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QUESTION 1

Create a namespace called \\'development\\' and a pod with image nginx called nginx on this namespace.

Correct Answer: Check the answer in explanation.

kubectl create namespace development kubectl run nginx --image=nginx --restart=Never -n development

QUESTION 2

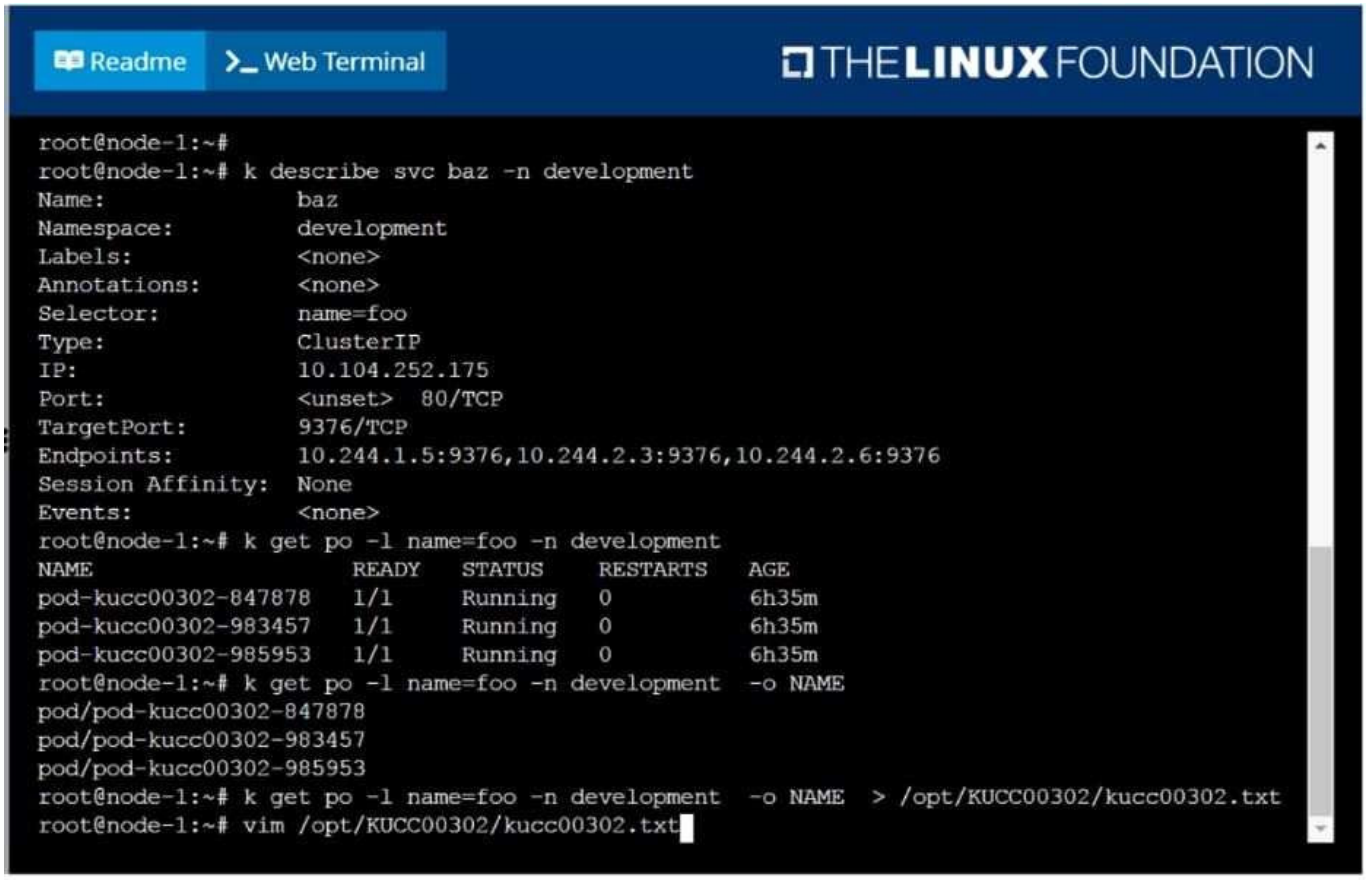
SIMULATION

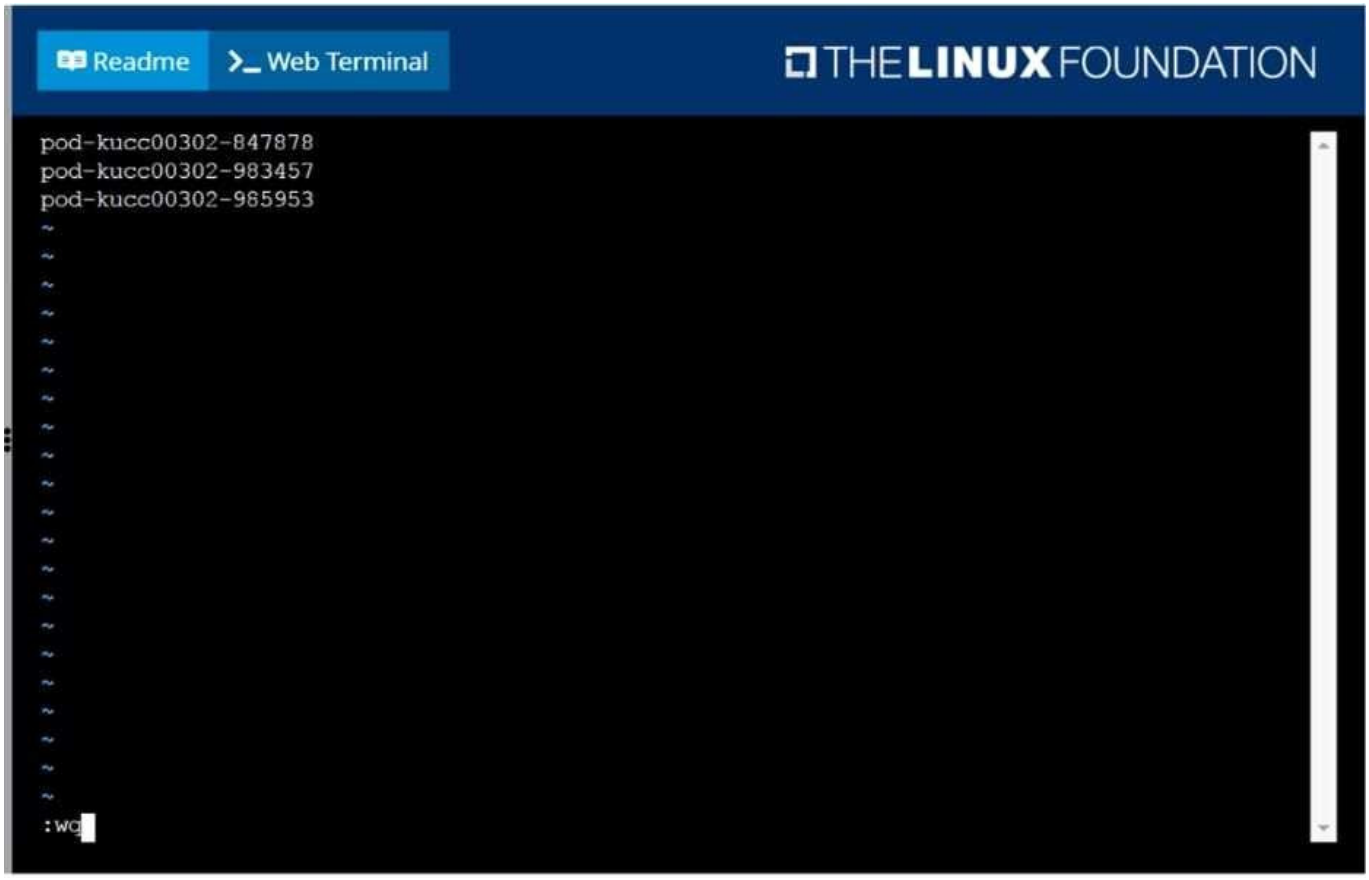
Create a file:

