



# Linux-Foundation

## Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

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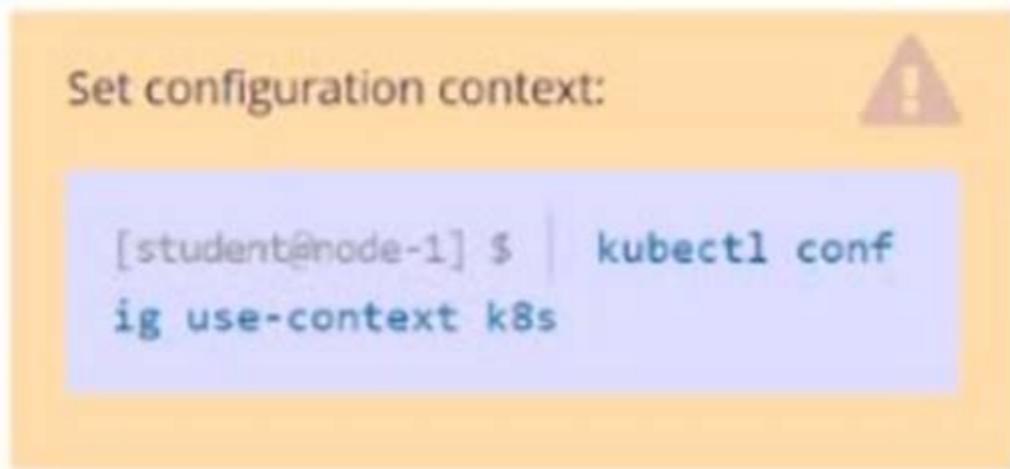
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**NEW QUESTION 1**

CORRECT TEXT

Task Weight: 4%



Task

Schedule a Pod as follows:

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

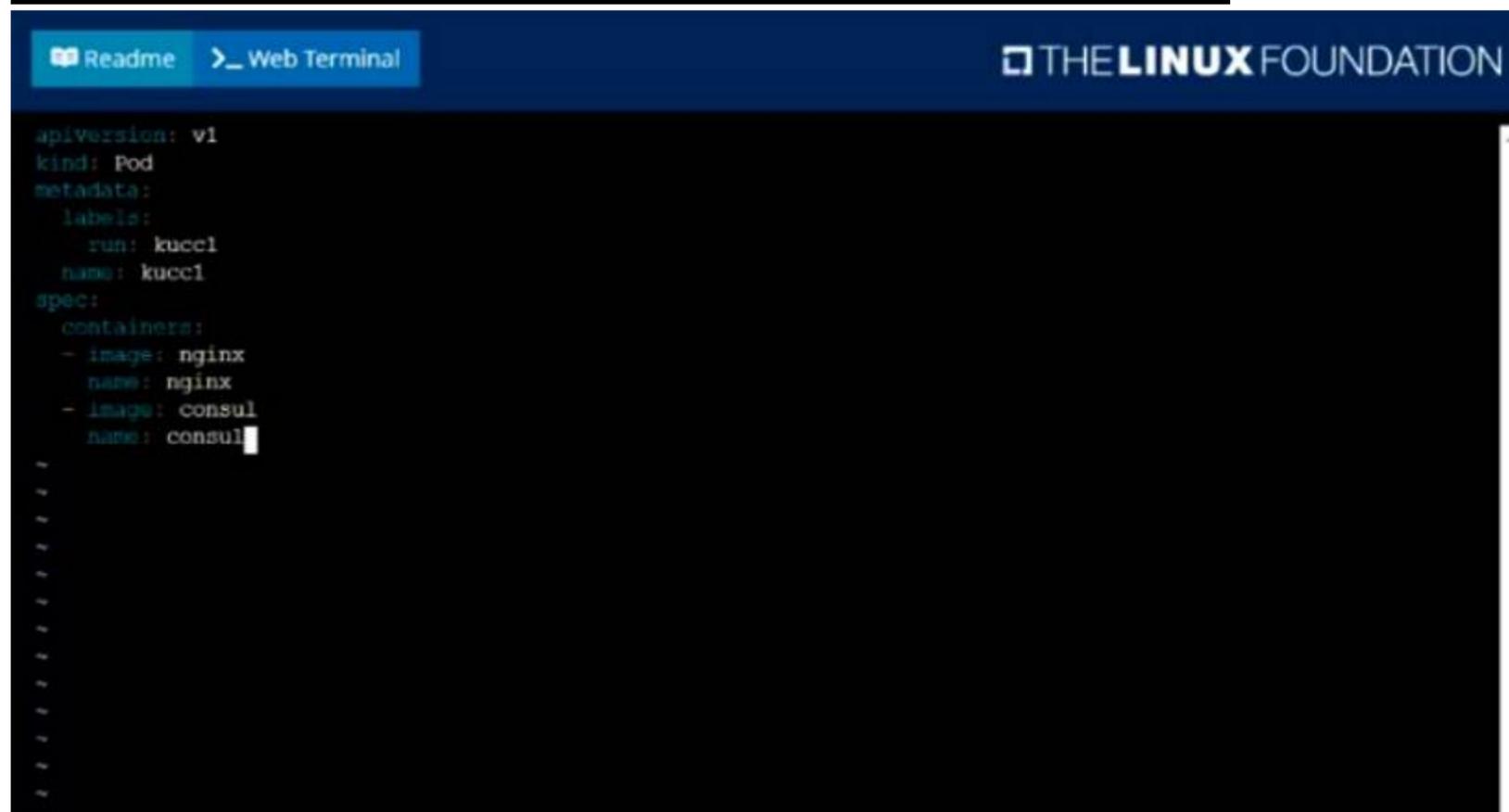
- A. Mastered
- B. Not Mastered

**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 2**

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 3**

CORRECT TEXT

Get IP address of the pod – "nginx-dev"

- A. Mastered
- B. Not Mastered

**Answer:** A

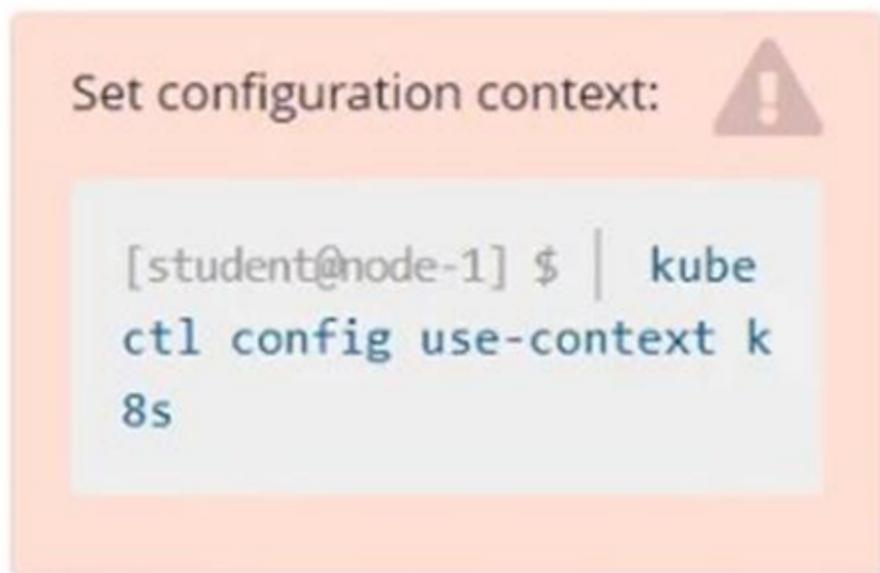
**Explanation:**

Kubect1 get po -o wide  
 Using JsonPath  
 kubectl get pods -o=jsonpath='{range items[\*]}{.metadata.name}{\t"}{.status.podIP}{\n"}{end}'

