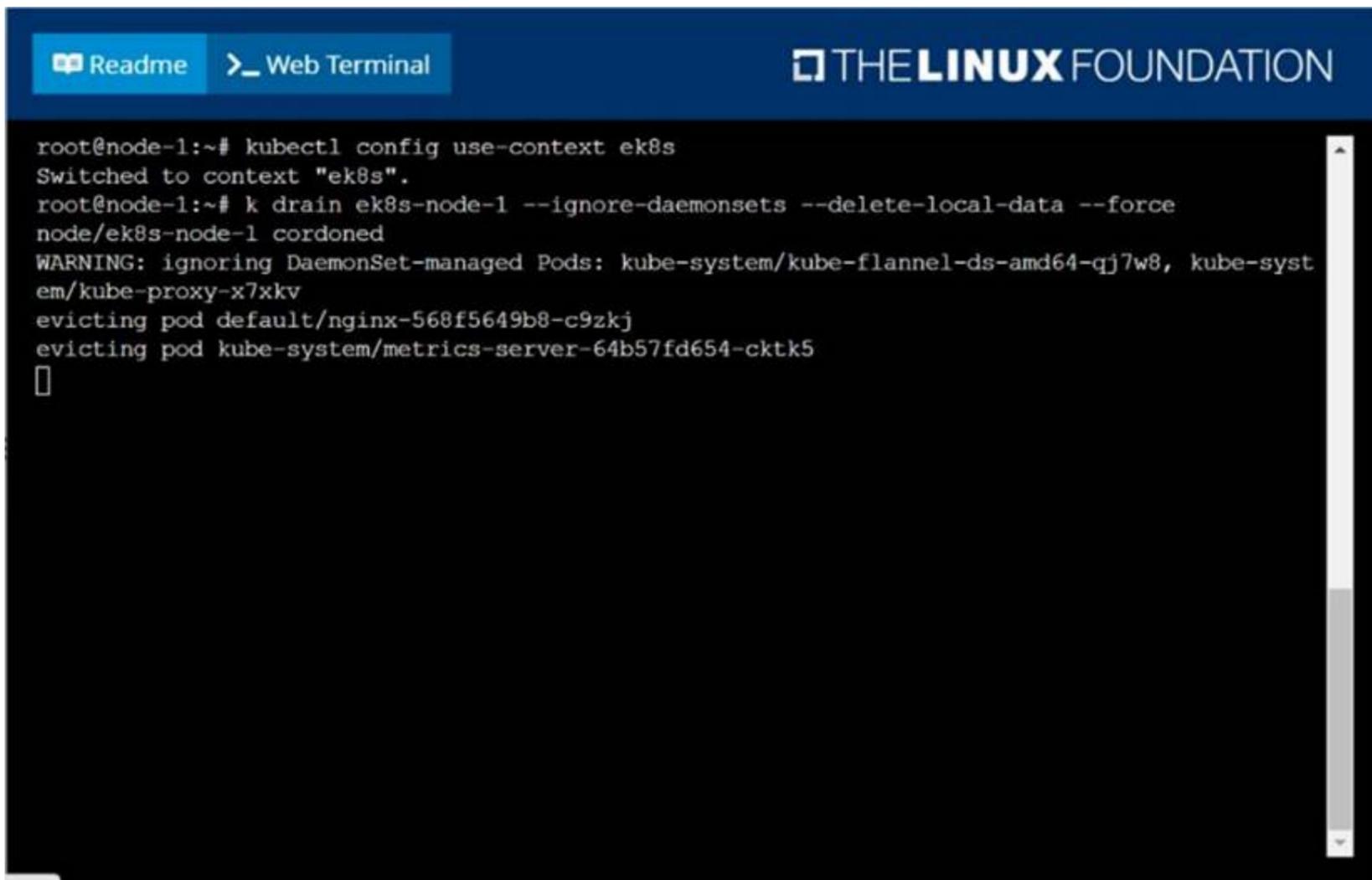
Set the node named ek8s-node-1 as unavailable and reschedule all the pods running on it.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution



```
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-system/kube-proxy-x7xkv
evicting pod default/nginx-568f5649b8-c9zkj
evicting pod kube-system/metrics-server-64b57fd654-cktk5
█
```

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#### NEW QUESTION 10

##### CORRECT TEXT

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

Readme Web Terminal THE LINUX FOUNDATION

```
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
```

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**NEW QUESTION 10**

CORRECT TEXT

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

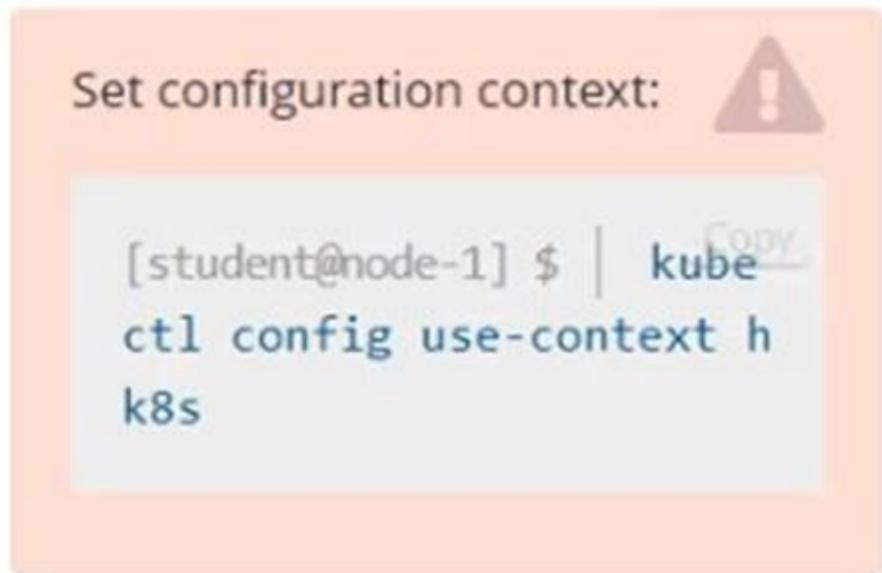
```
THE LINUX FOUNDATION
Readme Web Terminal
student@node-1:~$
student@node-1:~$ sudo -i
root@node-1:~# alias k=kubectl
root@node-1:~#
```