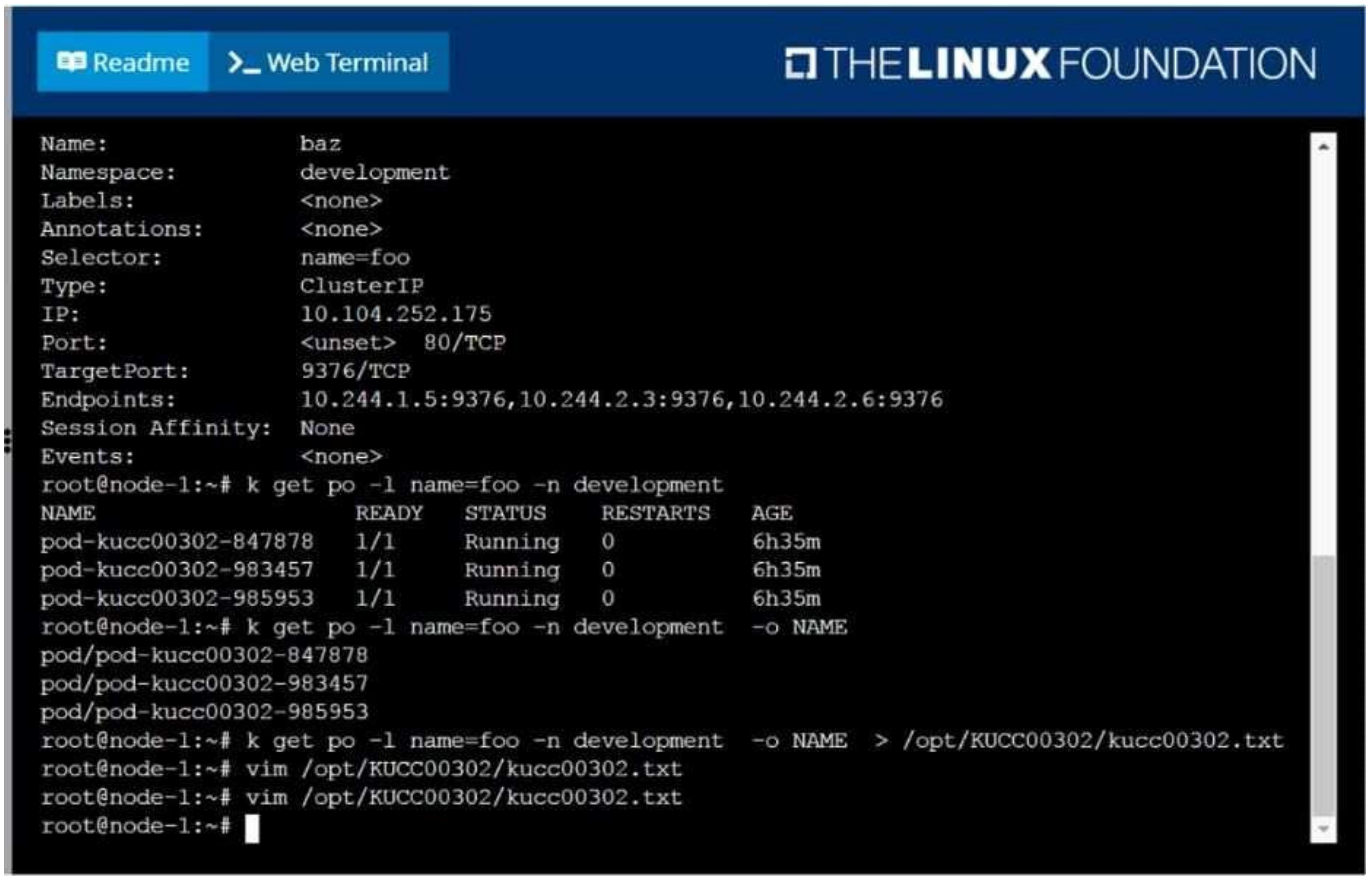
/opt/KUCC00302/kucc00302.txt that lists all pods that implement service baz in namespace development.

The format of the file should be one pod name per line.

Correct Answer: Check the answer in explanation.




Readme
Web Terminal
THE LINUX FOUNDATION
pod-kucc00302-847878
pod-kucc00302-983457
pod-kucc00302-985953
:wq


Readme
Web Terminal
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Name: baz
Namespace: development
Labels: <none>
Annotations: <none>
Selector: name=foo
Type: ClusterIP
IP: 10.104.252.175
Port: <unset> 80/TCP
TargetPort: 9376/TCP
Endpoints: 10.244.1.5:9376,10.244.2.3:9376,10.244.2.6:9376
Session Affinity: None
Events: <none>
root@node-1:~# k get po -l name=foo -n development
NAME READY STATUS RESTARTS AGE
pod-kucc00302-847878 1/1 Running 0 6h35m
pod-kucc00302-983457 1/1 Running 0 6h35m
pod-kucc00302-985953 1/1 Running 0 6h35m
root@node-1:~# k get po -l name=foo -n development -o NAME
pod/pod-kucc00302-847878
pod/pod-kucc00302-983457
pod/pod-kucc00302-985953
root@node-1:~# k get po -l name=foo -n development -o NAME > /opt/KUCC00302/kucc00302.txt
root@node-1:~# vim /opt/KUCC00302/kucc00302.txt
root@node-1:~# vim /opt/KUCC00302/kucc00302.txt
root@node-1:~#

QUESTION 3

SIMULATION

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:

