QUESTIONS & ANSWERS

Kill your exam at first Attempt





CNCF

CKA

Certified Kubernetes Administrator



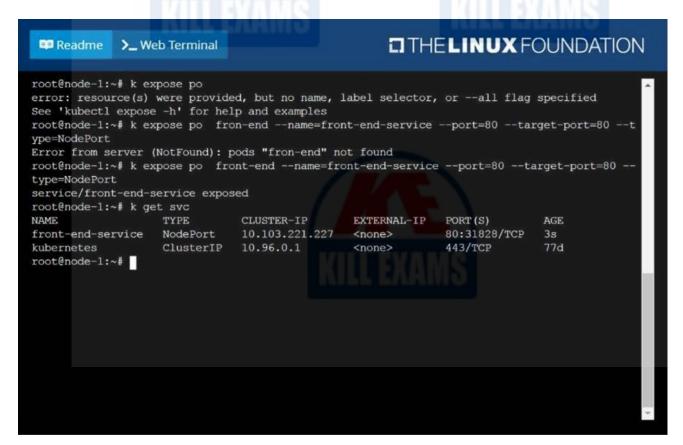




CORRECT TEXT

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

Answer: solution



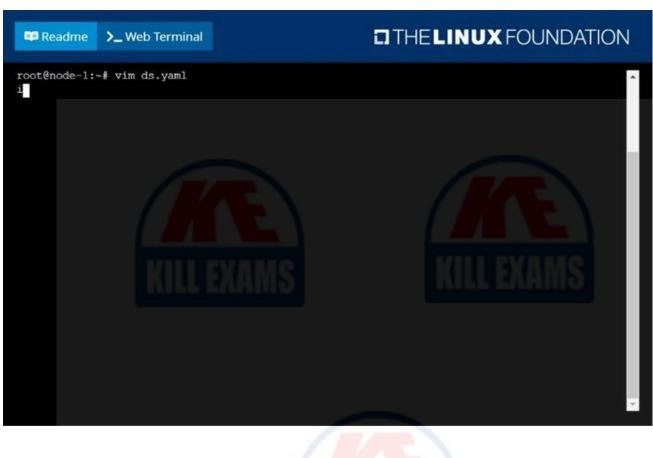
Question: 12

CORRECT TEXT

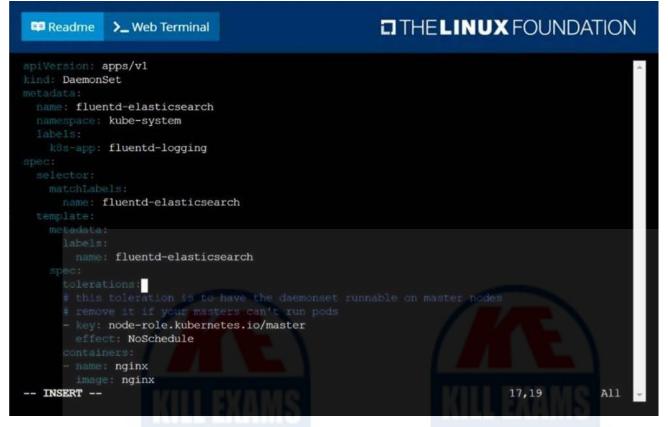
Ensure a single instance of pod nginx is running on each node of the Kubernetes cluster where nginx also represents the Image name which has to be used. Do not

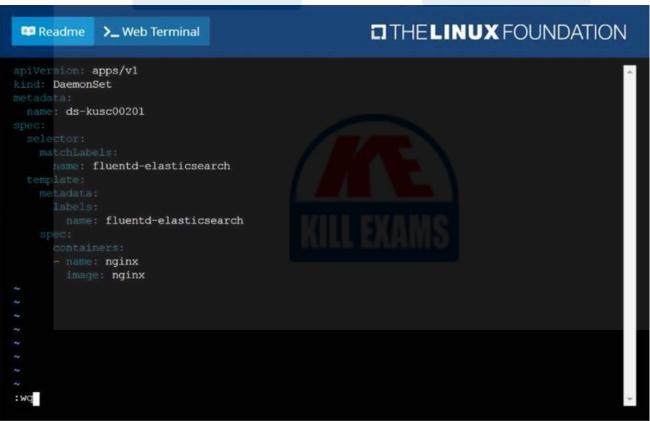
override any taints currently in place.