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```
THE LINUX FOUNDATION
Readme Web Terminal
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:~#
```

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NEW QUESTION 15  
CORRECT TEXT  
Score: 7%



**Task**

Create a new NetworkPolicy named allow-port-from-namespace in the existing namespace echo. Ensure that the new NetworkPolicy allows Pods in namespace my-app to connect to port 9000 of Pods in namespace echo.

Further ensure that the new NetworkPolicy:

- does not allow access to Pods, which don't listen on port 9000
- does not allow access from Pods, which are not in namespace my-app

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:

```
#network.yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: allow-port-from-namespace
  namespace: internal
spec:
  podSelector:
    matchLabels: {
    }
  policyTypes:
  - Ingress
  ingress:
  - from:
  - podSelector: {
  }
  ports:
  - protocol: TCP
    port: 8080
#spec.podSelector namespace pod
kubectl create -f network.yaml
```

**NEW QUESTION 16**

CORRECT TEXT

Score: 7%



**Task**

Create a new nginx Ingress resource as follows:

- Name: ping
- Namespace: ing-internal

- Exposing service hi on path /hi using service port 5678



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:  
vi ingress.yaml  
#  
apiVersion: networking.k8s.io/v1  
kind: Ingress  
metadata:  
name: ping  
namespace: ing-internal  
spec:  
rules:  
- http:  
paths:  
- path: /hi  
pathType: Prefix  
backend:  
service:  
name: hi  
port:  
number: 5678  
#  
kubectl create -f ingress.yaml

#### NEW QUESTION 20

CORRECT TEXT

Check the Image version of nginx-dev pod using jsonpath

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

#### NEW QUESTION 23

CORRECT TEXT

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 24**

CORRECT TEXT

Score: 4%



Task

Scale the deployment presentation to 6 pods.

A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

Solution:

kubectl get deployment

kubectl scale deployment.apps/presentation --replicas=6

**NEW QUESTION 25**

CORRECT TEXT

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



```

Readme Web 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:~#

```

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**NEW QUESTION 27**

CORRECT TEXT

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:**

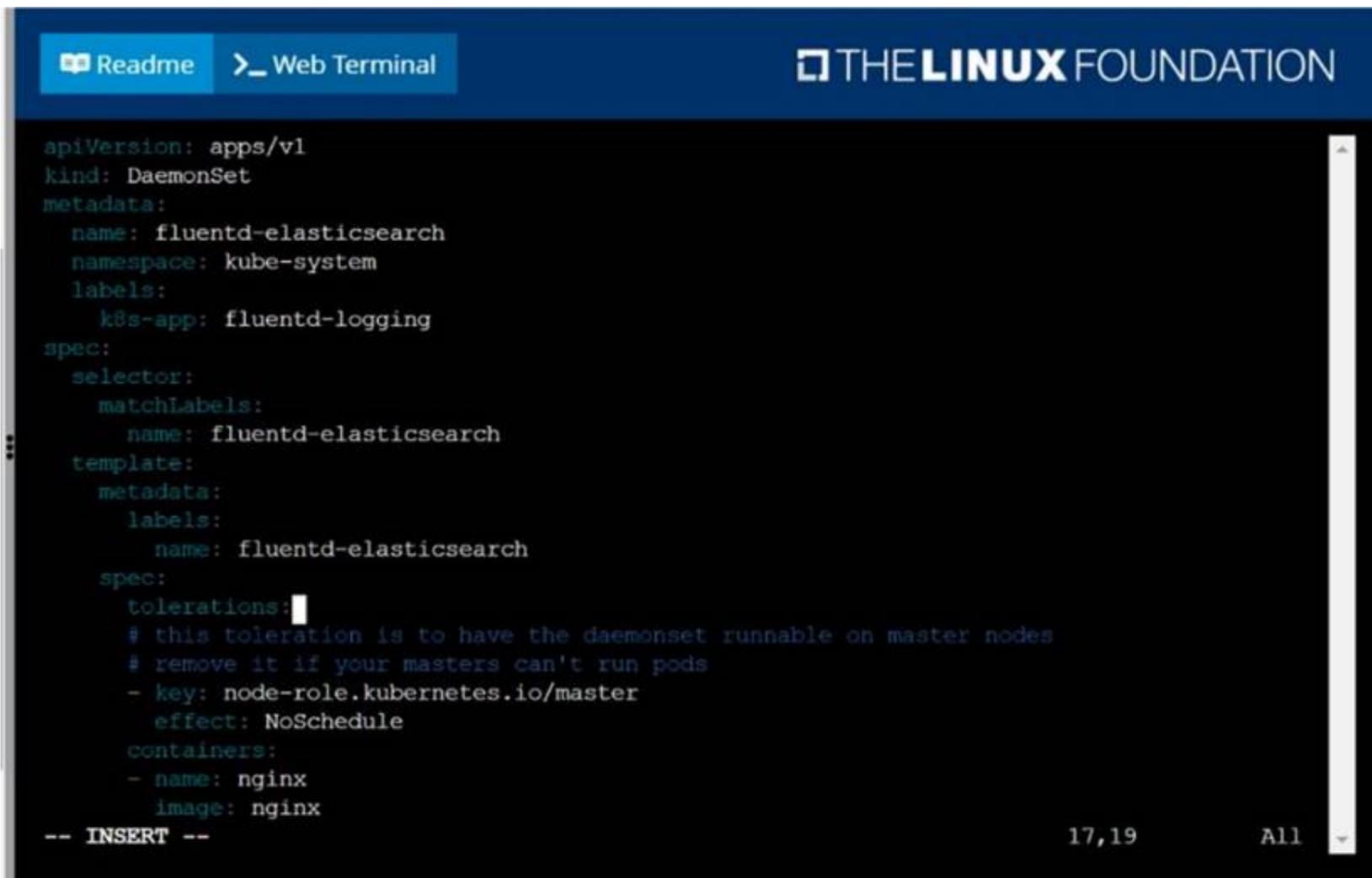
solution