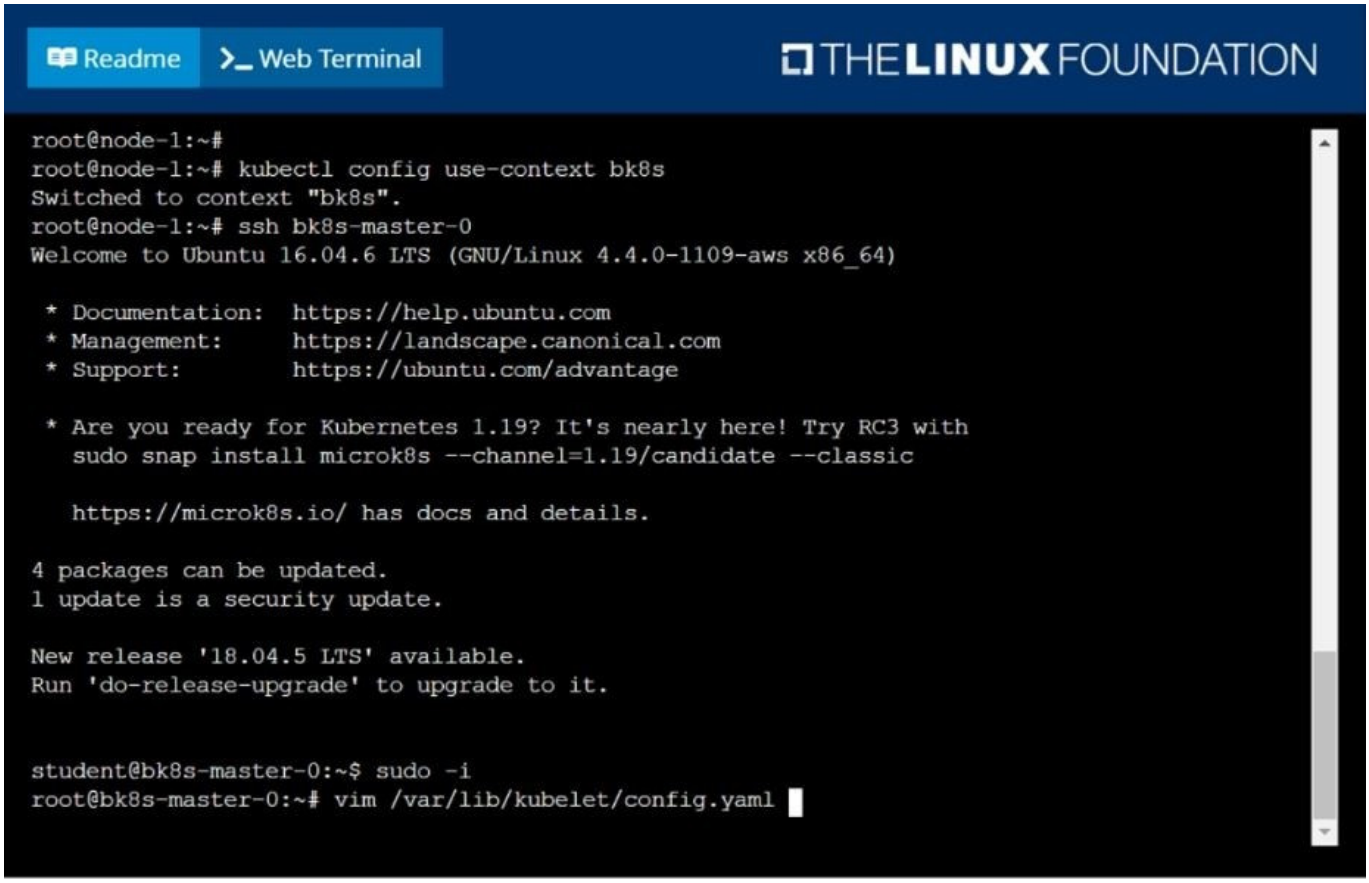
[student@node-1] $ ssh

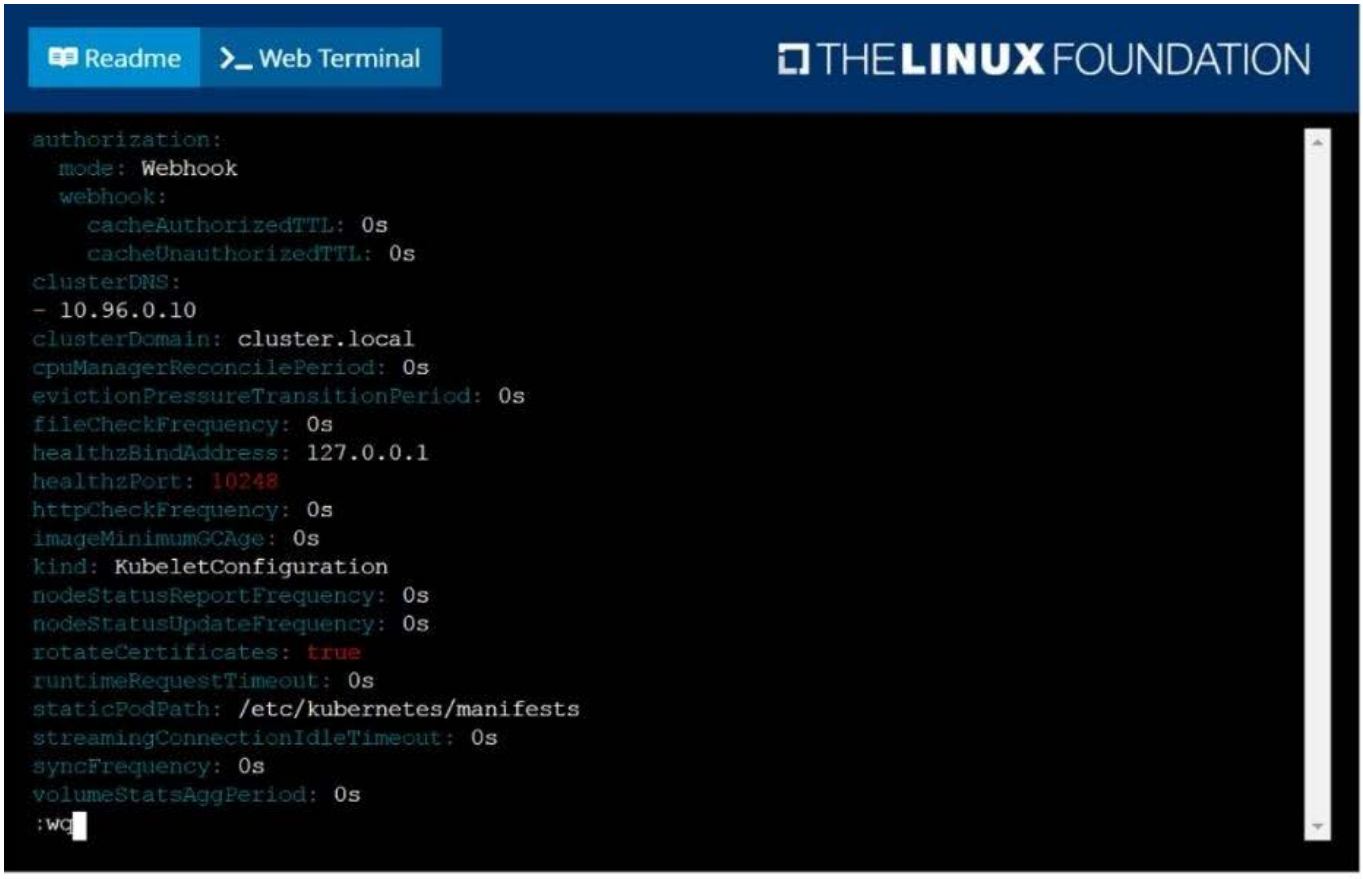
You can assume elevated privileges on any node in the cluster with the following command:

[student@nodename] $ | sudo -i

Correct Answer: Check the answer in explanation.