**NEW QUESTION 4**

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 5

CORRECT TEXT

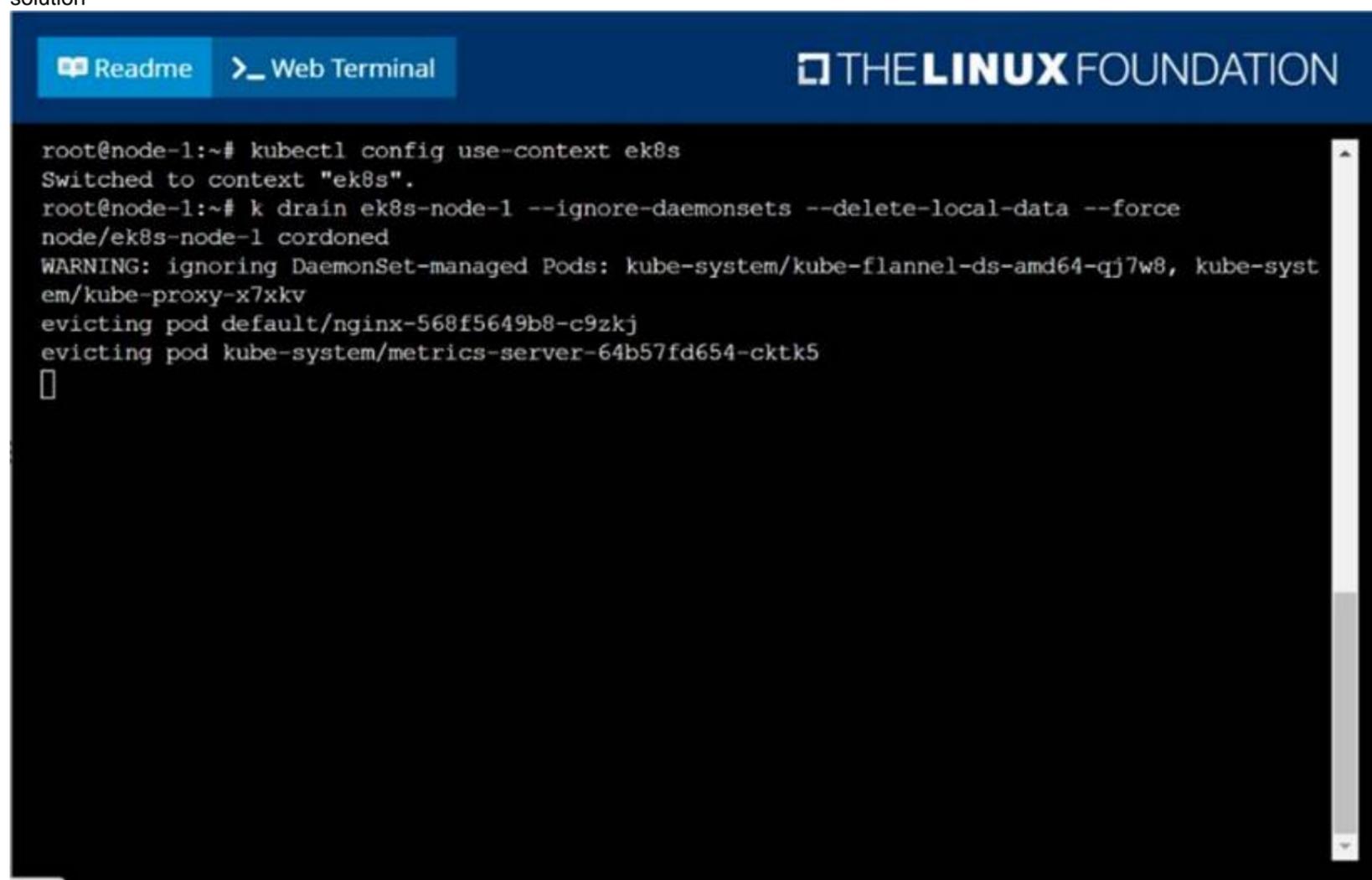
Set the node named ek8s-node-1 as unavailable and reschedule all the pods running on it.

- 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 6

CORRECT TEXT

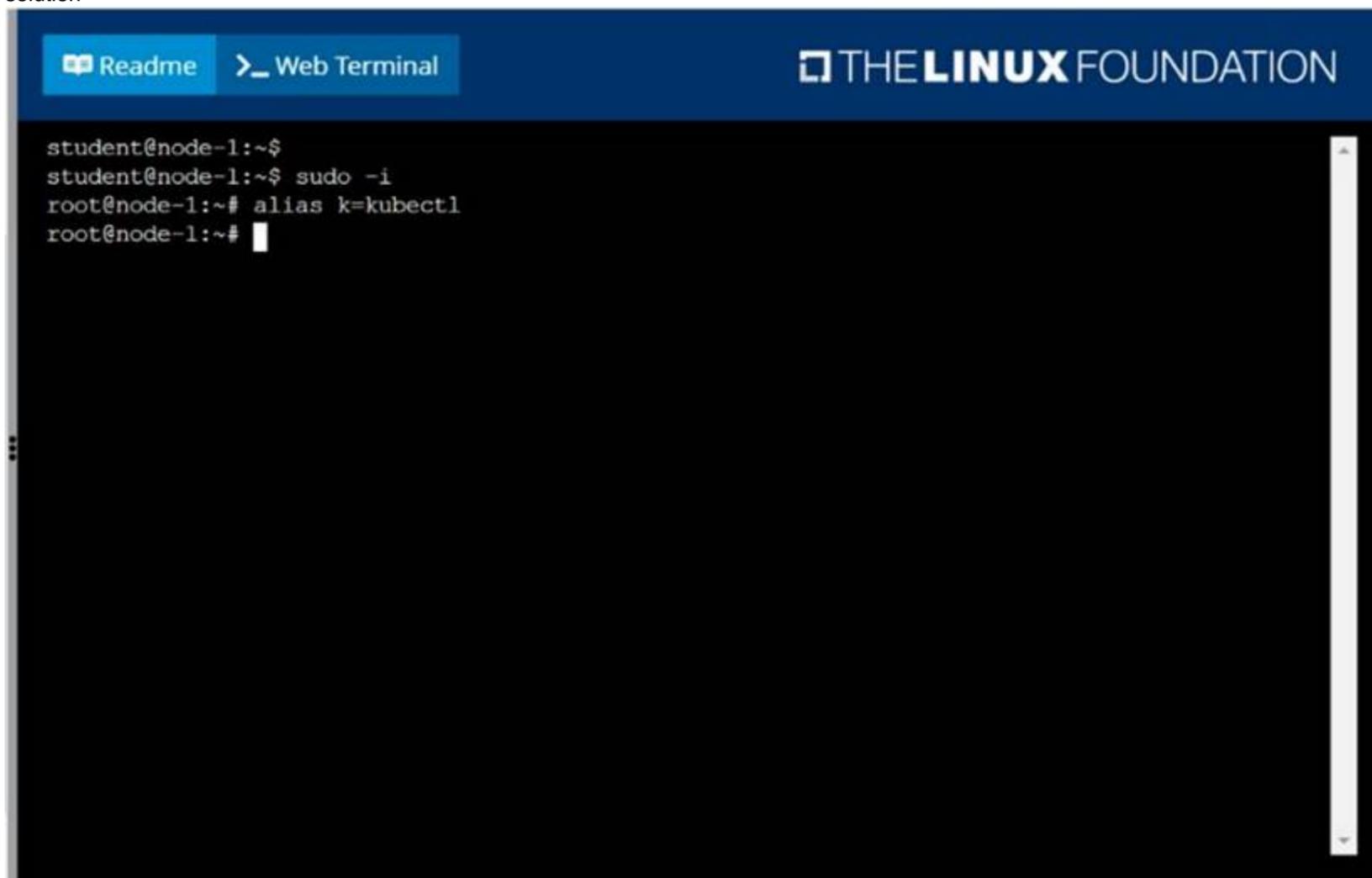
Monitor the logs of pod foo and:  
? Extract log lines corresponding to error  
unable-to-access-website  
? Write them to/opt/KULM00201/foo

