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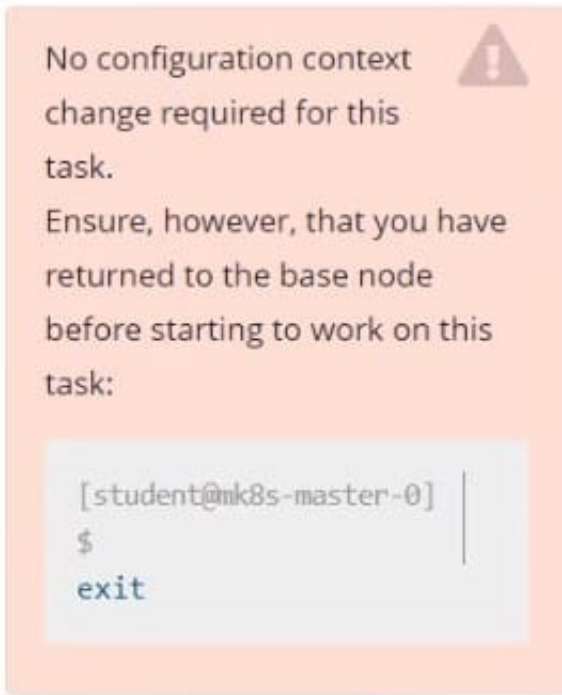
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QUESTION 1

SIMULATION



Create a snapshot of the etcd instance running at <https://127.0.0.1:2379>, saving the snapshot to the