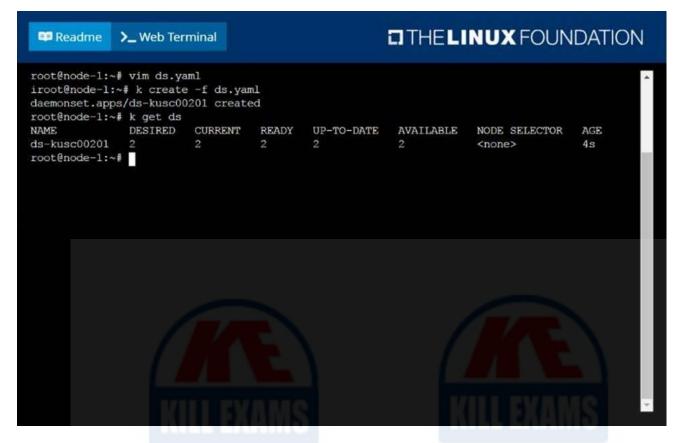
Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.







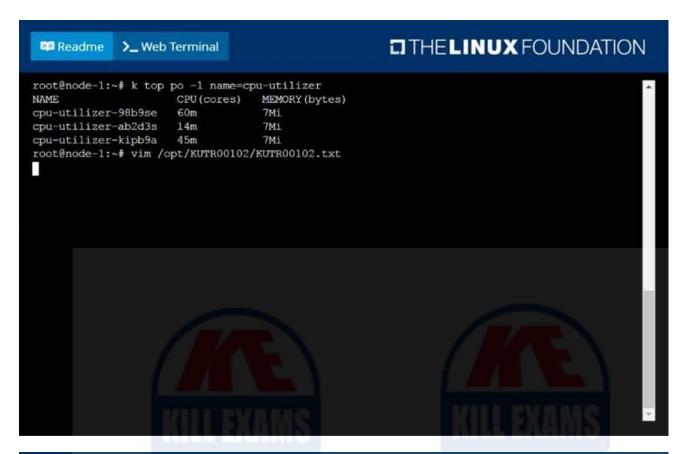


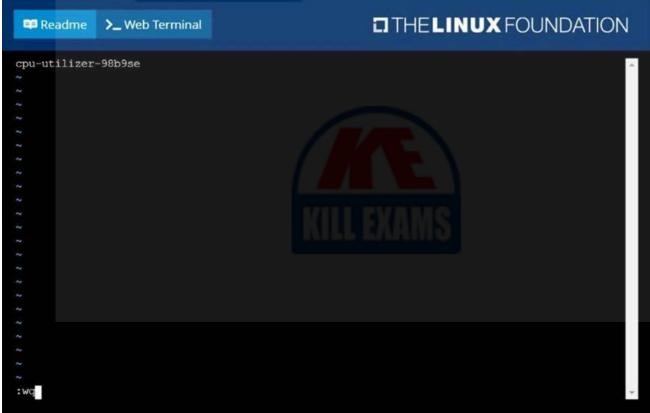


CORRECT TEXT

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).







CORRECT TEXT

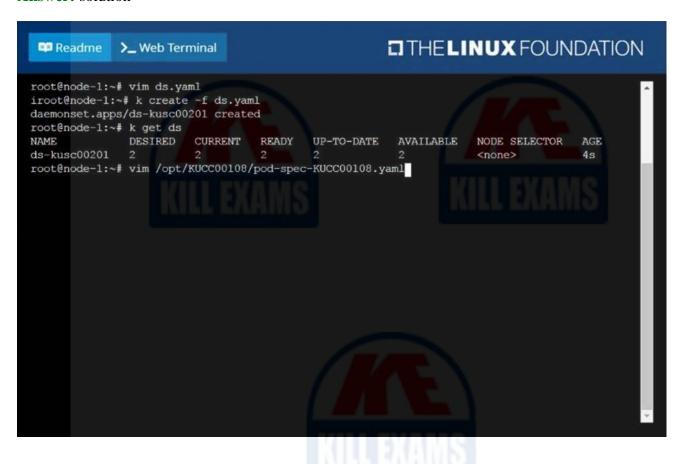
Perform the following tasks:

Add an init container to hungry-bear (which has been defined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)

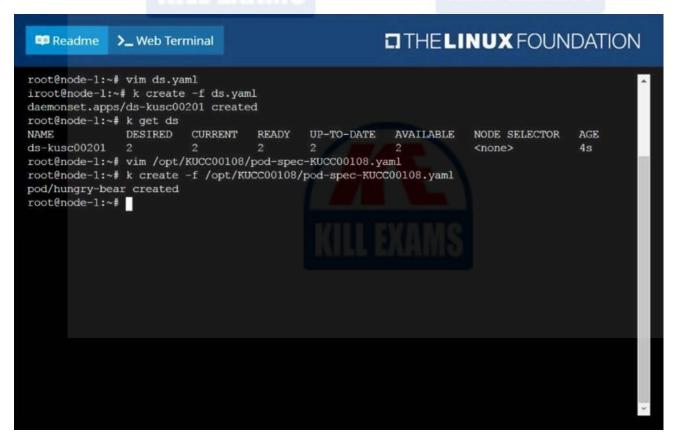
The init container should create an empty file named/workdir/calm.txt