- A. Mastered
- B. Not Mastered

**Answer:** A

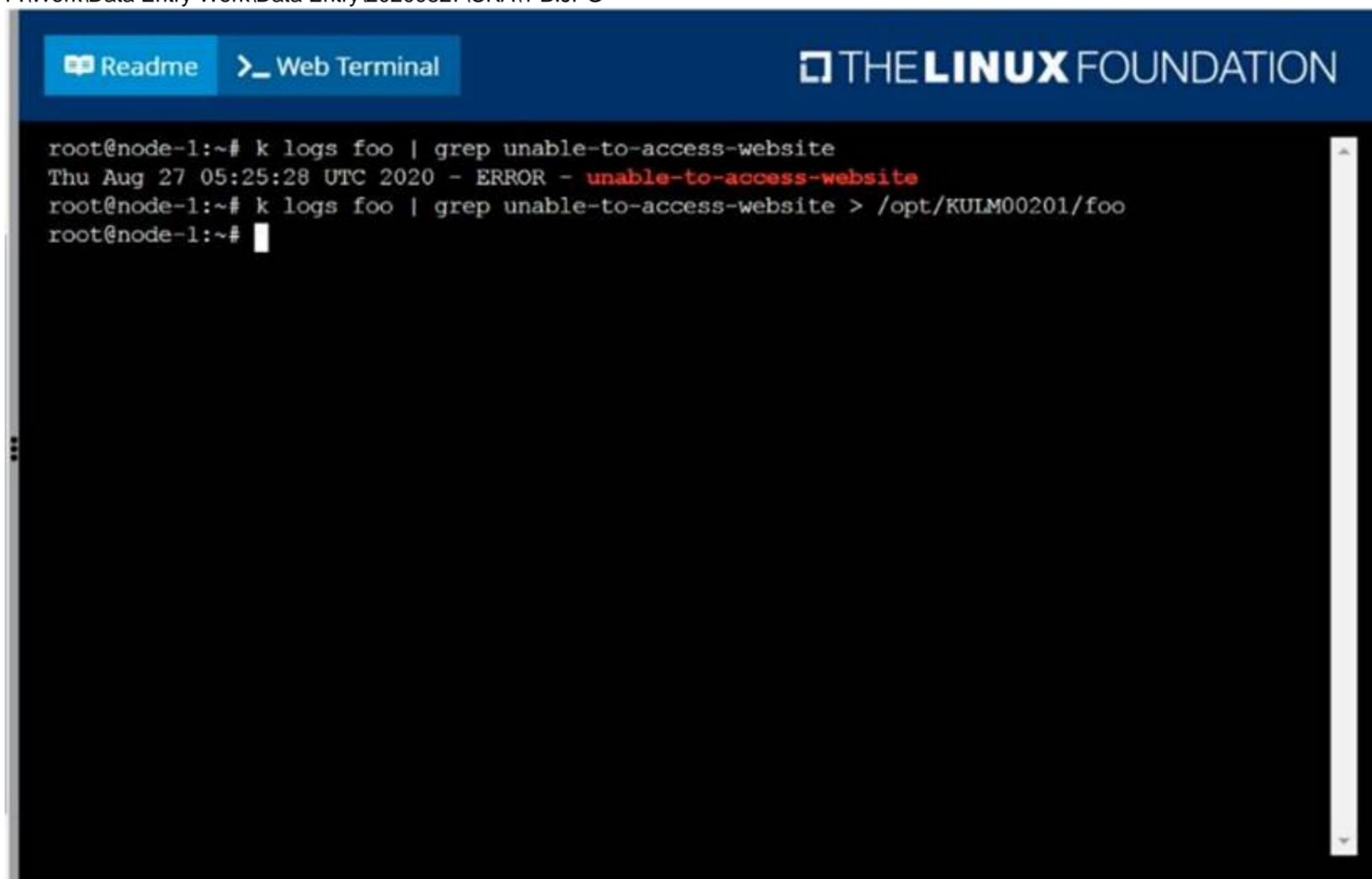
**Explanation:**

solution



```
student@node-1:~$  
student@node-1:~$ sudo -i  
root@node-1:~# alias k=kubectl  
root@node-1:~#
```

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```
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 7**  
CORRECT TEXT  
Score: 7%



**Task**  
 Reconfigure the existing deployment front-end and add a port specification named http exposing port 80/tcp of the existing container nginx.  
 Create a new service named front-end-svc exposing the container port http.  
 Configure the new service to also expose the individual Pods via a NodePort on the nodes on which they are scheduled.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Solution:**  
 kubectl get deploy front-end  
 kubectl edit deploy front-end -o yaml  
 #port specification named http  
 #service.yaml  
 apiVersion: v1  
 kind: Service  
 metadata:  
 name: front-end-svc  
 labels:  
 app: nginx  
 spec:  
 ports:  
 - port: 80  
 protocol: tcp  
 name: http  
 selector:  
 app: nginx  
 type: NodePort  
 # kubectl create -f service.yaml  
 # kubectl get svc  
 # port specification named http  
 kubectl expose deployment front-end --name=front-end-svc --port=80 --target-port=80 -- type=NodePort

**NEW QUESTION 8**

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 9**

CORRECT TEXT

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 10**

CORRECT TEXT

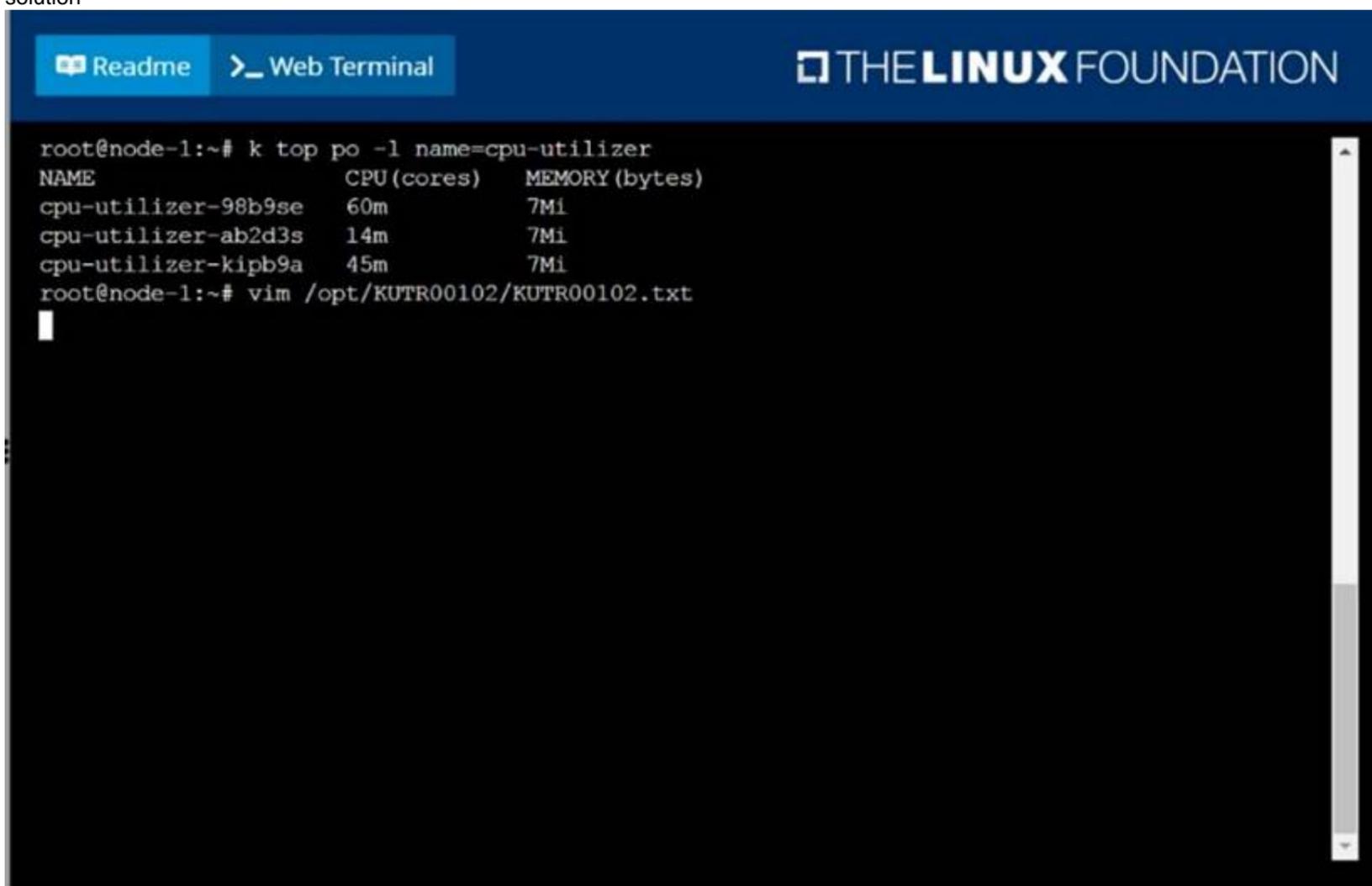
From the pod label name=cpu-utilizer, find pods running high CPU workloads and write the name of the pod consuming most CPU to the file /opt/KUTR00102/KUTR00102.txt (which already exists).