file path `/srv/data/etcd-snapshot.db`. The following TLS certificates/key are supplied for connecting to the server with `etcdctl`:

1.

CA certificate: `/opt/KUCM00302/ca.crt`

2.

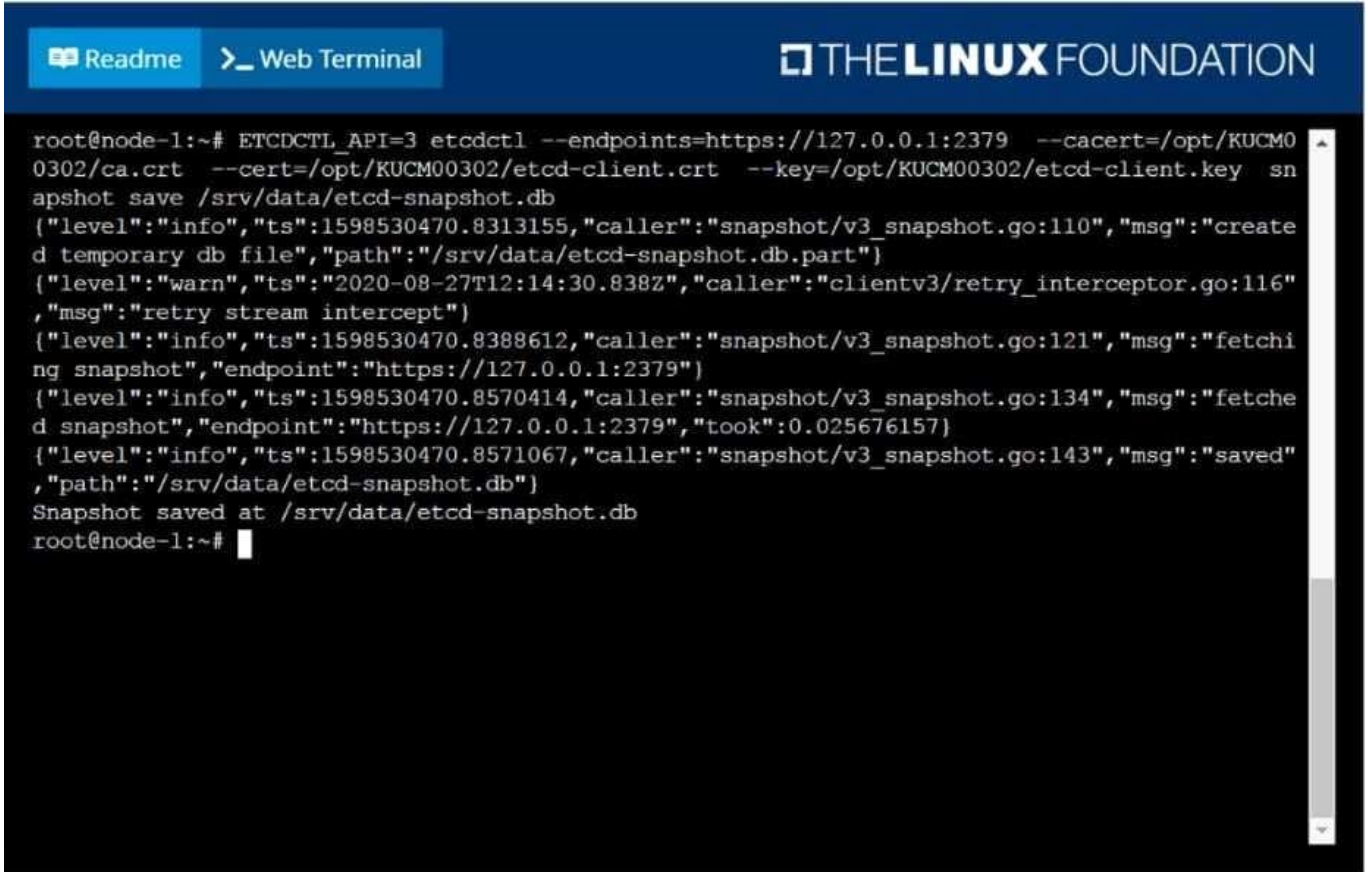
Client certificate: `/opt/KUCM00302/etcd-client.crt`