```

Readme Web Terminal THE LINUX FOUNDATION
root@node-1:~# vim ds.yaml
i

```

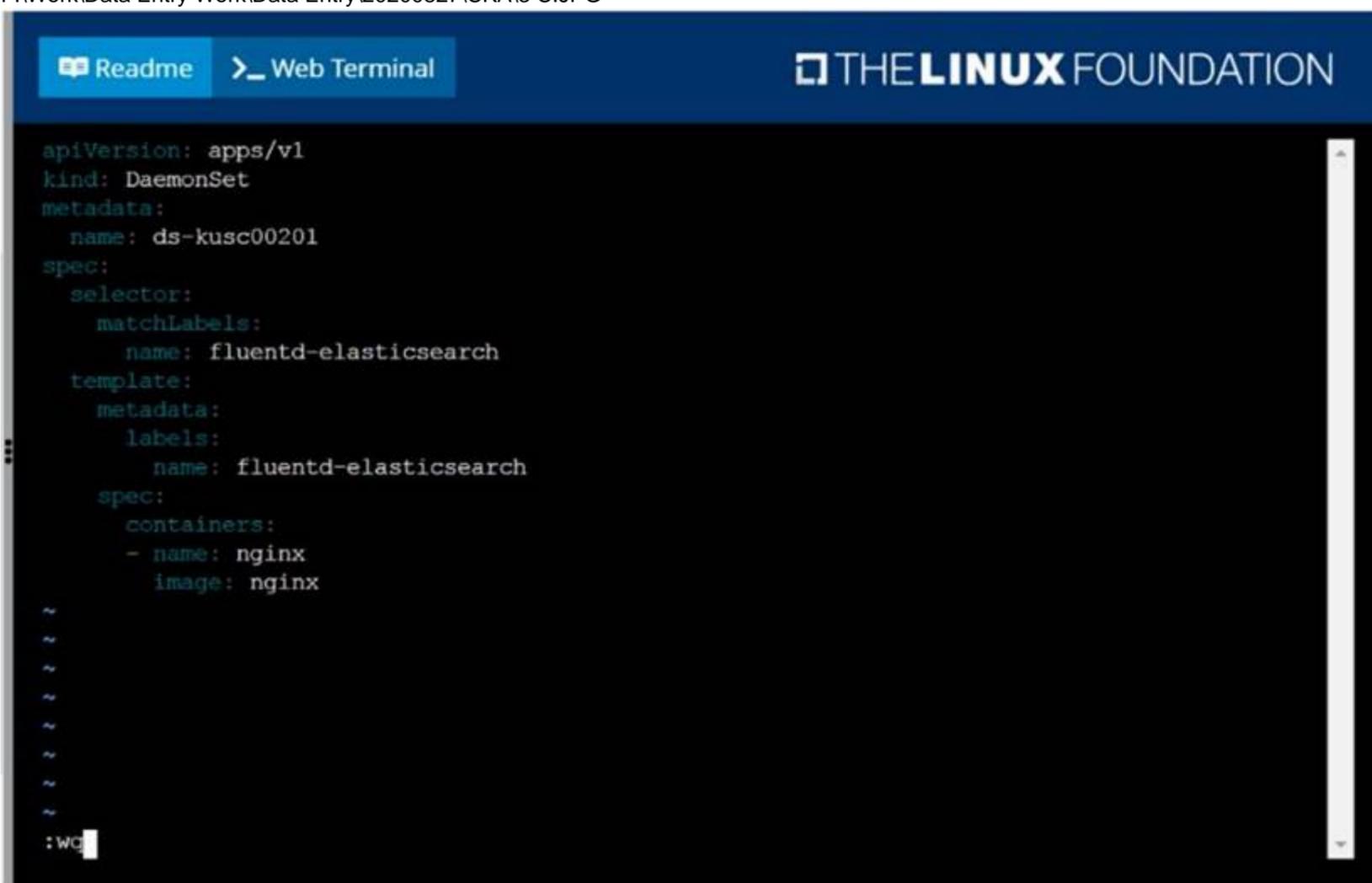
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The screenshot shows a web terminal interface with a dark background and light text. At the top, there are navigation tabs for 'Readme' and 'Web Terminal', and the 'THE LINUX FOUNDATION' logo on the right. The main content is a YAML manifest for a DaemonSet. The manifest includes fields for apiVersion, kind, metadata (name, namespace, labels), spec (selector, matchLabels, template), and containers (nginx). A comment explains a toleration for master nodes. The terminal shows the cursor at the end of the 'tolerations' list. At the bottom right, there are page indicators '17,19' and '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 similar to the first one. The main content is a YAML manifest for a DaemonSet. The manifest includes fields for apiVersion, kind, metadata (name), spec (selector, matchLabels, template), and containers (nginx). The terminal shows the cursor at the end of the 'containers' list. At the bottom left, there is a prompt ':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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```

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:~#
    
```