A.

**Answer:** Seethesolutionbelow.

**Explanation:**

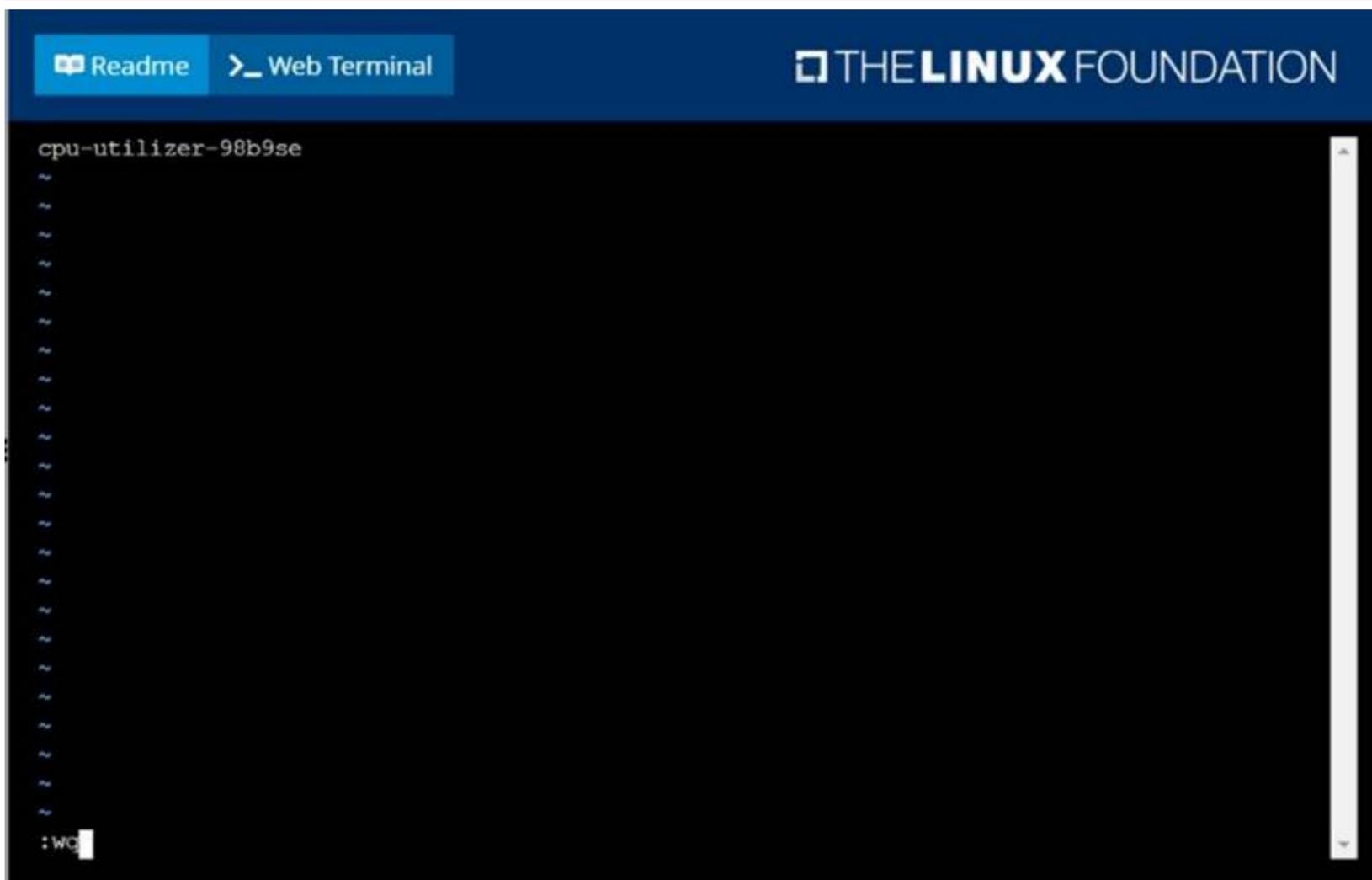
solution



The screenshot shows a web terminal interface with a blue header containing 'Readme' and 'Web Terminal' buttons, and 'THE LINUX FOUNDATION' logo. The terminal output is as follows:

```
root@node-1:~# k top po -l name=cpu-utilizer
NAME                CPU (cores)  MEMORY (bytes)
cpu-utilizer-98b9se  60m          7Mi
cpu-utilizer-ab2d3s  14m          7Mi
cpu-utilizer-kipb9a  45m          7Mi
root@node-1:~# vim /opt/KUTR00102/KUTR00102.txt
```

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**NEW QUESTION 10**

CORRECT TEXT

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 I 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

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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Readme
Web Terminal
THE LINUX FOUNDATION

```

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:~#

```

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**NEW QUESTION 12**

CORRECT TEXT

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

```

Readme  Web Terminal  THE LINUX FOUNDATION

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:~#

```

F:\Work\Data Entry Work\Data Entry\20200827\CKA\9 B.JPG

**NEW QUESTION 16**

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 17**

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.