3.

Client key: `/opt/KUCM00302/etcd-client.key`

Correct Answer: Check the answer in explanation.

Solution



The screenshot shows a terminal window 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 running the command `ETCDCTL_API=3 etcdctl --endpoints=https://127.0.0.1:2379 --cacert=/opt/KUCM00302/ca.crt --cert=/opt/KUCM00302/etcd-client.crt --key=/opt/KUCM00302/etcd-client.key snapshot save /srv/data/etcd-snapshot.db`. The output consists of several JSON log entries: a successful 'create temporary db file' message, a 'warn' message about a 'retry stream intercept', an 'info' message about 'fetching snapshot', another 'info' message about 'fetched snapshot', and a final 'info' message about 'saved' the snapshot to the specified path. The terminal ends with the prompt `root@node-1:~#`.

QUESTION 2

CORRECT TEXT

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

Correct Answer: Check the answer in explanation.

```
kubect1 get pods -o wide
```

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

QUESTION 3

SIMULATION 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.

Correct Answer: Check the answer in 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:

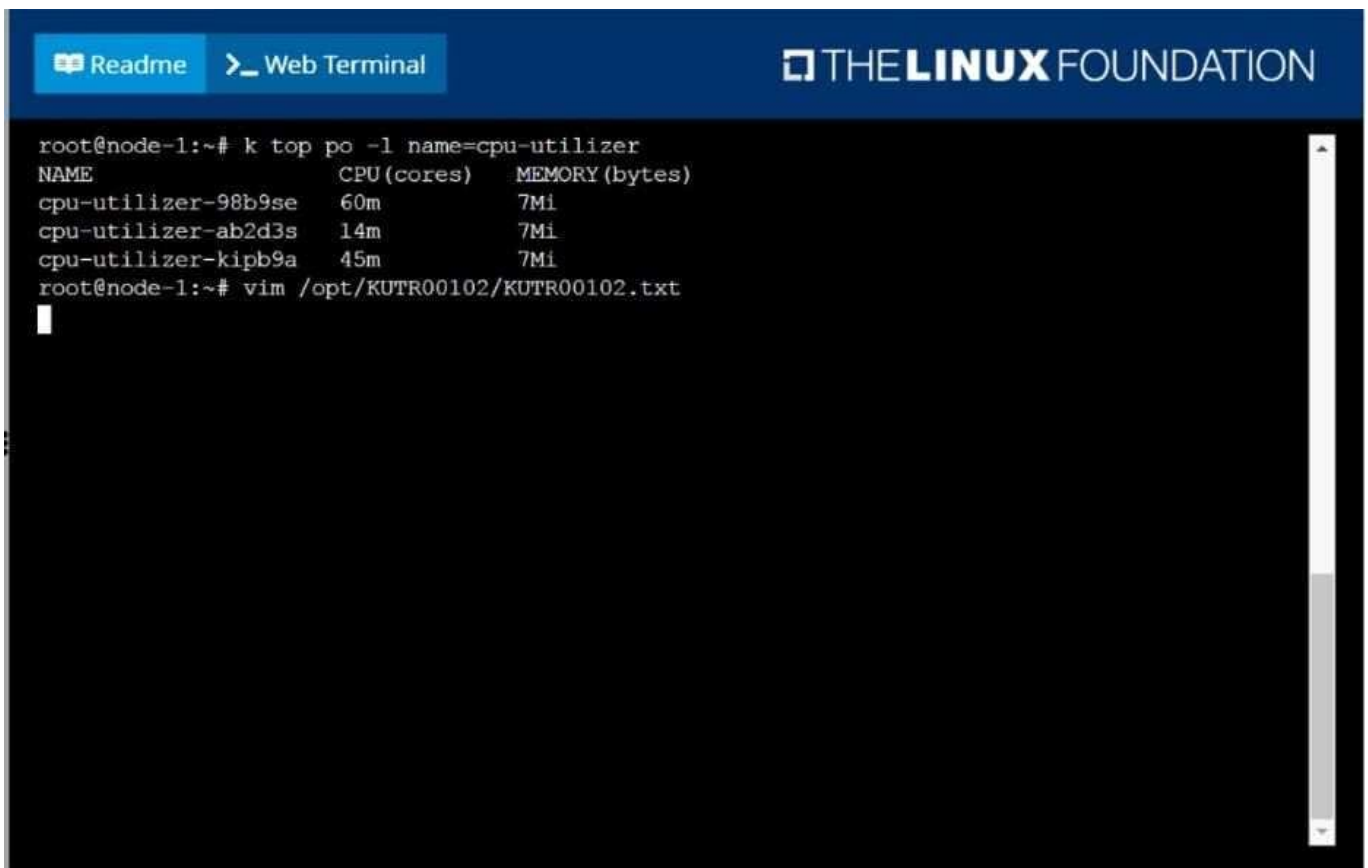
<https://docs.projectcalico.org/v3.14/manifests/calico.yaml> Docker is already installed on both nodes and apt has been configured so that you can install the required tools.