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**NEW QUESTION 32**

CORRECT TEXT

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 33**

CORRECT TEXT

Score: 13%



**Task**  
 A Kubernetes worker node, named wk8s-node-0 is in state NotReady. Investigate why this is the case, and perform any appropriate steps to bring the node to a Ready state, ensuring that any changes are made permanent.

You can ssh to the failed node using: 

```
[student@node-1] $ | ssh  
wk8s-node-0
```

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

```
[student@wk8s-node-0] $ |  
sudo -i
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:  
 sudo -i  
 systemctl status kubelet  
 systemctl start kubelet  
 systemctl enable kubelet

**NEW QUESTION 38**

CORRECT TEXT  
 Task Weight: 4%

Set configuration context: 

```
[student@node-1] $ | kubectl config  
use-context k8s
```

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 43**

CORRECT TEXT

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 48**

CORRECT TEXT

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 53**

CORRECT TEXT

Perform the following tasks:

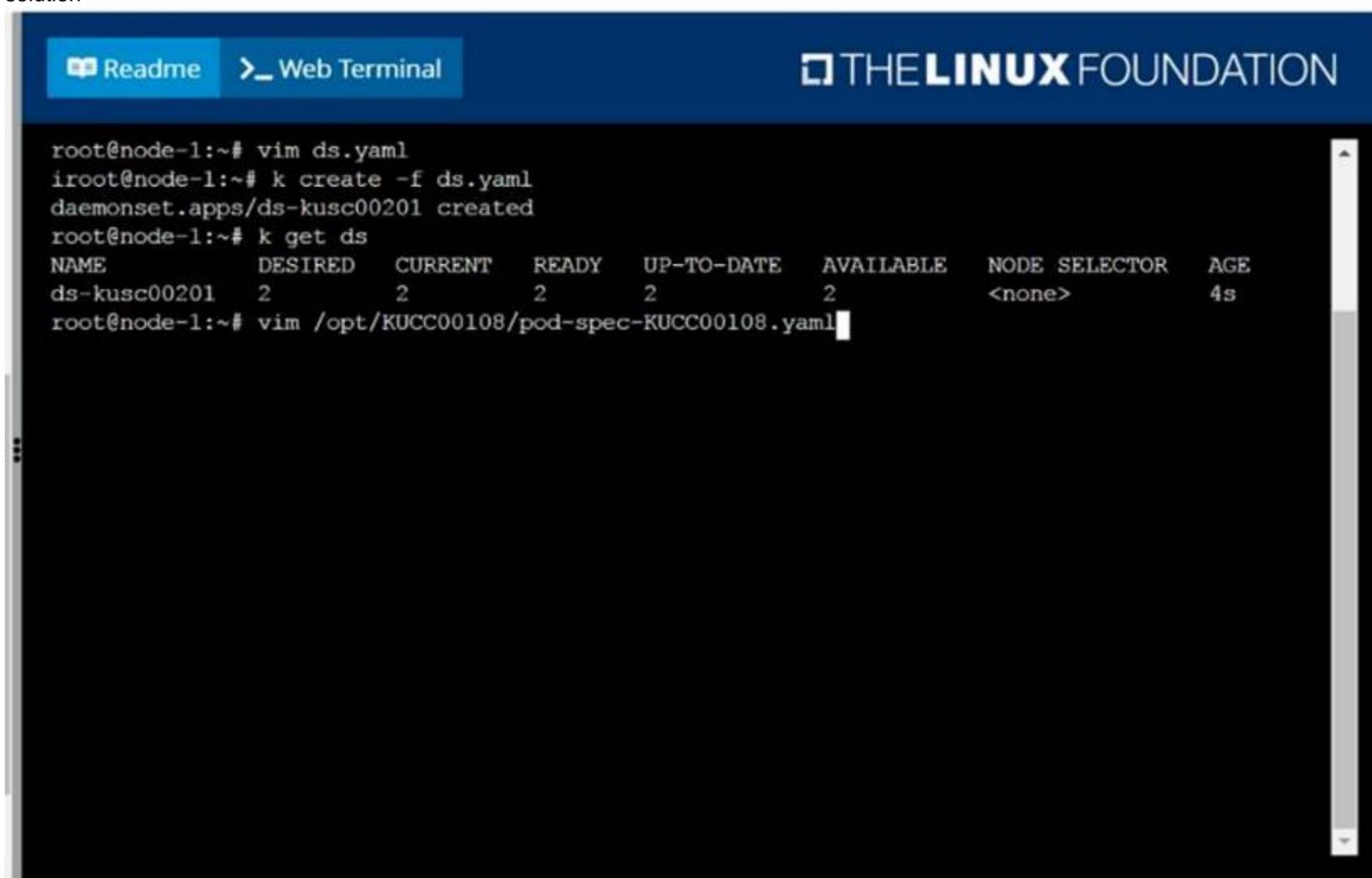
- ? Add an init container to hungry-bear (which has been defined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)
- ? The init container should create an empty file named/workdir/calm.txt
- ? If /workdir/calm.txt is not detected, the pod should exit
- ? Once the spec file has been updated with the init container definition, the pod should be created

A.

**Answer:** Seethesolutionbelow.

**Explanation:**

solution



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```

apiVersion: v1
kind: Pod
metadata:
  name: hungry-bear
spec:
  volumes:
  - name: workdir
    emptyDir: {}
  containers:
  - name: checker
    image: alpine
    command: ["/bin/sh", "-c", "if [ -f /workdir/calm.txt ]; then sleep 100000; else exit 1; fi"]
    volumeMounts:
    - name: workdir
      mountPath: /workdir
  initContainers:
  - name: create
    image: alpine
    command: ["/bin/sh", "-c", "touch /workdir/calm.txt"]
    volumeMounts:
    - name: workdir
      mountPath: /workdir
:wc