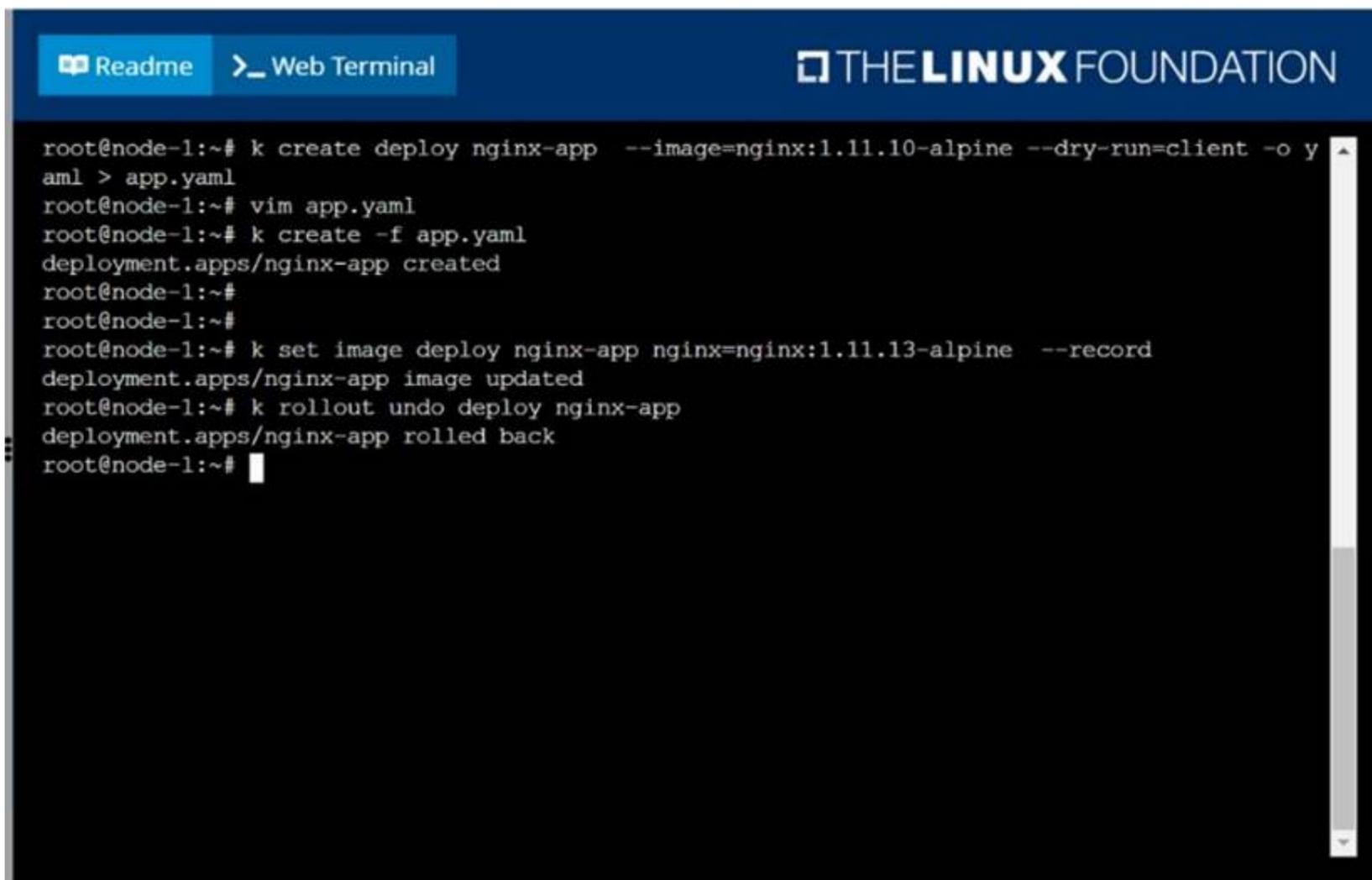
- A. Mastered
- B. Not Mastered

**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 22**

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.

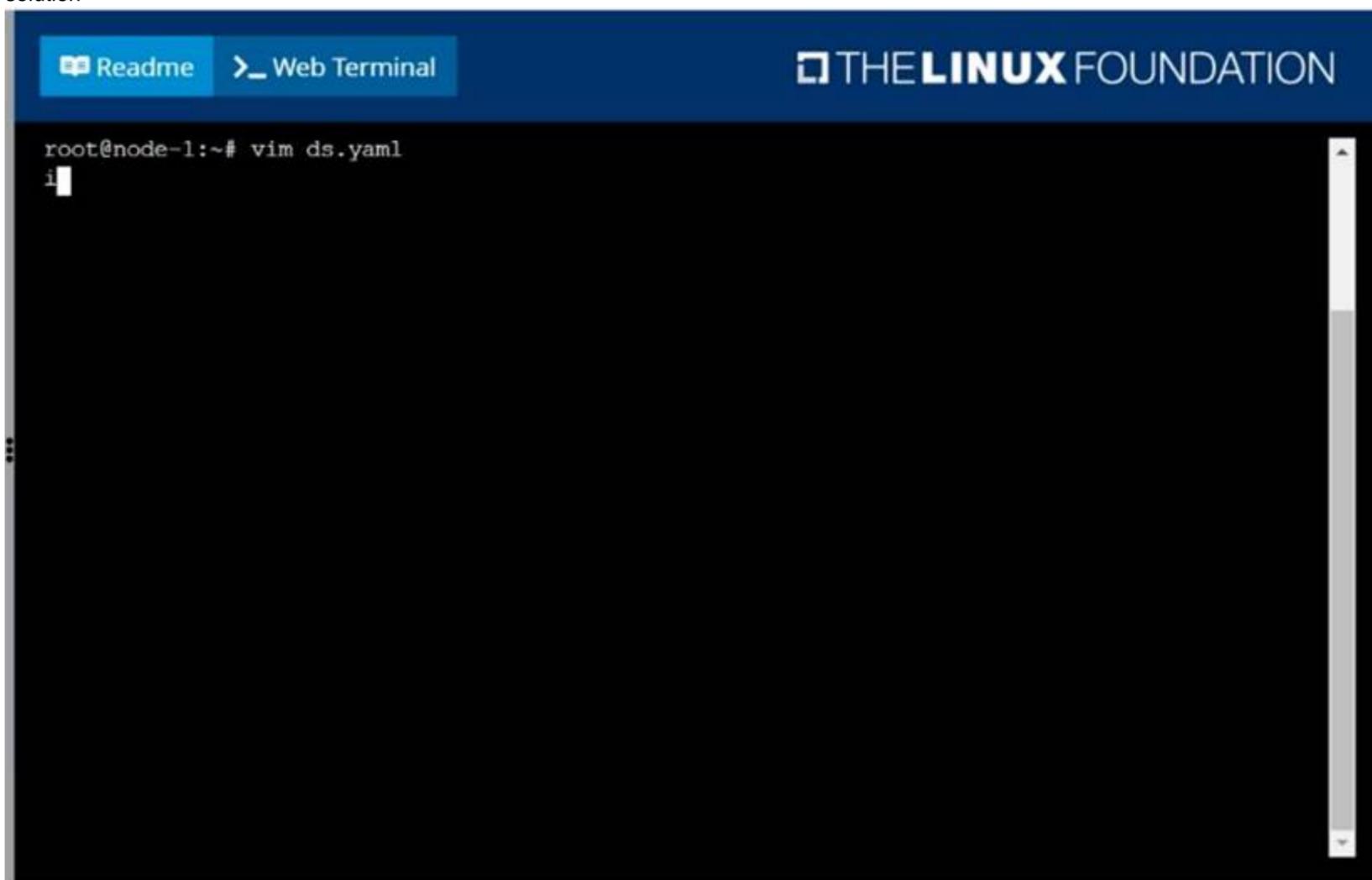
Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.