QUESTION 4

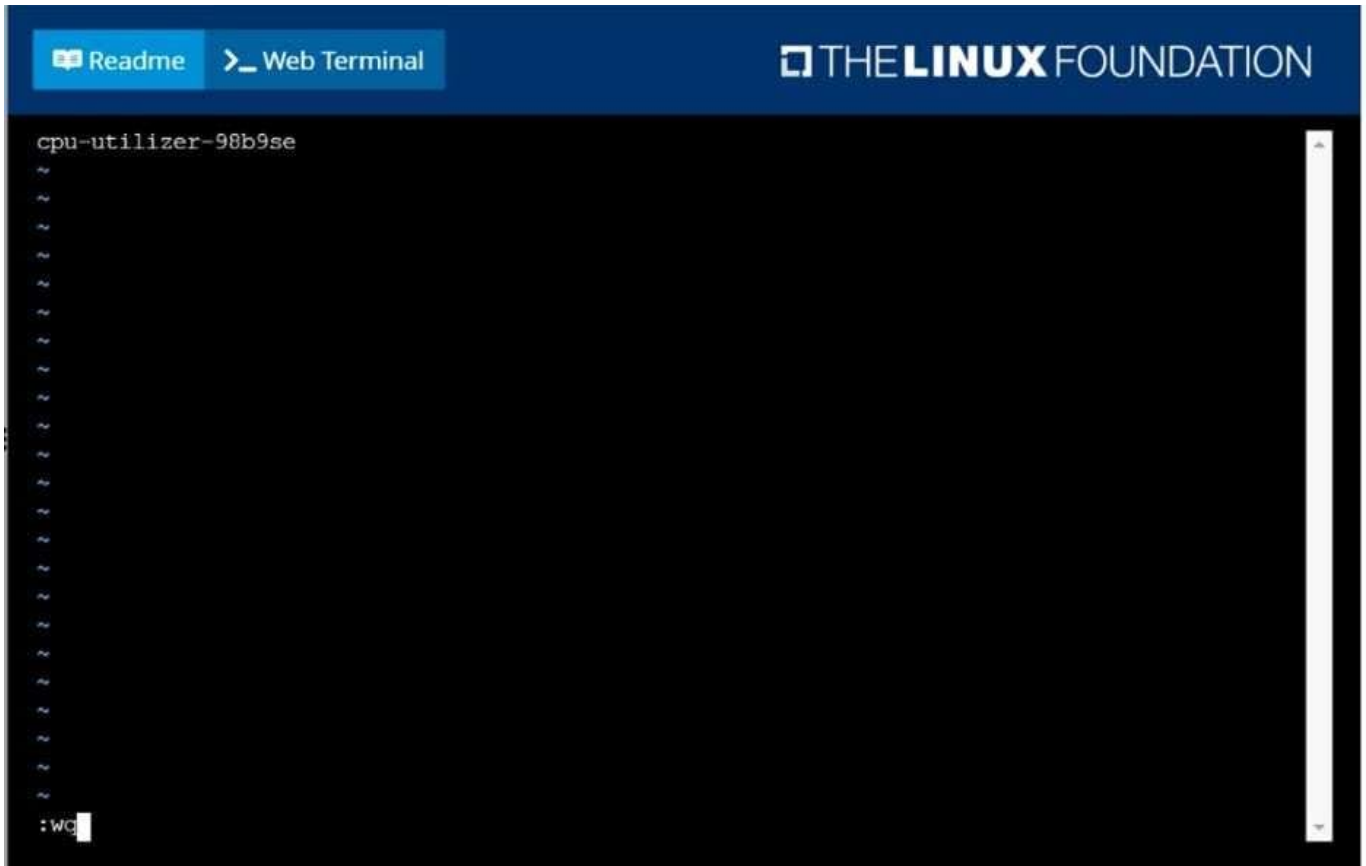
SIMULATION

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).

Correct Answer: Check the answer in explanation.



```
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
```



QUESTION 5

SIMULATION

Schedule a pod as follows:

1.