```

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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:~#

```

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**NEW QUESTION 54**

CORRECT TEXT

Configure the kubelet systemd- managed service, on the node labelled with name=wk8s- node-1, to launch a pod containing a single container of Image httpd named webtool automatically. Any spec files required should be placed in the /etc/kubernetes/manifests directory on the node.

You can ssh to the appropriate node using:

```
[student@node-1] $ ssh wk8s-node-1
```

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

```
[student@wk8s-node-1] $ | sudo -i
```

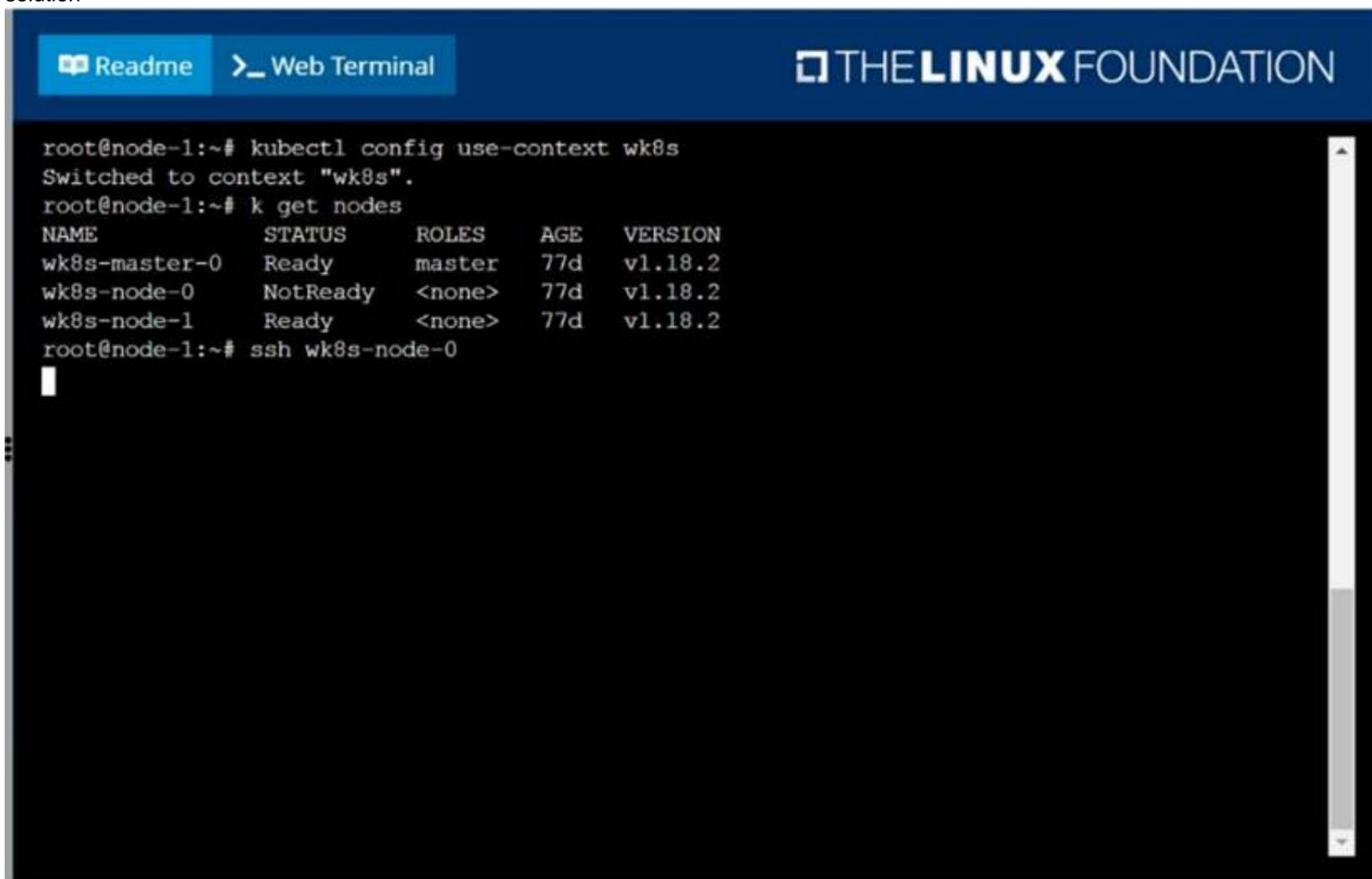
- A. Mastered
- B. Not Mastered

**Answer: A**



Answer: A

Explanation:  
 solution

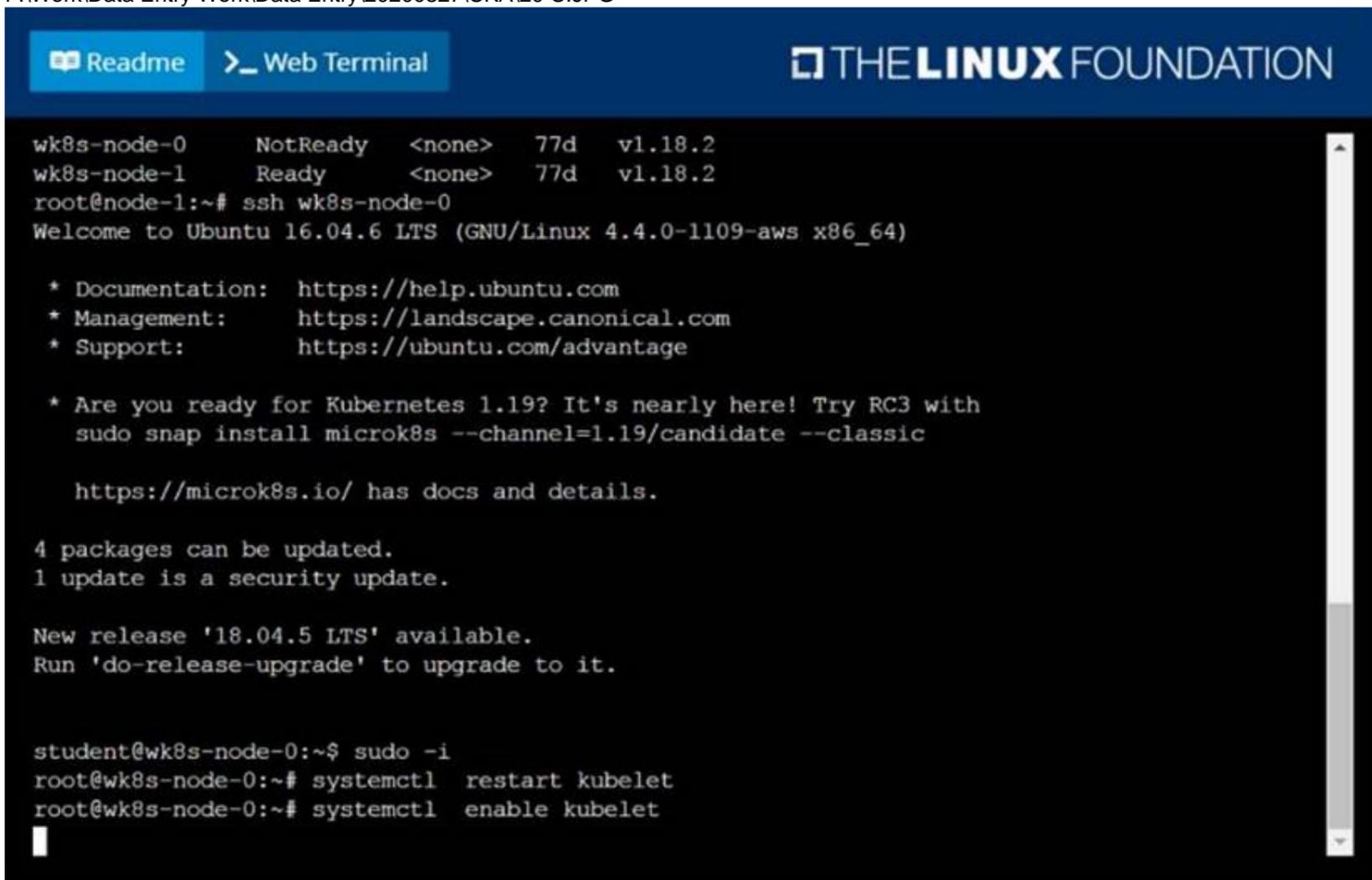


The screenshot shows a terminal window with the following commands and output:

```

root@node-1:~# kubectl config use-context wk8s
Switched to context "wk8s".
root@node-1:~# k get nodes
NAME             STATUS    ROLES    AGE   VERSION
wk8s-master-0   Ready     master   77d   v1.18.2
wk8s-node-0     NotReady <none>   77d   v1.18.2
wk8s-node-1     Ready     <none>   77d   v1.18.2
root@node-1:~# ssh wk8s-node-0
  
```

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The screenshot shows a terminal window with the following commands and output:

```

wk8s-node-0     NotReady <none>   77d   v1.18.2
wk8s-node-1     Ready     <none>   77d   v1.18.2
root@node-1:~# ssh wk8s-node-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@wk8s-node-0:~$ sudo -i
root@wk8s-node-0:~# systemctl restart kubelet
root@wk8s-node-0:~# systemctl enable kubelet
  
```

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[Readme](#)
>
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```

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@wk8s-node-0:~$ sudo -i
root@wk8s-node-0:~# systemctl restart kubelet
root@wk8s-node-0:~# systemctl enable kubelet
Created symlink from /etc/systemd/system/multi-user.target.wants/kubelet.service to /lib/systemd/system/kubelet.service.
root@wk8s-node-0:~# exit
logout
student@wk8s-node-0:~$ exit
logout
Connection to 10.250.5.34 closed.
root@node-1:~# k get nodes
NAME                STATUS    ROLES    AGE   VERSION
wk8s-master-0      Ready    master   77d   v1.18.2
wk8s-node-0        Ready    <none>   77d   v1.18.2
wk8s-node-1        Ready    <none>   77d   v1.18.2
root@node-1:~# █
    
```

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**NEW QUESTION 62**

CORRECT TEXT

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 65**

CORRECT TEXT

Create a persistent volume with name app-data, of capacity 2Gi and access mode ReadWriteMany. The type of volume is hostPath and its location is /srv/app-data.

