# CKA Q&As

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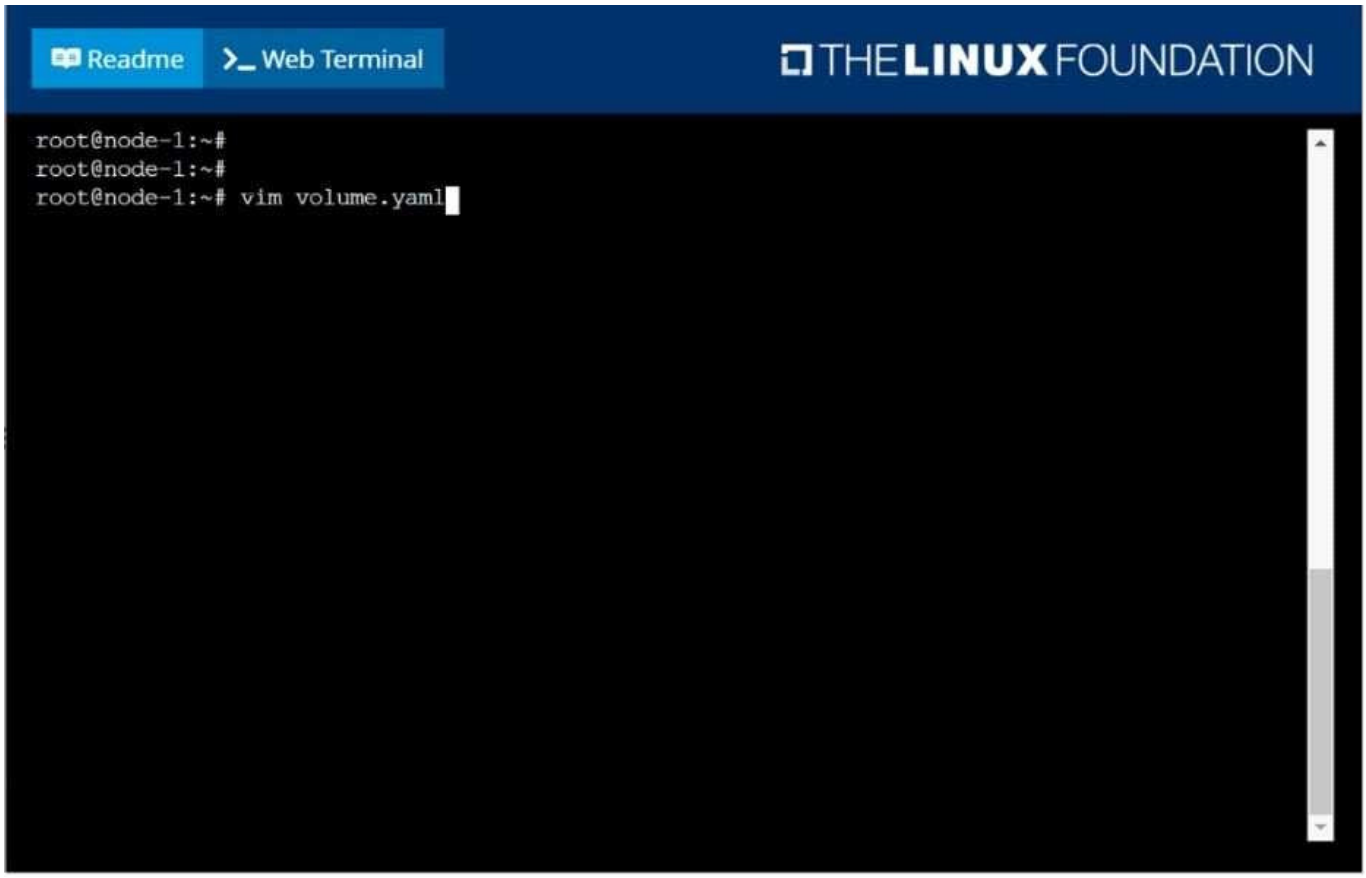
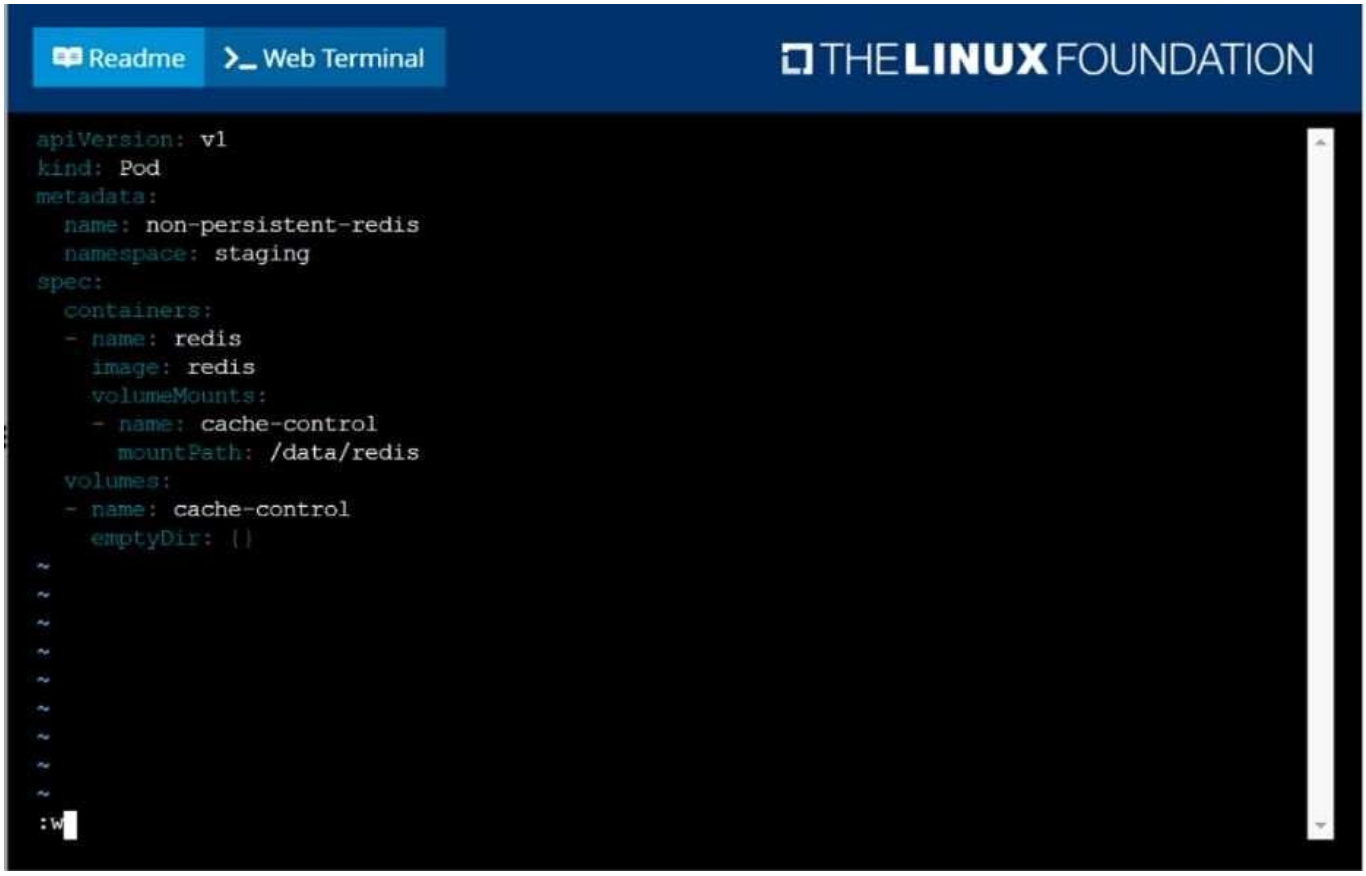
**QUESTION 1**