solution

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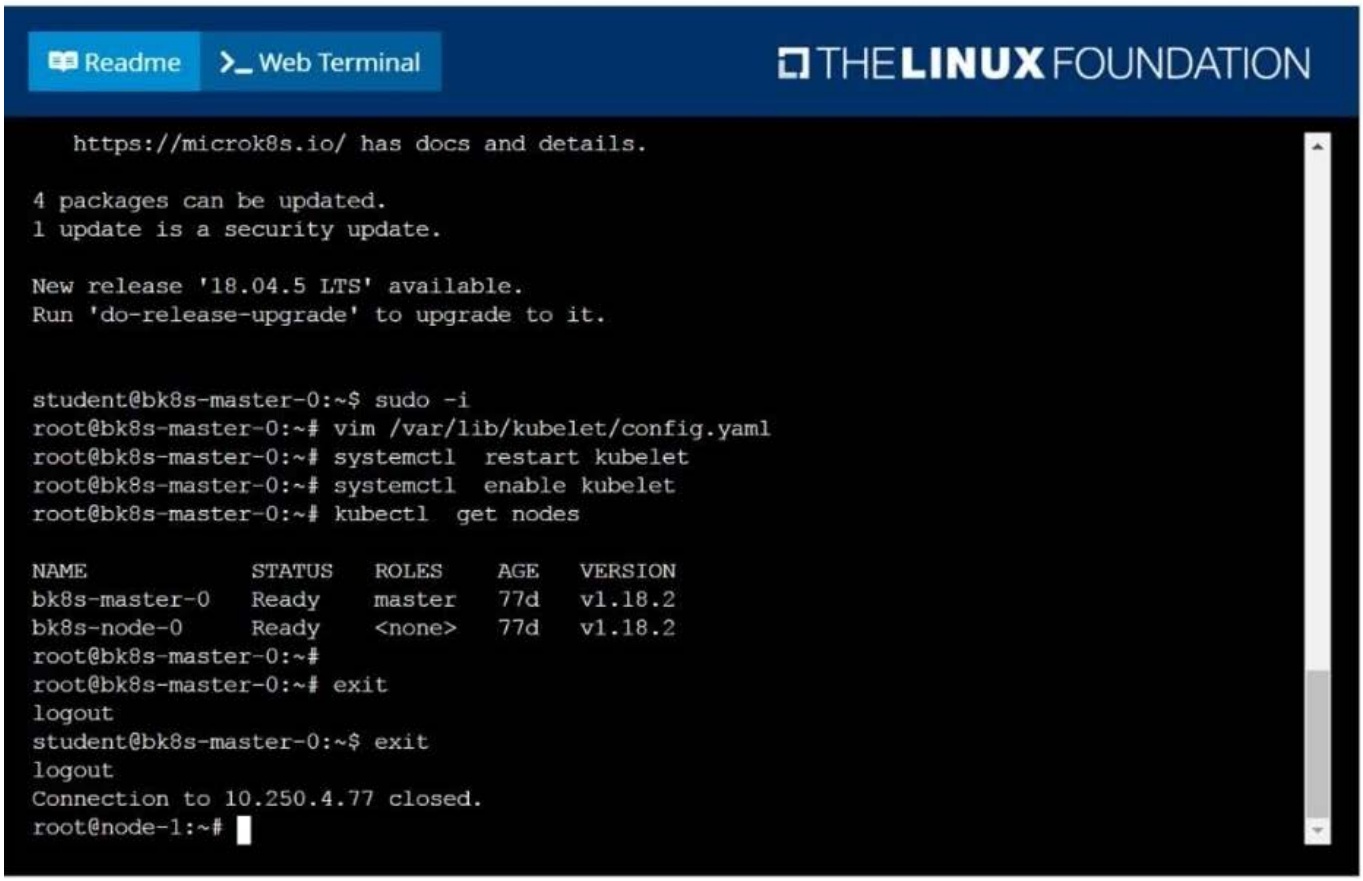
authorization:
mode: Webhook
webhook:
cacheAuthorizedTTL: 0s
cacheUnauthorizedTTL: 0s
clusterDNS:
- 10.96.0.10
clusterDomain: cluster.local
cpuManagerReconcilePeriod: 0s
evictionPressureTransitionPeriod: 0s
fileCheckFrequency: 0s
healthzBindAddress: 127.0.0.1
healthzPort: 10248
httpCheckFrequency: 0s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

QUESTION 4

Get list of all the pods showing name and namespace with a jsonpath expression.

Correct Answer: Check the answer in explanation.

kubectl get pods -o=jsonpath="{.items[*][\\'metadata.name\\' , \\'metadata.namespace\\']}"