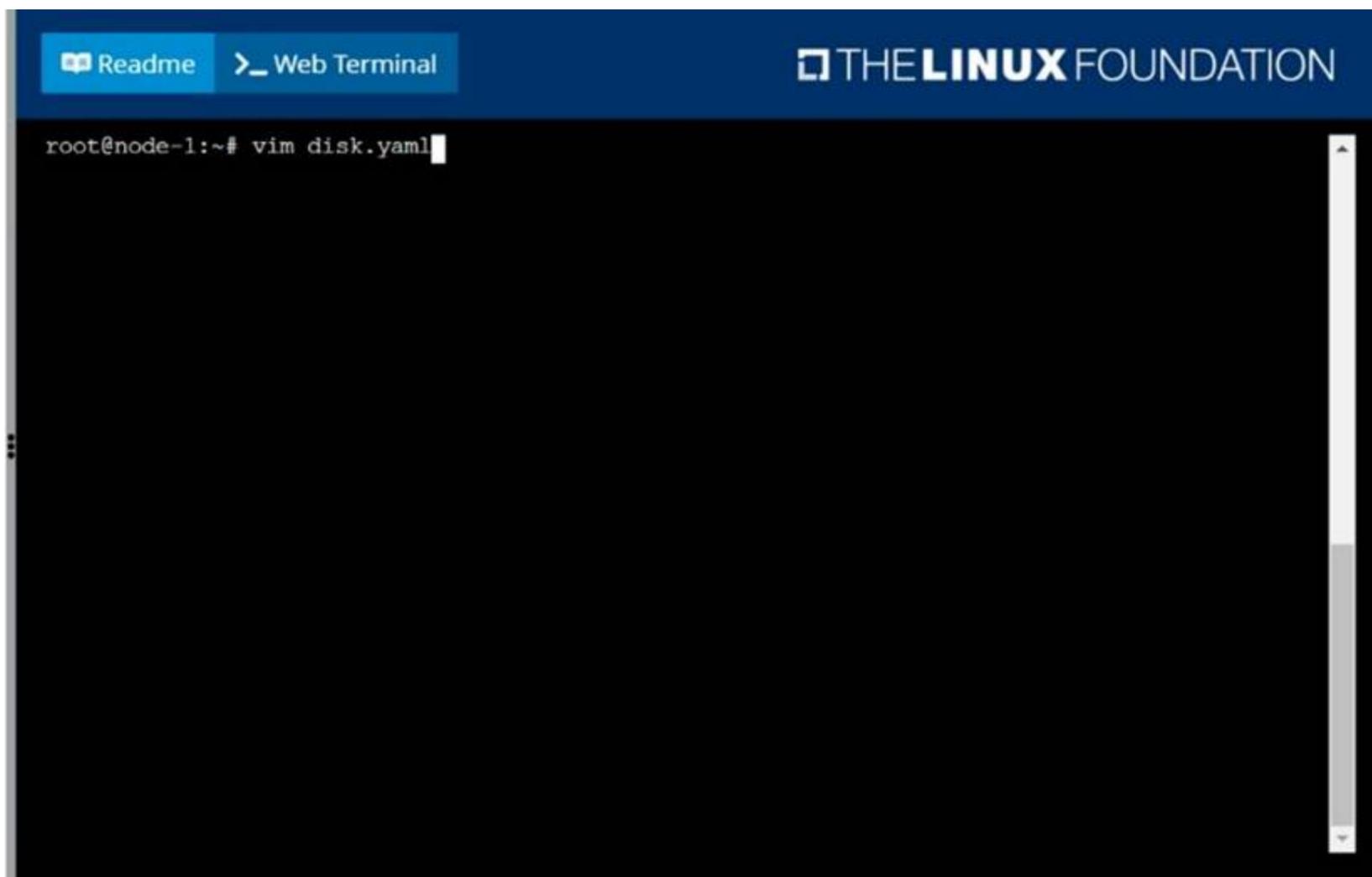
- A. Mastered
- B. Not Mastered

**Answer:** A

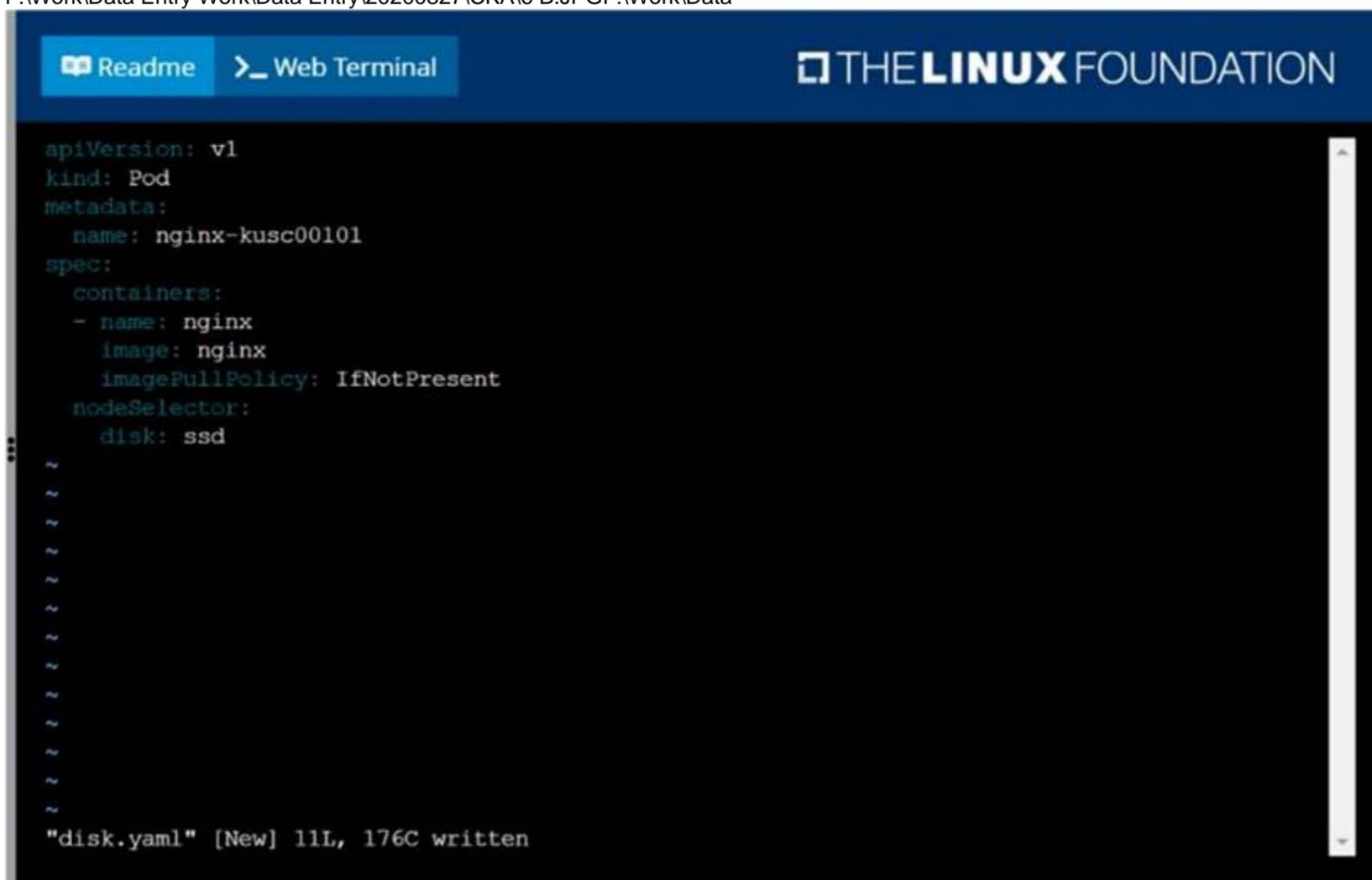
**Explanation:**

solution  
 Persistent Volume  
 A persistent volume is a piece of storage in a Kubernetes cluster. PersistentVolumes are a cluster-level resource like nodes, which don't belong to any namespace. It is provisioned by the administrator and has a particular file size. This way, a developer deploying their app on Kubernetes need not know the underlying infrastructure. When the developer needs a certain amount of persistent storage for their application, the system administrator configures the cluster so that they consume the PersistentVolume provisioned in an easy way.  
 Creating Persistent Volume  