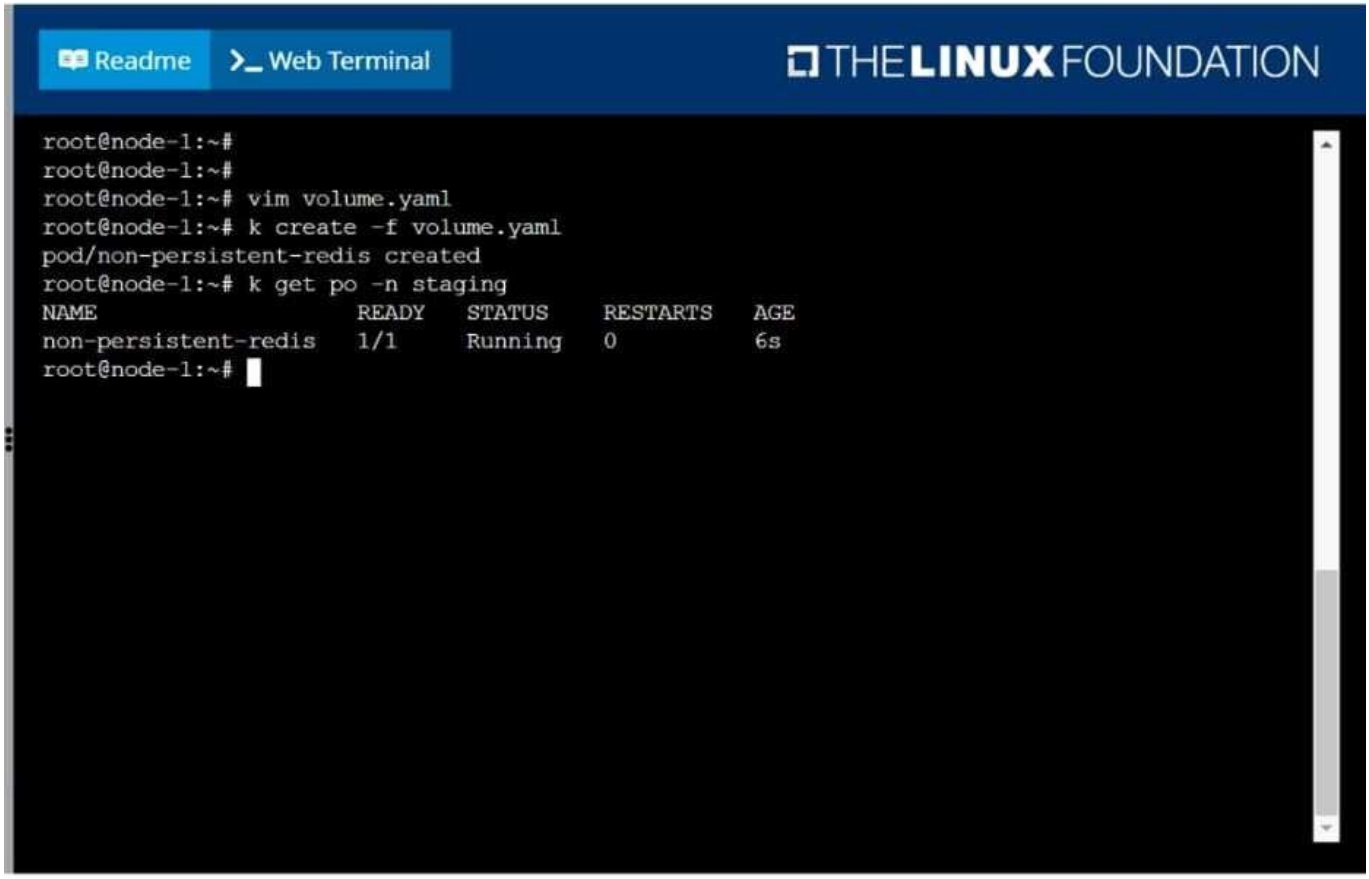
SIMULATION

Create a pod as follows: Name: non-persistent-redis container Image: redis Volume with name: cache-control Mount path: /data/redis The pod should launch in the staging namespace and the volume must not be persistent.

Correct Answer: Check the answer in explanation.




Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
name: non-persistent-redis
namespace: staging
spec:
containers:
- name: redis
image: redis
volumeMounts:
- name: cache-control
mountPath: /data/redis
volumes:
- name: cache-control
emptyDir: {}
:w


Readme
Web Terminal
THE LINUX FOUNDATION
root@node-1:~#
root@node-1:~#
root@node-1:~# vim volume.yaml
root@node-1:~# k create -f volume.yaml
pod/non-persistent-redis created
root@node-1:~# k get po -n staging
NAME READY STATUS RESTARTS AGE
non-persistent-redis 1/1 Running 0 6s
root@node-1:~#

**QUESTION 2**

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-O as a master node. .