QUESTION 5

SIMULATION

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

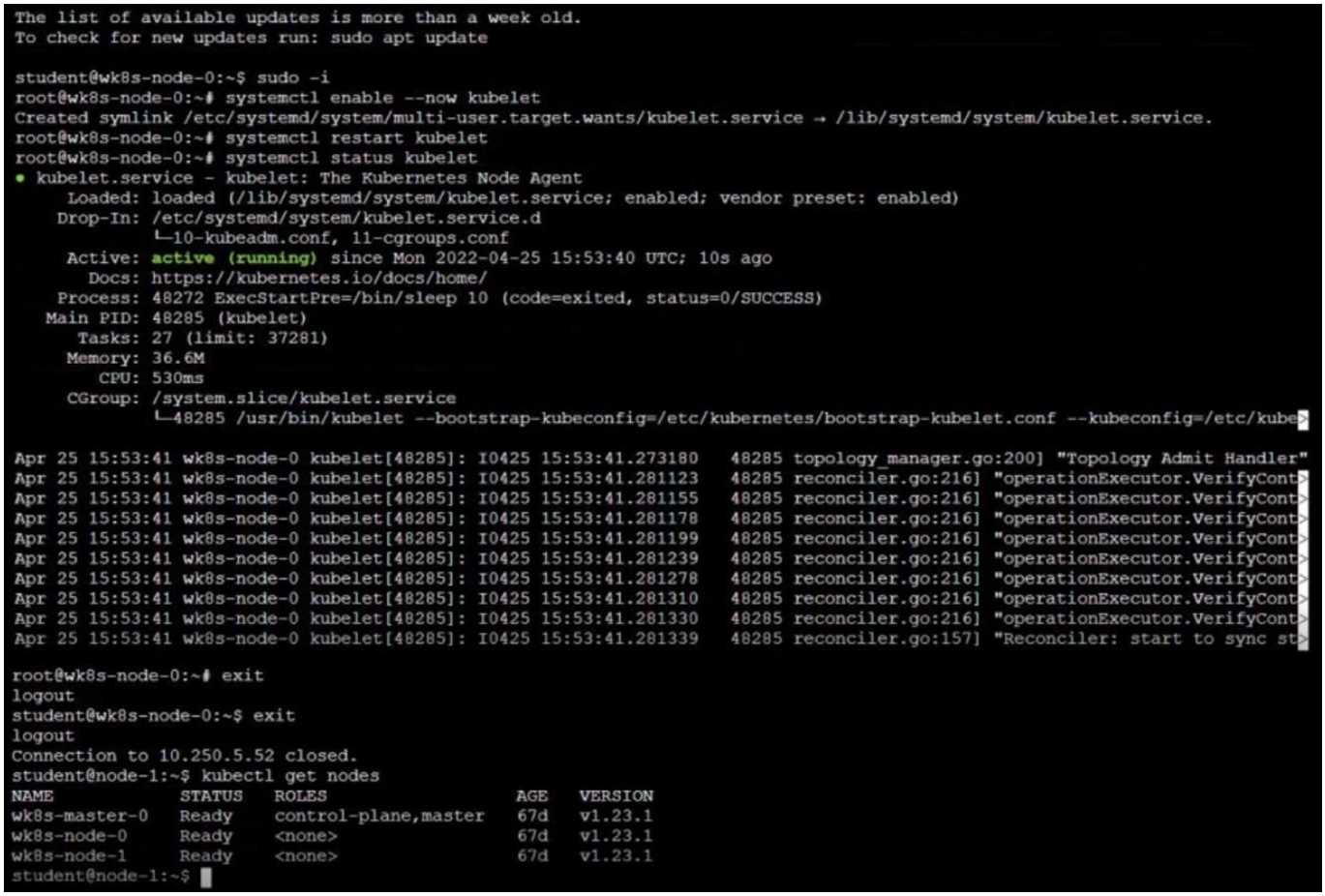
Correct Answer: Check the answer in explanation.

```
student@node-1:~$ kubectl config use-context wk8s
Switched to context "wk8s".
student@node-1:~$ kubectl get nodes
NAME           STATUS     ROLES                  AGE   VERSION
wk8s-master-0  Ready      control-plane,master   67d   v1.23.1
wk8s-node-0    NotReady   <none>                 67d   v1.23.1
wk8s-node-1    Ready      <none>                 67d   v1.23.1
student@node-1:~$ kubectl describe nodes wk8s-node-0
```

```
  ephemeral-storage:  65515382676
  hugepages-1Gi:      0
  hugepages-2Mi:      0
  memory:             31724872Ki
  pods:               110
System Info:
  Machine ID:                 2107786af1744dfbbf02d9f6fac470b0
  System UUID:                ec22a34d-9b09-cea1-d7eb-1b47b08d2151
  Boot ID:                    3b22c15f-7dd1-4f61-b5c2-f24d9bd8b281
  Kernel Version:             5.11.0-1028-aws
  OS Image:                   Ubuntu 20.04.3 LTS
  Operating System:           linux
  Architecture:               amd64
  Container Runtime Version:  docker://20.10.7
  Kubelet Version:            v1.23.1
  Kube-Proxy Version:         v1.23.1
PodCIDR:                      10.244.1.0/24
PodCIDRs:                     10.244.1.0/24
Non-terminated Pods:          (2 in total)
  Namespace                   Name                CPU Requests  CPU Limits  Memory Requests  Memory Limits  Age
  ---------                   ----                ------------  ----------  ---------------  -------------  ---
  kube-system                 kube-flannel-ds-rxbx8  100m (0%)     100m (0%)   50Mi (0%)        50Mi (0%)      67d
  kube-system                 kube-proxy-xfxzm    0 (0%)        0 (0%)      0 (0%)           0 (0%)         67d
Allocated resources:
  (Total limits may be over 100 percent, i.e., overcommitted.)
  Resource           Requests    Limits
  --------           --------    ------
  cpu                100m (0%)   100m (0%)
  memory             50Mi (0%)   50Mi (0%)
  ephemeral-storage  0 (0%)      0 (0%)
  hugepages-1Gi      0 (0%)      0 (0%)
  hugepages-2Mi      0 (0%)      0 (0%)
Events:              <none>
student@node-1:~$
```

```
Unschedulable:      false
Lease:
  HolderIdentity:  wk8s-node-0
  AcquireTime:     <unset>
  RenewTime:       Mon, 25 Apr 2022 09:29:25 +0000
Conditions:
  Type                 Status    LastHeartbeatTime                 LastTransitionTime                Reason              Me
ssage
  ----                 ------    -----------------                 ------------------                ------              --
-----
  NetworkUnavailable   False     Mon, 25 Apr 2022 09:21:15 +0000   Mon, 25 Apr 2022 09:21:15 +0000   FlannelIsUp         Fl
annel is running on this node
  MemoryPressure       Unknown   Mon, 25 Apr 2022 09:25:20 +0000   Mon, 25 Apr 2022 09:30:07 +0000   NodeStatusUnknown   Ku
belet stopped posting node status.
  DiskPressure         Unknown   Mon, 25 Apr 2022 09:25:20 +0000   Mon, 25 Apr 2022 09:30:07 +0000   NodeStatusUnknown   Ku
belet stopped posting node status.
  PIDPressure          Unknown   Mon, 25 Apr 2022 09:25:20 +0000   Mon, 25 Apr 2022 09:30:07 +0000   NodeStatusUnknown   Ku
belet stopped posting node status.
  Ready                Unknown   Mon, 25 Apr 2022 09:25:20 +0000   Mon, 25 Apr 2022 09:30:07 +0000   NodeStatusUnknown   Ku