 kind: PersistentVolumeapiVersion: v1metadata: name:app-dataspec: capacity: # defines the capacity of PV we are creating storage: 2Gi #the amount of storage we are trying to claim accessModes: # defines the rights of the volume we are creating - ReadWriteMany hostPath: path: "/srv/app-data" # path to which we are creating the volume  
 Challenge  
 ? Create a Persistent Volume named app-data, with access mode ReadWriteMany, storage classname shared, 2Gi of storage capacity and the host path /srv/app-data.





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```

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-t4791 1/1     Running   0           6h16m
root@node-1:~#

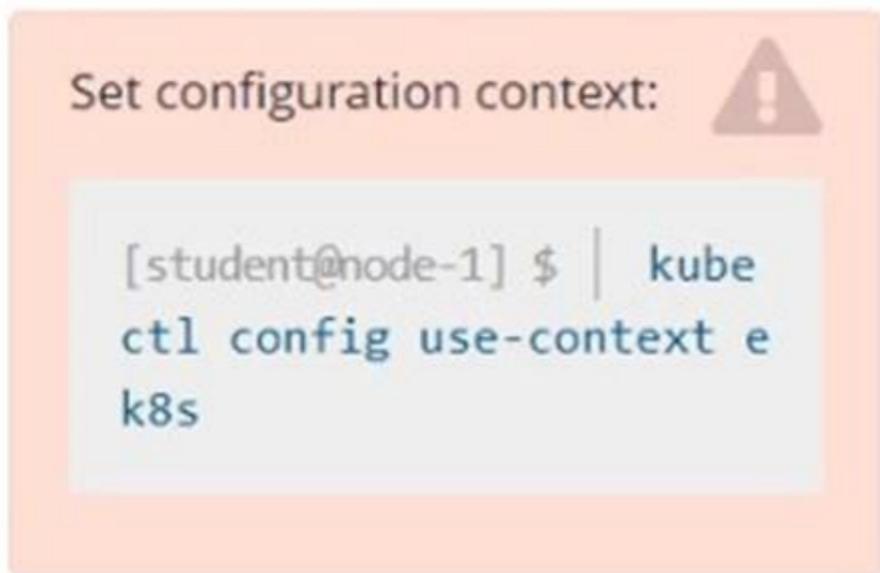
```

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**NEW QUESTION 69**

CORRECT TEXT

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 70**

.....

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