- 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. At the top, there are tabs for 'Readme' and 'Web Terminal', and the 'THE LINUX FOUNDATION' logo on the right. The terminal content is as follows:

```

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 24**

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 27**

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 28**

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 29**

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 32**

CORRECT TEXT

Perform the following tasks:

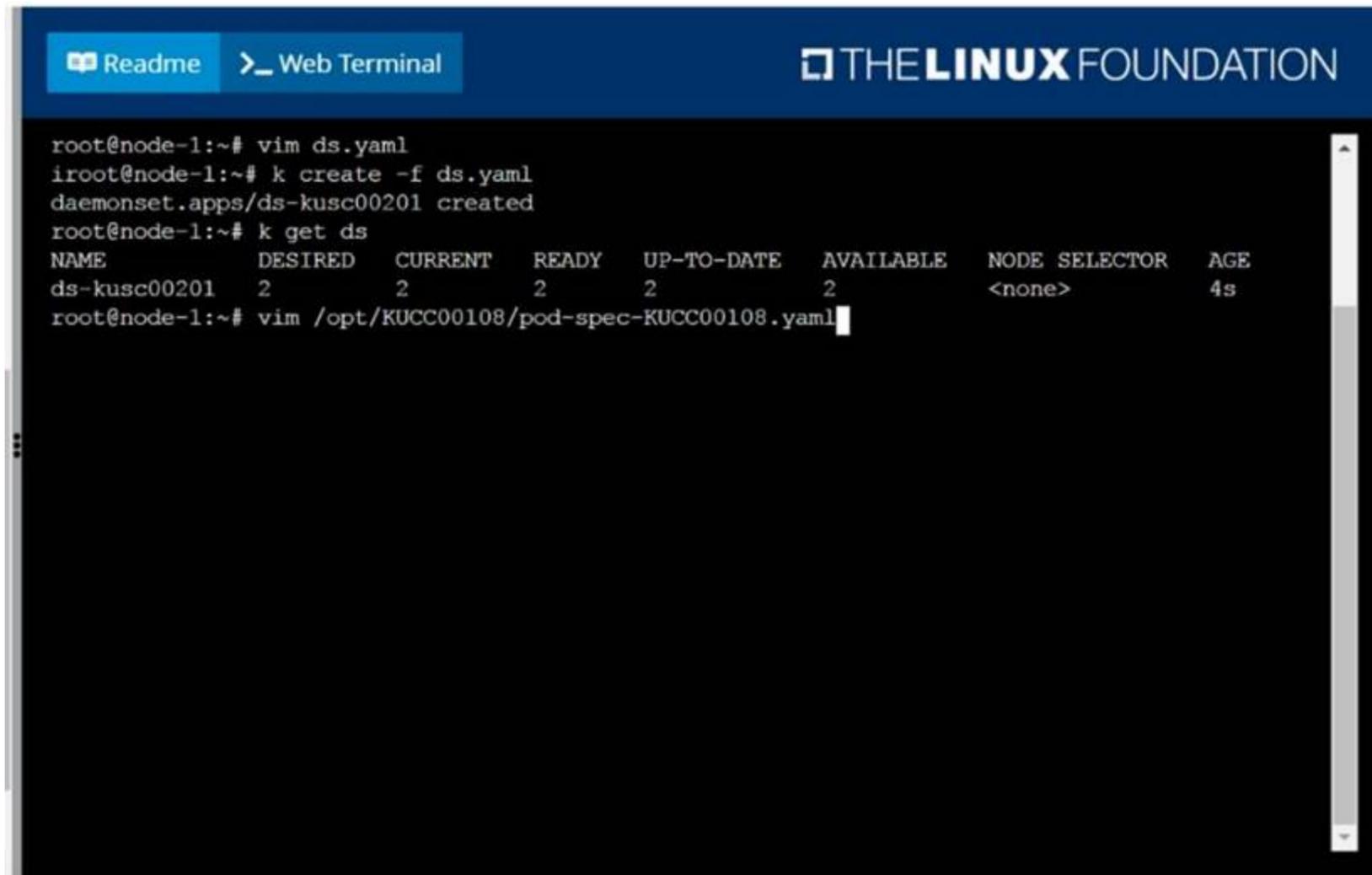
- ? Add an init container to hungry-bear (which has been defined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)
- ? The init container should create an empty file named/workdir/calm.txt
- ? If /workdir/calm.txt is not detected, the pod should exit
- ? Once the spec file has been updated with the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

A.

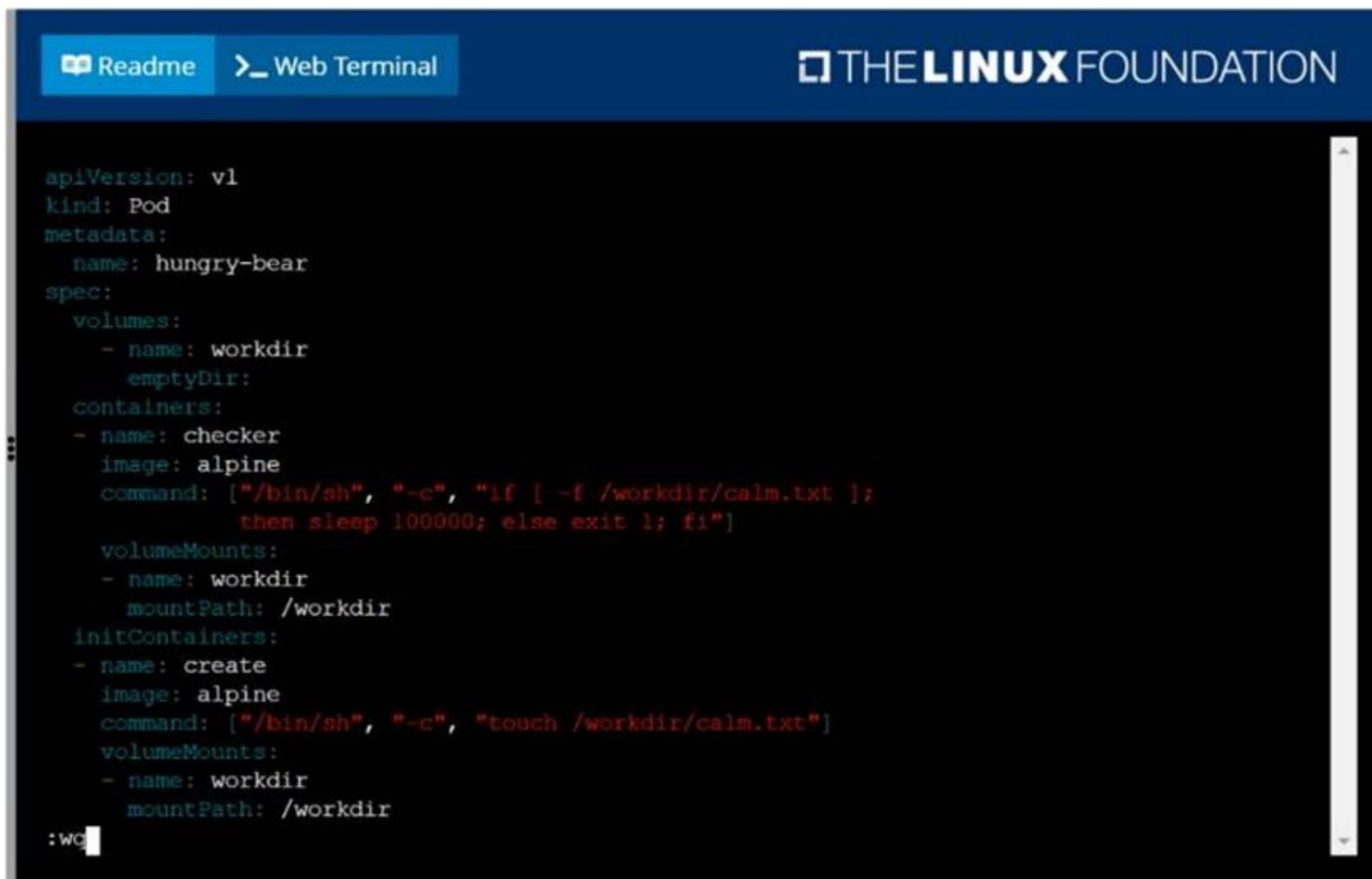
**Answer:** Seethesolutionbelow.

**Explanation:**

solution



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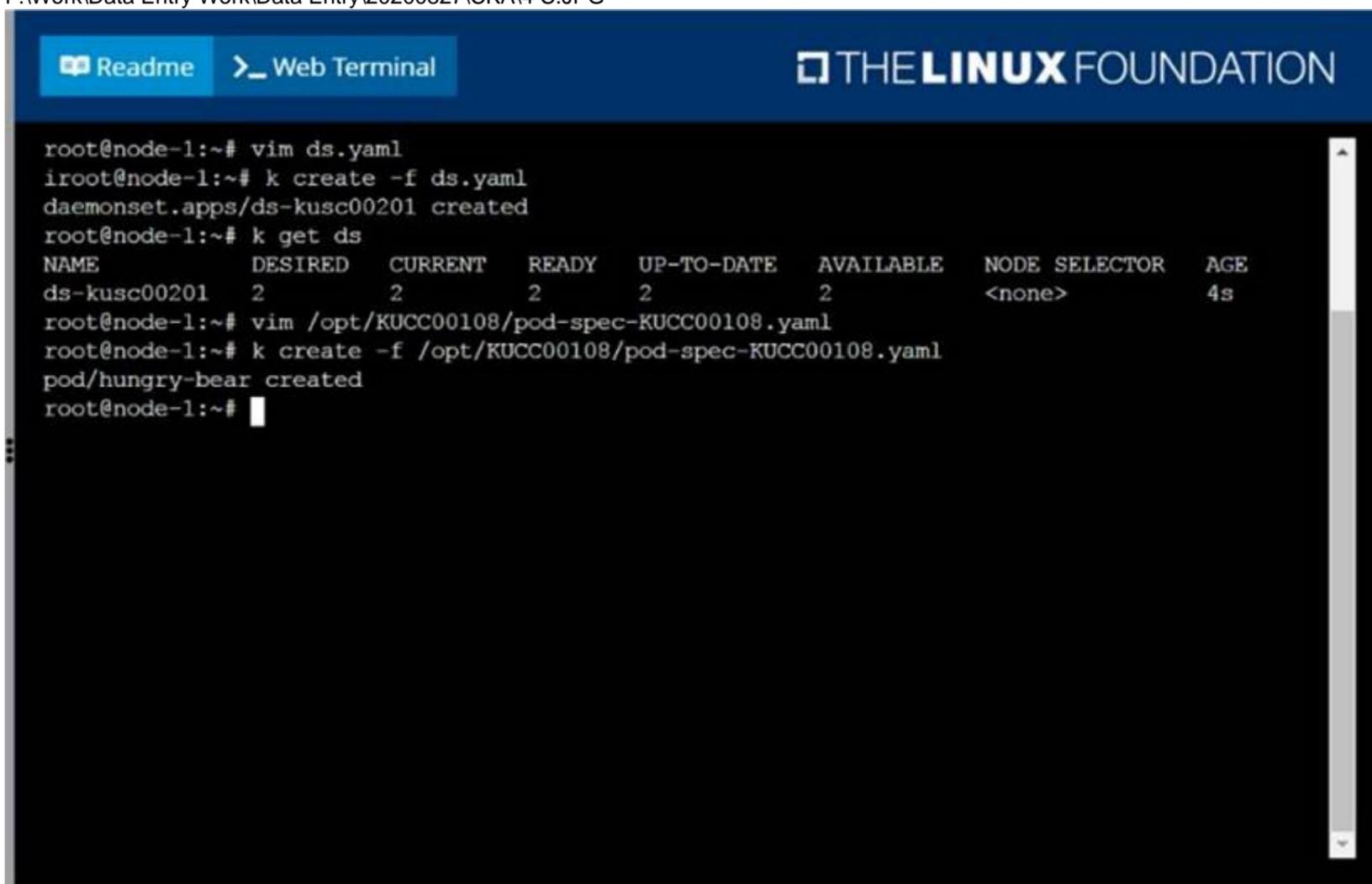