Name: nginx-kusc00101

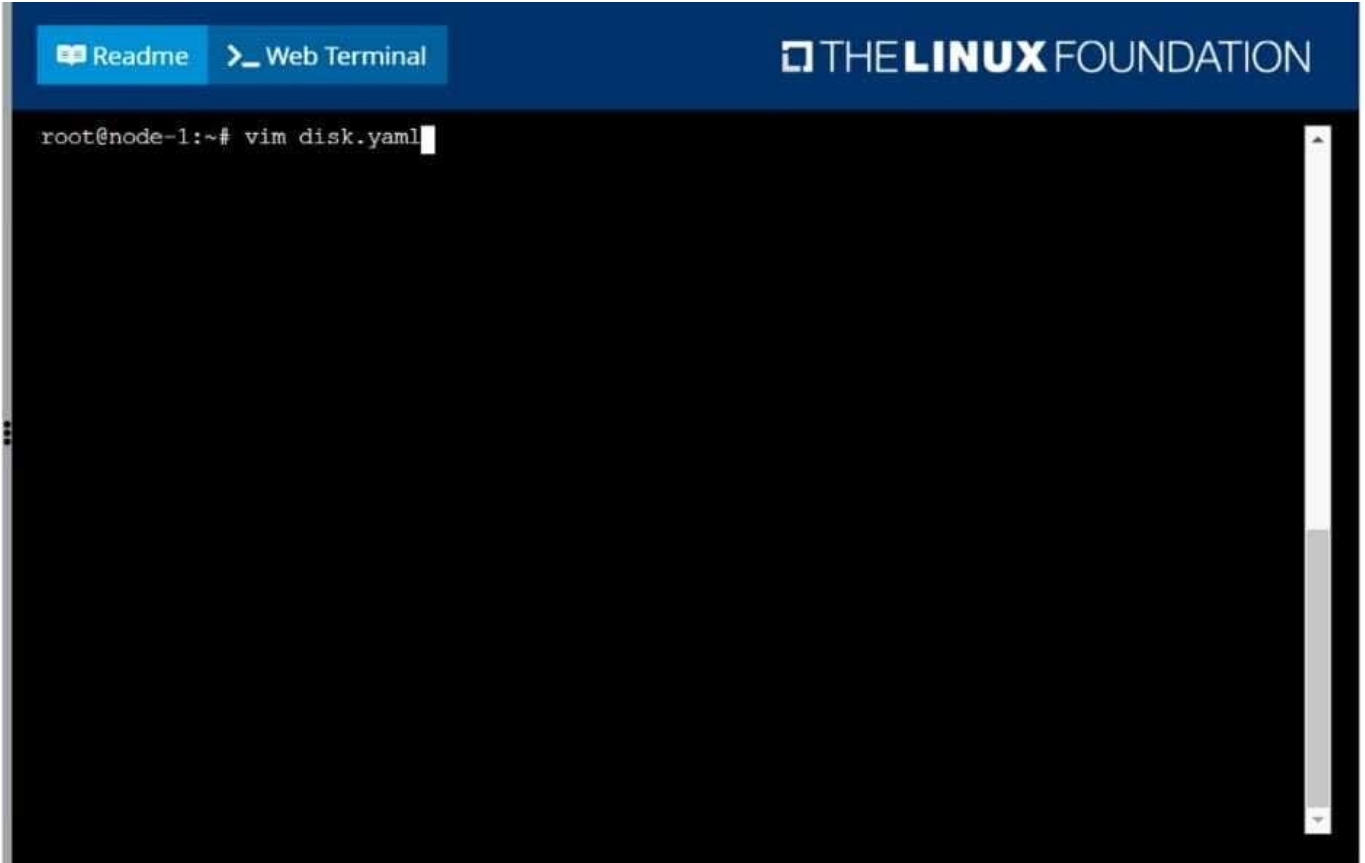
2.