belet stopped posting node status.
Addresses:
  InternalIP:  10.250.5.52
  Hostname:    wk8s-node-0
Capacity:
  cpu:                16
  ephemeral-storage:  71088740Ki
  hugepages-1Gi:      0
  hugepages-2Mi:      0
  memory:             31827272Ki
  pods:               110
Allocatable:
  cpu:                16
  ephemeral-storage:  65515382676
  hugepages-1Gi:      0
```

```
  ephemeral-storage:  65515382676
  hugepages-1Gi:      0
  hugepages-2Mi:      0
  memory:             31724872Ki
  pods:               110
System Info:
  Machine ID:                 2107786af1744dfbbf02d9f6fac470b0
  System UUID:                ec22a34d-9b09-cea1-d7eb-1b47b08d2151
  Boot ID:                    3b22c15f-7dd1-4f61-b5c2-f24d9bd8b281
  Kernel Version:             5.11.0-1028-aws
  OS Image:                   Ubuntu 20.04.3 LTS
  Operating System:           linux
  Architecture:               amd64
  Container Runtime Version:  docker://20.10.7
  Kubelet Version:            v1.23.1
  Kube-Proxy Version:         v1.23.1
PodCIDR:                      10.244.1.0/24
PodCIDRs:                     10.244.1.0/24
Non-terminated Pods:          (2 in total)
  Namespace                   Name                    CPU Requests  CPU Limits  Memory Requests  Memory Lim
  ---------                   ----                    ------------  ----------  ---------------  ----------
  kube-system                 kube-flannel-ds-rxbx8   100m (0%)     100m (0%)   50Mi (0%)        50Mi (0%)
  kube-system                 kube-proxy-xfxzm        0 (0%)        0 (0%)      0 (0%)           0 (0%)
Allocated resources:
  (Total limits may be over 100 percent, i.e., overcommitted.)
  Resource           Requests   Limits
  --------           --------   ------
  cpu                100m (0%)  100m (0%)
  memory             50Mi (0%)  50Mi (0%)
  ephemeral-storage  0 (0%)     0 (0%)
  hugepages-1Gi      0 (0%)     0 (0%)
  hugepages-2Mi      0 (0%)     0 (0%)
Events:              <none>
student@node-1:~$ kubectl config use-context wk8s
Switched to context "wk8s".
student@node-1:~$ kubectl get nodes
NAME           STATUS     ROLES                  AGE   VERSION
wk8s-master-0  Ready      control-plane,master   67d   v1.23.1
wk8s-node-0    NotReady   <none>                 67d   v1.23.1
wk8s-node-1    Ready      <none>                 67d   v1.23.1
student@node-1:~$ ssh wk8s-node-0
Warning: Permanently added '10.250.5.52' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-1028-aws x86_64)

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

  System information as of Mon Apr 25 09:31:01 UTC 2022

  System load:  2.05               Processes:               40
  Usage of /:   83.2% of 67.79GB   Users logged in:         0
  Memory usage: 0%                 IPv4 address for docker0: 172.17.0.1
  Swap usage:   0%                 IPv4 address for eth0:    10.250.5.52


30 updates can be applied immediately.
15 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable


The list of available updates is more than a week old.
To check for new updates run: sudo apt update

student@wk8s-node-0:~$ sudo -i
root@wk8s-node-0:~# systemctl enable --now kubelet
Created symlink /etc/systemd/system/multi-user.target.wants/kubelet.service → /lib/systemd/system/kubelet.se
root@wk8s-node-0:~# systemctl restart kubelet
root@wk8s-node-0:~# systemctl status kube
```



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