```

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 35**

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

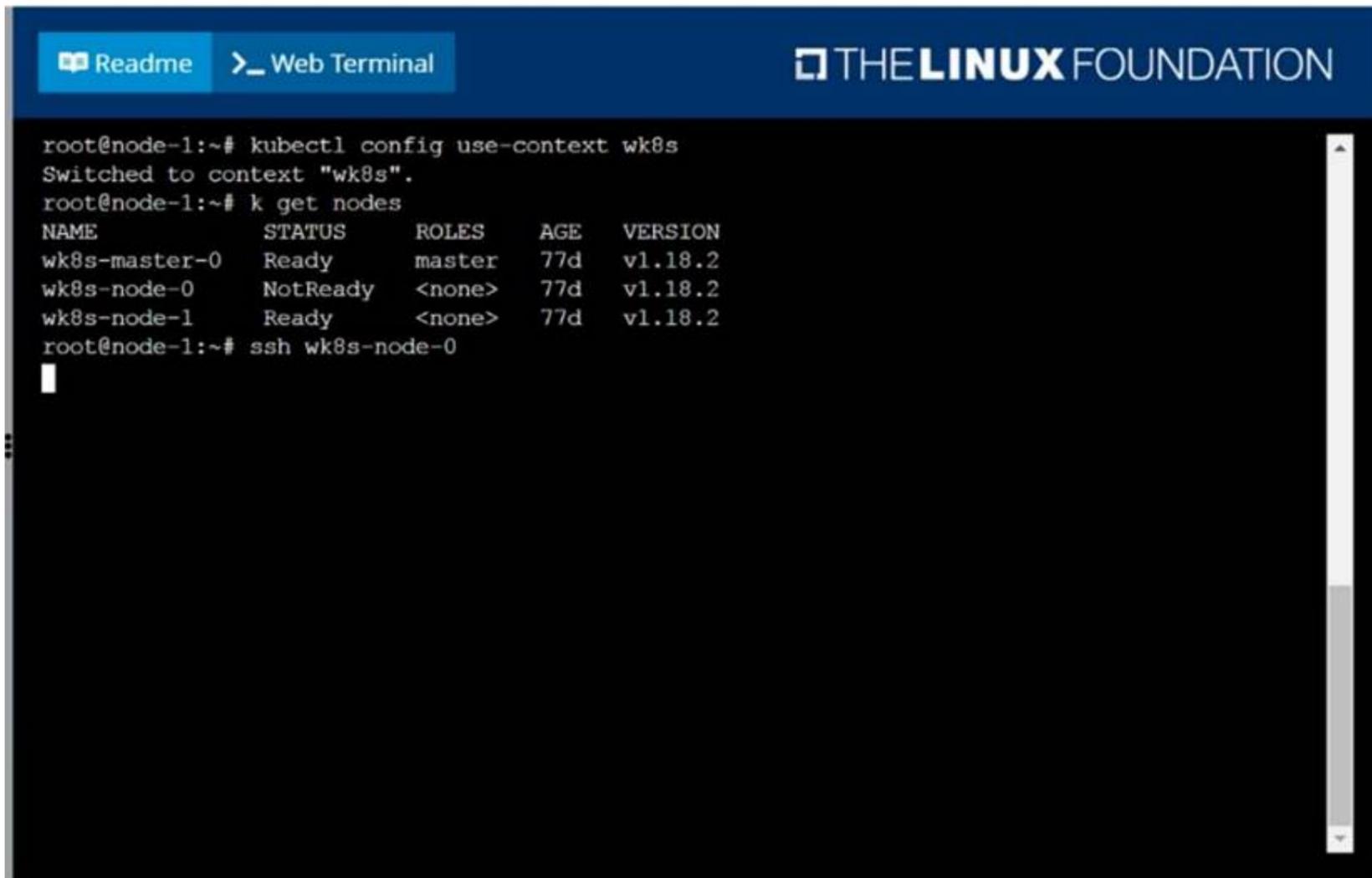
**Answer: A**



Answer: A

**Explanation:**

solution



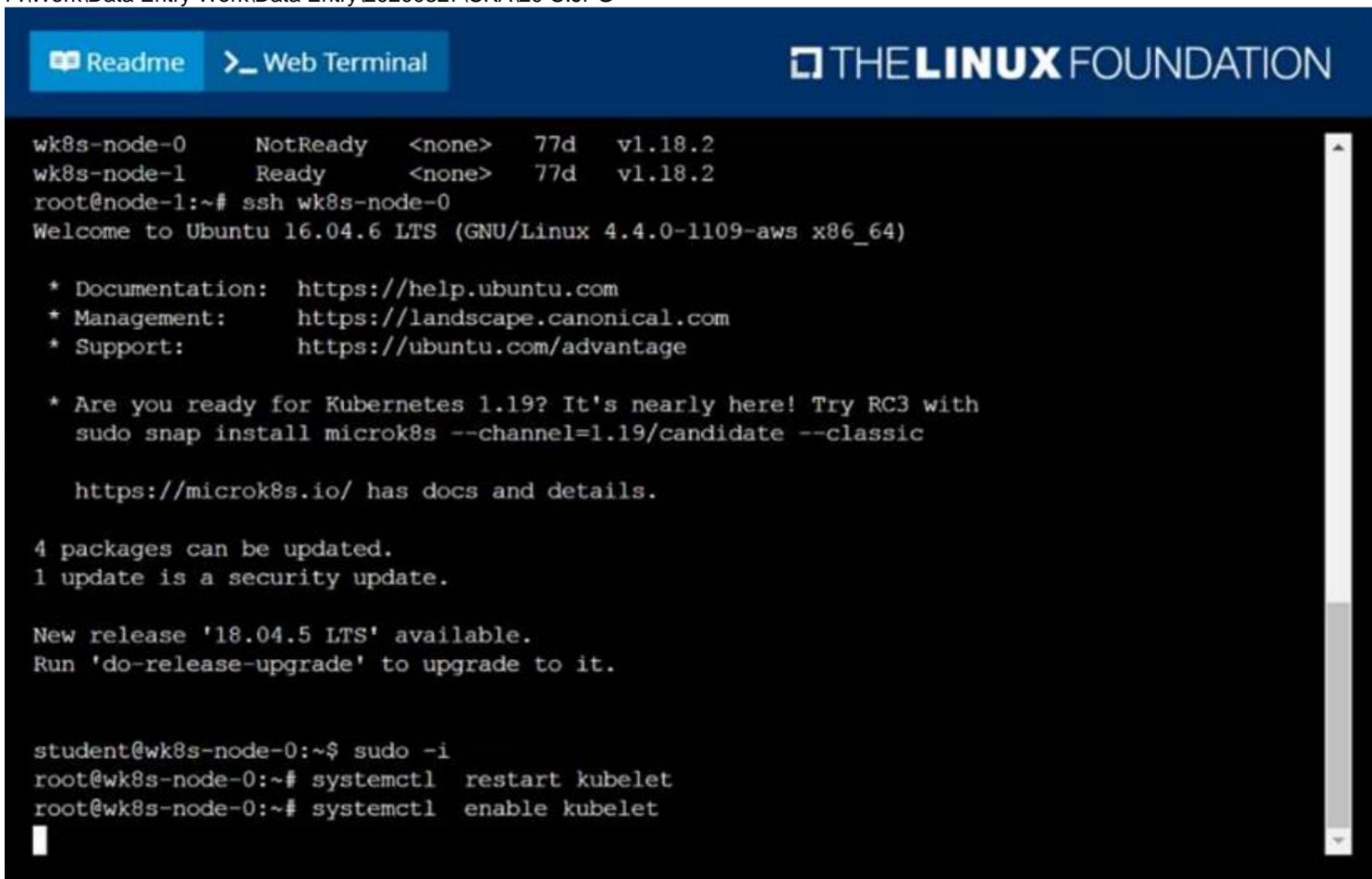
The screenshot shows a web terminal interface with a blue header containing 'Readme' and 'Web Terminal' buttons, and 'THE LINUX FOUNDATION' logo. The terminal output is as follows:

```

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 web terminal interface with a blue header containing 'Readme' and 'Web Terminal' buttons, and 'THE LINUX FOUNDATION' logo. The terminal output is as follows:

```

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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```

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

4 packages can be updated.
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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/sy
temd/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 38**

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 42**

CORRECT TEXT

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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```

77d
pv0007 7Gi      RWO      Recycle   Available  slow
77d
pv0006 8Gi      RWO      Recycle   Available  slow
77d
pv0003 10Gi     RWO      Recycle   Available  slow
77d
pv0002 11Gi     RWO      Recycle   Available  slow
77d
pv0010 13Gi     RWO      Recycle   Available  slow
77d
pv0011 14Gi     RWO      Recycle   Available  slow
77d
pv0001 16Gi     RWO      Recycle   Available  slow
77d
pv0009 17Gi     RWO      Recycle   Available  slow
77d
pv0005 18Gi     RWO      Recycle   Available  slow
77d
pv0008 19Gi     RWO      Recycle   Available  slow
77d
pv0000 21Gi     RWO      Recycle   Available  slow
77d
root@node-1:~# k get pv --sort-by=.spec.capacity.storage > /opt/KUCC00102/volume_list