Join the node ik8s-node-o to the cluster.

Correct Answer: Check the answer in explanation.

Solution

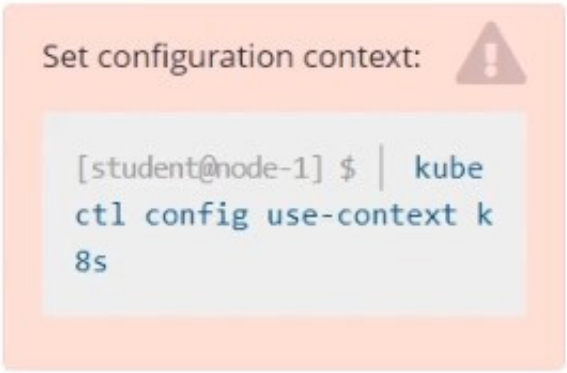
You must use the kubeadm configuration file located at /etc/kubeadm.conf when initializing your cluster.

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 3**

SIMULATION




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:

1.

Deployment

2.

StatefulSet

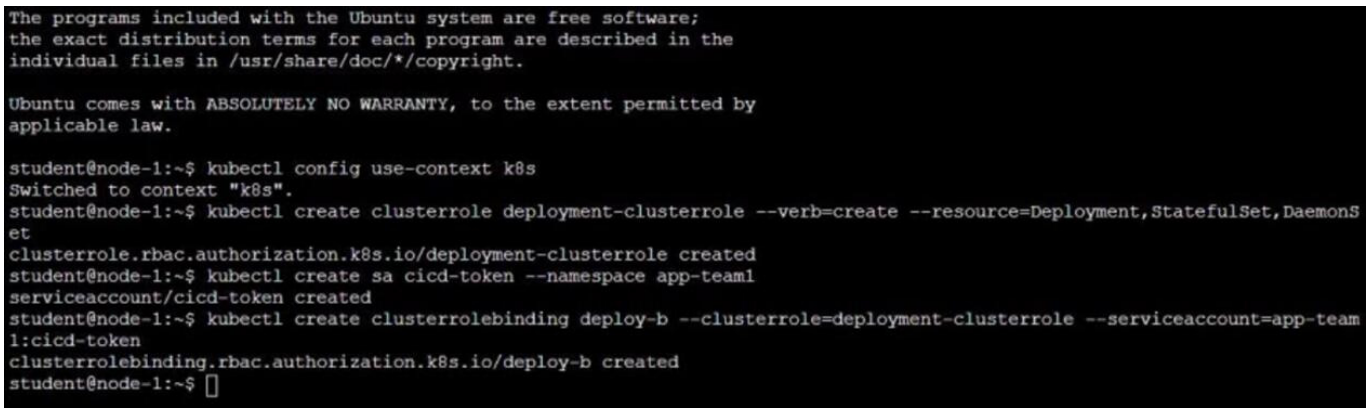
3.

DaemonSet

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

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

Correct Answer: Check the answer in explanation.




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

**QUESTION 4**

SIMULATION

Schedule a pod as follows:

1.