Image: nginx

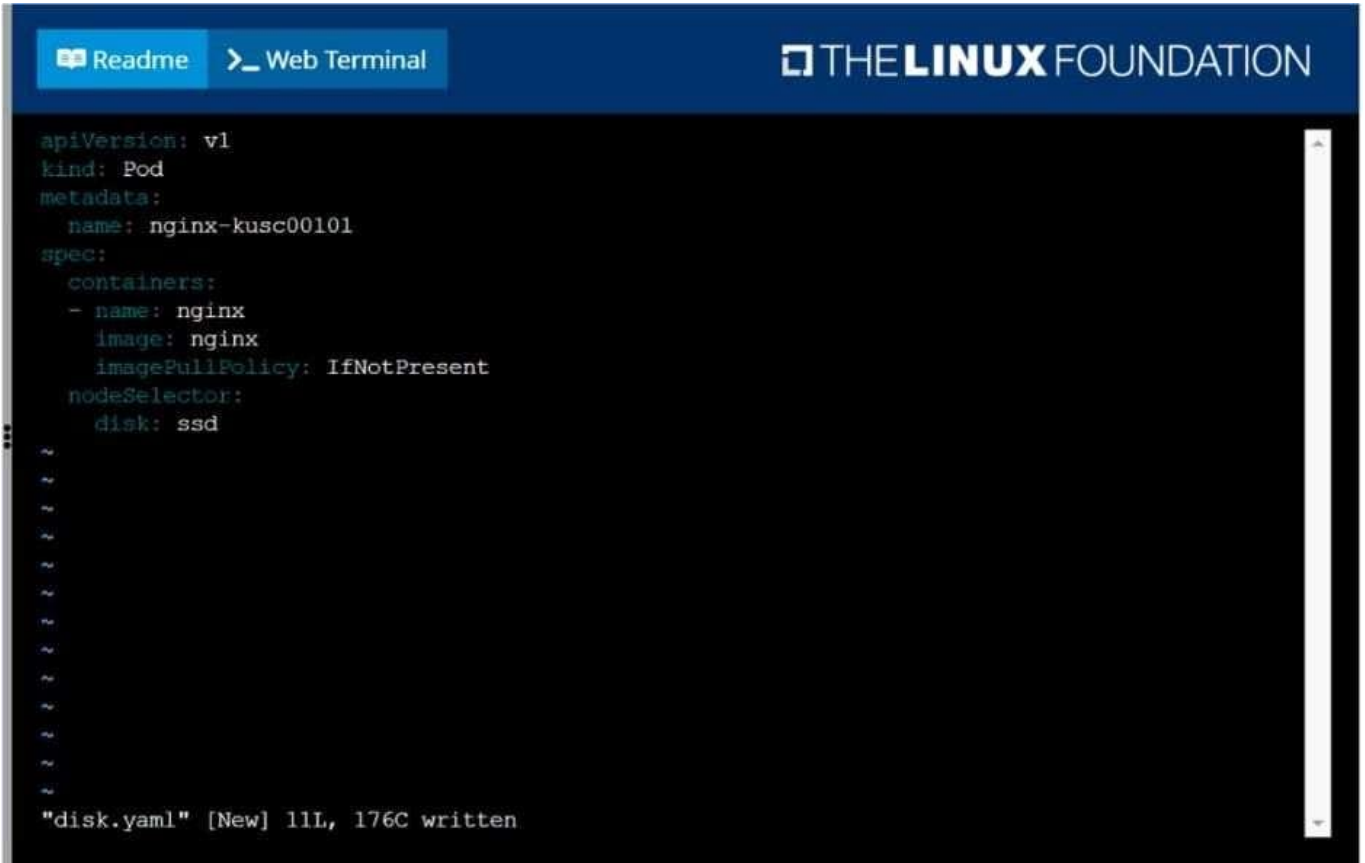
3.

Node selector: disk=ssd

Correct Answer: Check the answer in explanation.



The screenshot shows a web terminal window with a dark background. At the top, there are two tabs: "Readme" and "Web Terminal". The "THE LINUX FOUNDATION" logo is in the top right corner. The terminal prompt is "root@node-1:~# vim disk.yaml".



The screenshot shows the same web terminal window. The vim editor now displays the content of the "disk.yaml" file. The text is as follows:

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx-kusc00101
spec:
  containers:
  - name: nginx
    image: nginx
    imagePullPolicy: IfNotPresent
  nodeSelector:
    disk: ssd
```

At the bottom of the terminal, a message reads: `"disk.yaml" [New] 11L, 176C written`. The terminal prompt is now `root@node-1:~#`.

```
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:~#
```

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