root@node-1:~#

```

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**NEW QUESTION 46**

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**

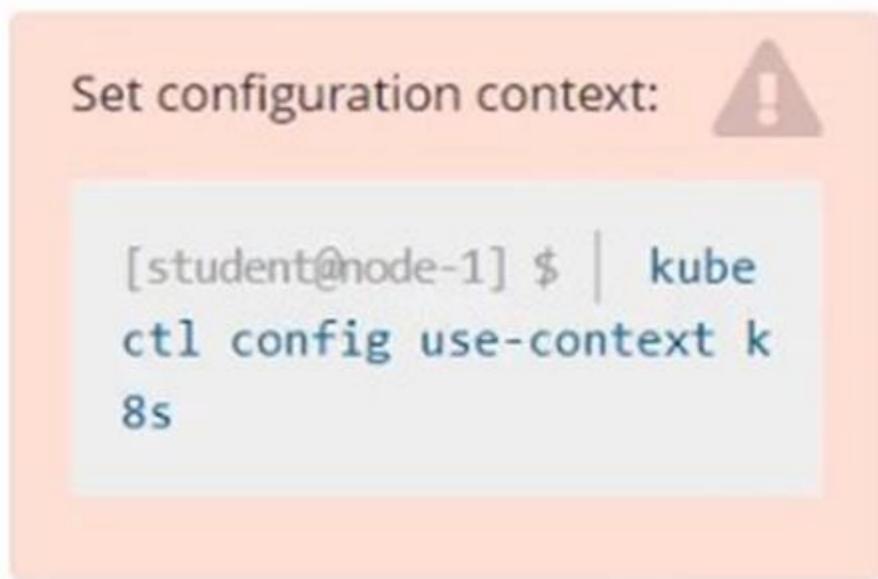
```
kind: PersistentVolume
apiVersion: v1
metadata:
  name: app-data
spec:
  capacity:
    storage: 2Gi #the amount of storage we are trying to claim
  accessModes:
    - ReadWriteMany # defines the rights of the volume we are creating
  hostPath:
    path: "/srv/app-data" # path to which we are creating 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.



CORRECT TEXT  
Score: 5%



Task  
Monitor the logs of pod bar and:  
• Extract log lines corresponding to error file-not-found  
• Write them to /opt/KUTR00101/bar

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:  
kubectl logs bar | grep 'unable-to-access-website' > /opt/KUTR00101/bar  
cat /opt/KUTR00101/bar

**NEW QUESTION 56**

CORRECT TEXT  
Score: 4%



Task  
Create a persistent volume with name app-data , of capacity 1Gi and access mode ReadOnlyMany. The type of volume is hostPath and its location is /srv/app-data .

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:  
#vi pv.yaml  
apiVersion: v1  
kind: PersistentVolume  
metadata:  
name: app-config  
spec:  
capacity:  
storage: 1Gi  
accessModes:  
- ReadOnlyMany  
hostPath:  
path: /srv/app-config

```
#  
kubectl create -f pv.yaml
```

#### NEW QUESTION 61

CORRECT TEXT

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 63

CORRECT TEXT

List "nginx-dev" and "nginx-prod" pod and delete those pods

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

```
kubectl get pods -o wide
```

```
kubectl delete po "nginx-dev" kubectl delete po "nginx-prod"
```

#### NEW QUESTION 66

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 71

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## Relate Links

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