Name: nginx-kusc00101

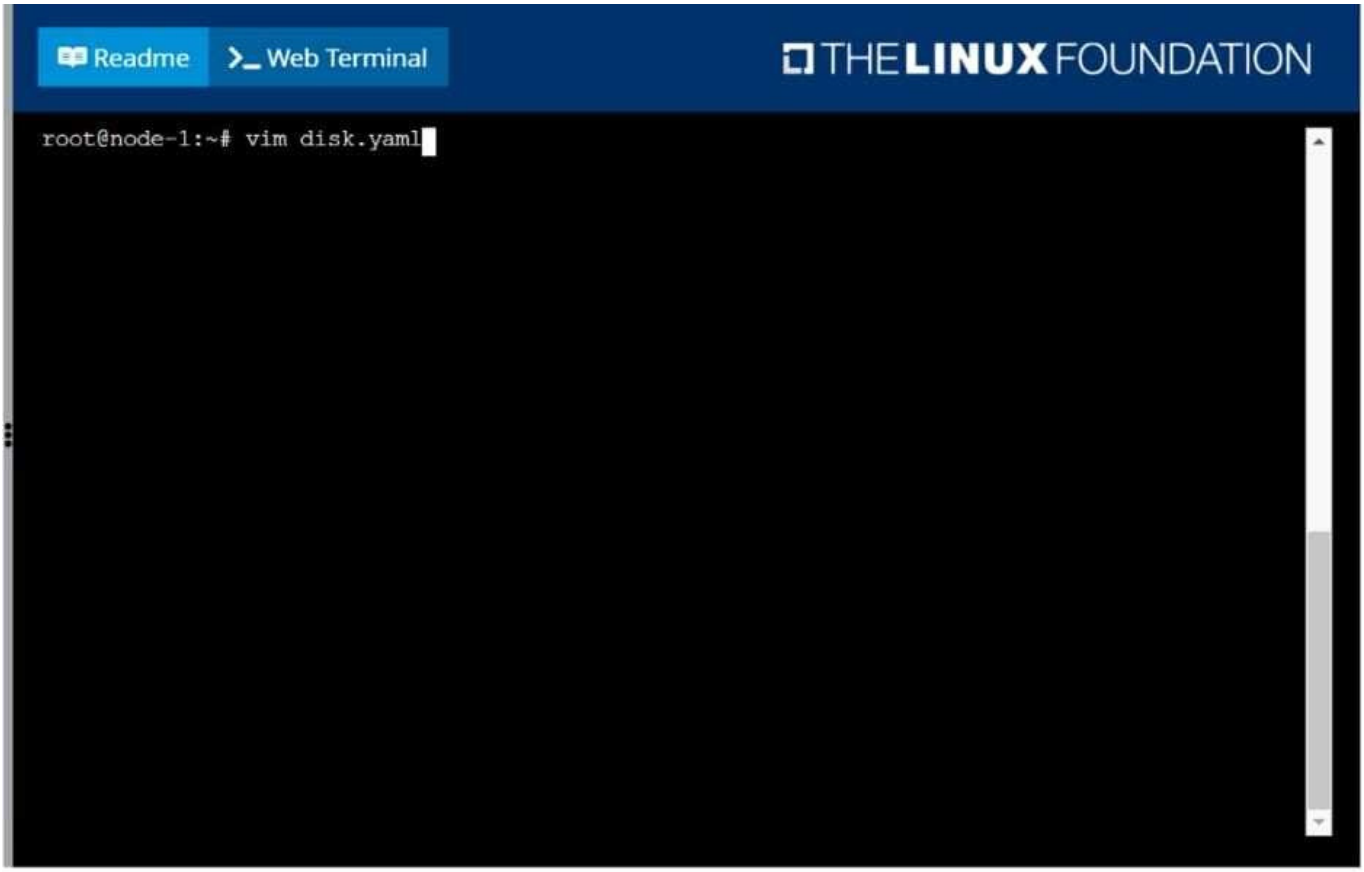
2.