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



```
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
nountPath: /workdir
initContainers:
- name: create
image: alpine
command: ["/bin/sh", "-c", "touch /workdir/calm.txt"]
volumeMounts:
- name: workdir
sountPath: /workdir
: wo
```

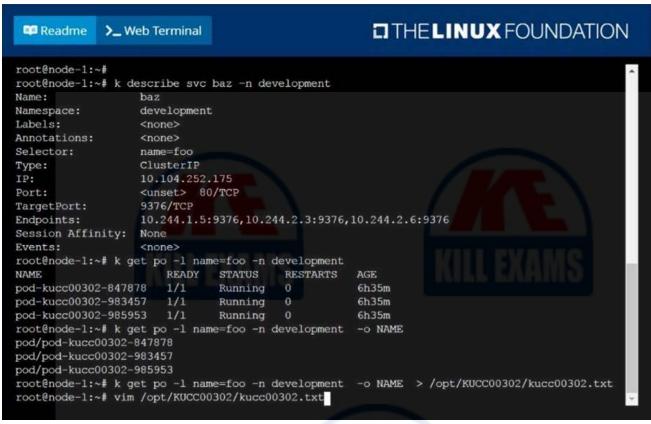


CORRECT TEXT

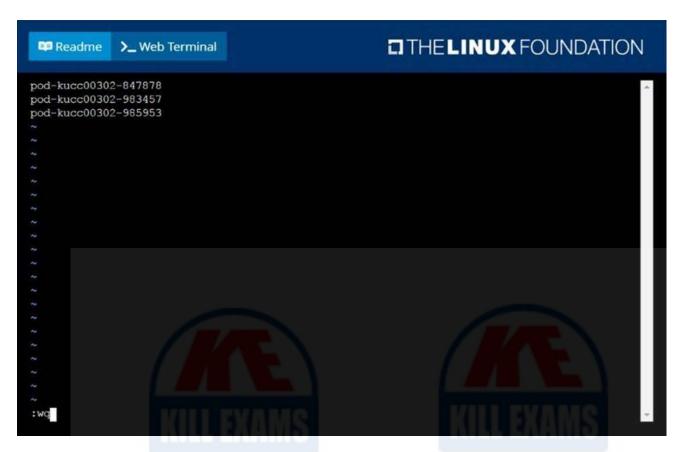
Create a file:

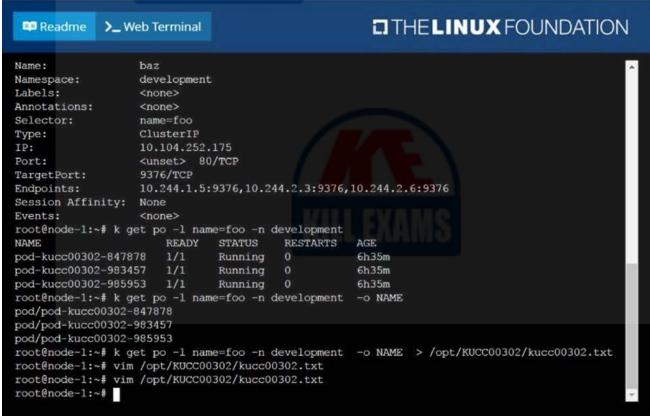
/opt/KUCC00302/kucc00302.txt that lists all pods that implement service baz in namespace development.

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









CORRECT TEXT

Create a deployment spec file that will:

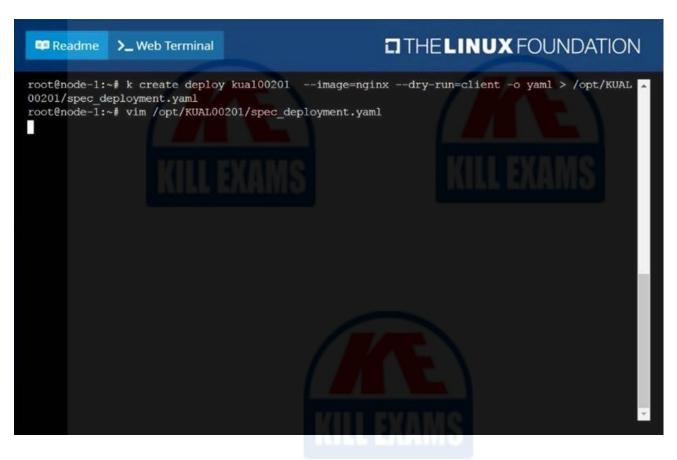
Launch 7 replicas of the nginx Image with the labelapp_runtime_stage=dev

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.