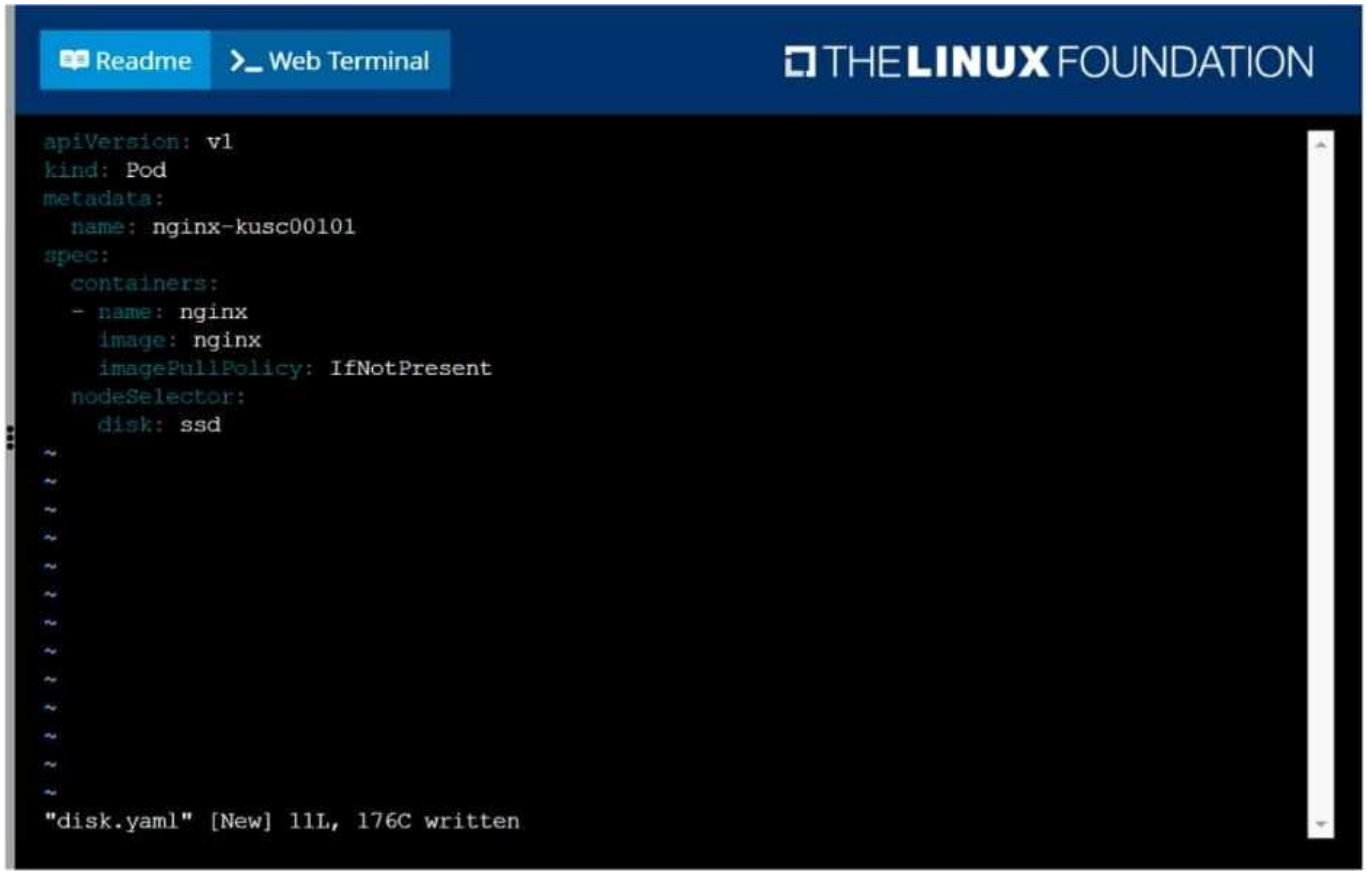
Image: nginx

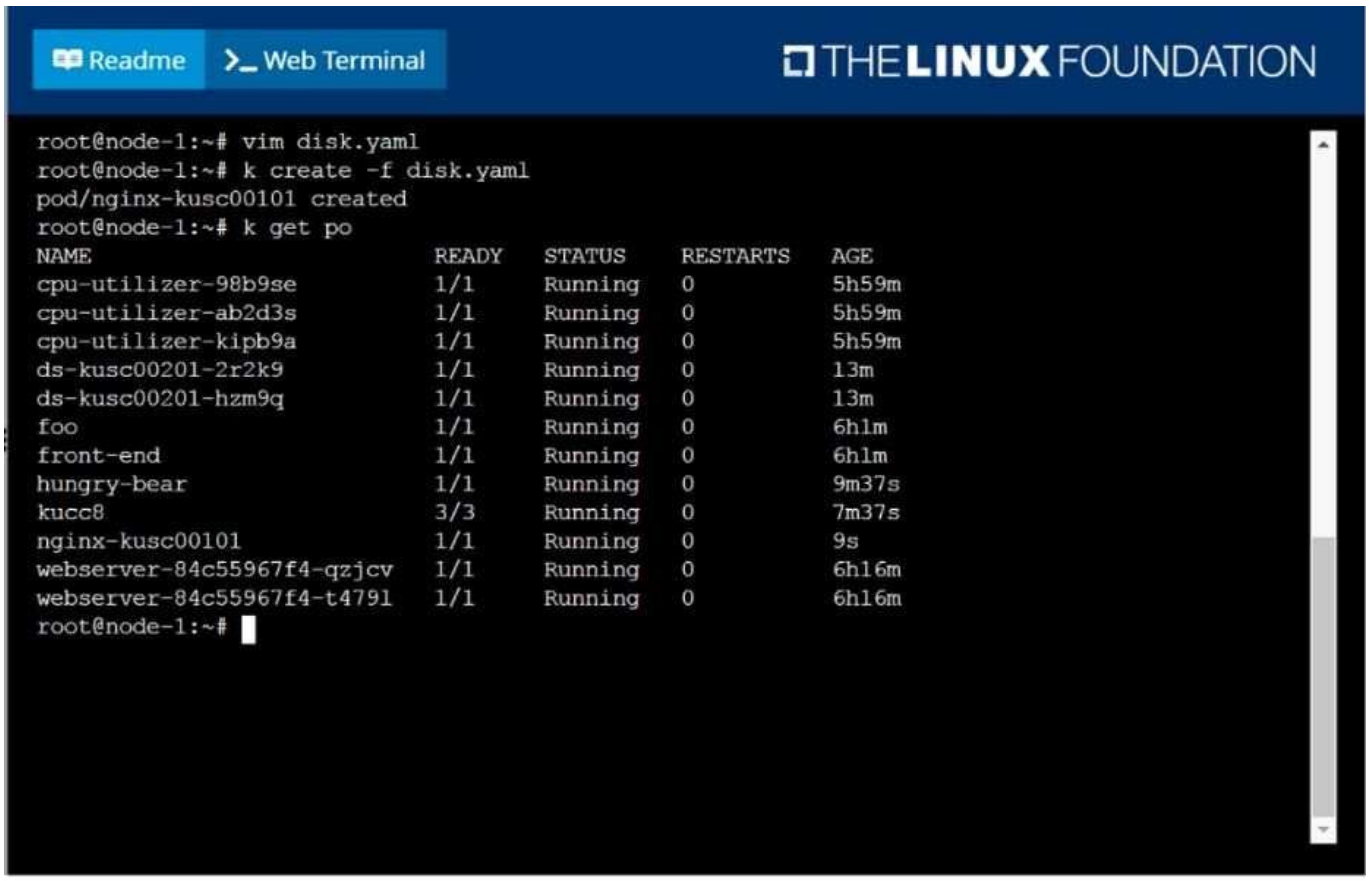
3.

Node selector: disk=ssd

Correct Answer: Check the answer in explanation.

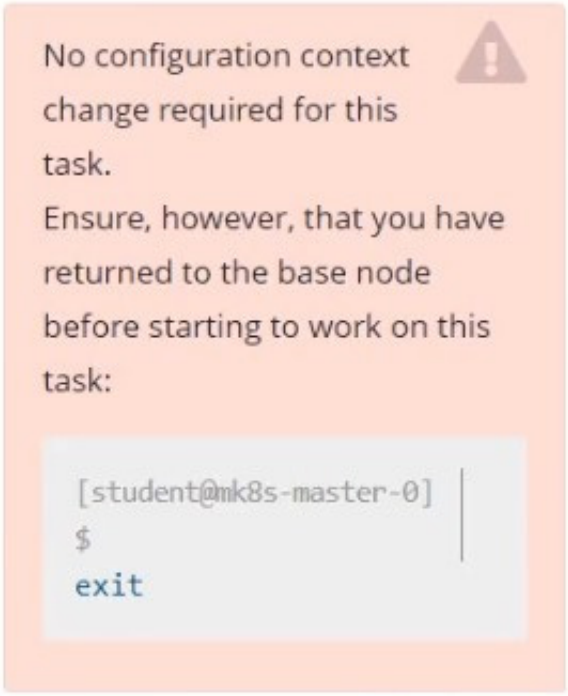



Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
name: nginx-kusc00101
spec:
containers:
- name: nginx
image: nginx
imagePullPolicy: IfNotPresent
nodeSelector:
disk: ssd
"disk.yaml" [New] 11L, 176C written


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

**QUESTION 5**

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.

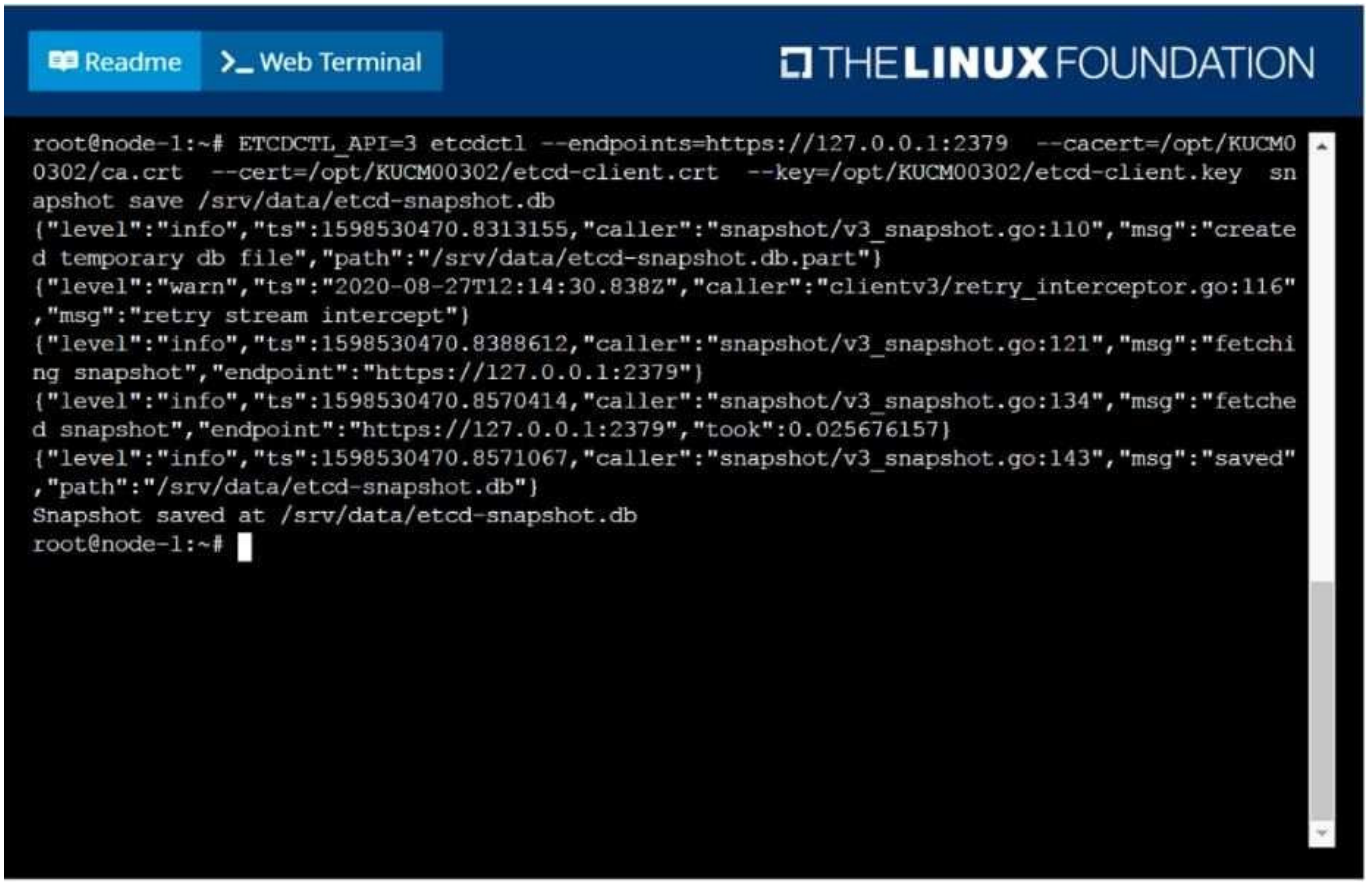
Client certificate: /opt/KUCM00302/etcd-client.crt

3.

Client key: Topt/KUCM00302/etcd-client.key

Correct Answer: Check the answer in explanation.

Solution

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