CORRECT TEXT

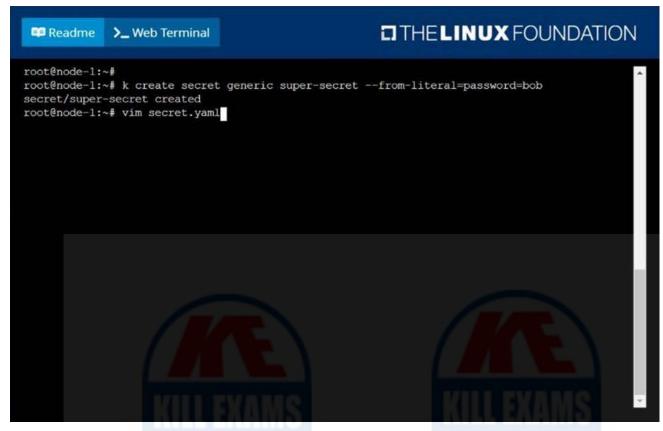
Create a Kubernetes secret as follows:

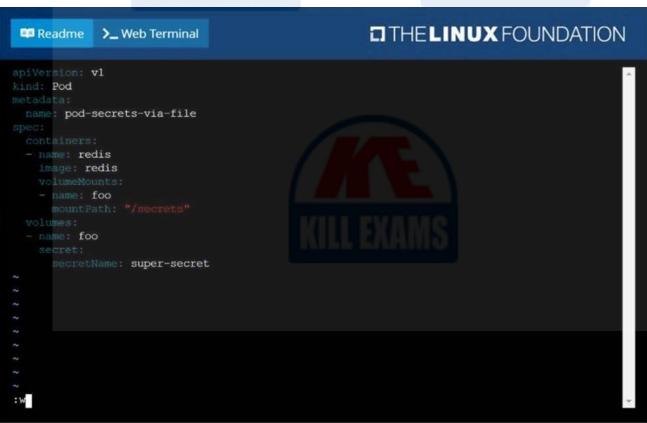
Name: super-secret

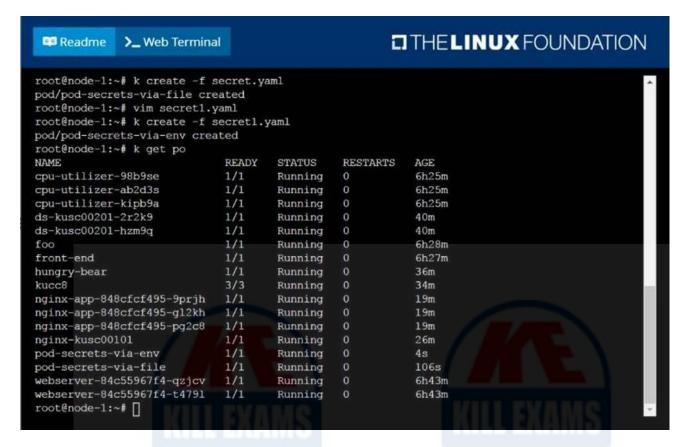
password: bob

Create a pod named pod-secrets-via-file, using the redis Image, which mounts a secret named super-secret at /secrets.

Create a second pod named pod-secrets-via-env, using the redis Image, which exports password as CONFIDENTIAL







CORRECT TEXT

Score: 7%





Task

Given an existing Kubernetes cluster running version 1.20.0, upgrade all of the Kubernetes control plane and node components on the master node only to version 1.20.1.

Be sure to drain the master node before upgrading it and uncordon it after the upgrade.



You are also expected to upgrade kubelet and kubectl on the master node.

Do not upgrade the worker nodes, etcd, the container manager, the CNI plugin, the DNS service or any other addons.

Answer: SOLUTION:

[] > ssh ek8s

kubectl cordon k8s-master

kubectl drain k8s-master -delete-local-data -ignore-daemonsets -force

apt-get install kubeadm=1.20.1-00 kubelet=1.20.1-00 kubectl=1.20.1-00 — disableexcludes=kubernetes

kubeadm upgrade apply 1.20.1 –etcd-upgrade=false

systemctl daemon-reload

systemctl restart kubelet

kubectl uncordon k8s-master

Question: 19

CORRECT TEXT

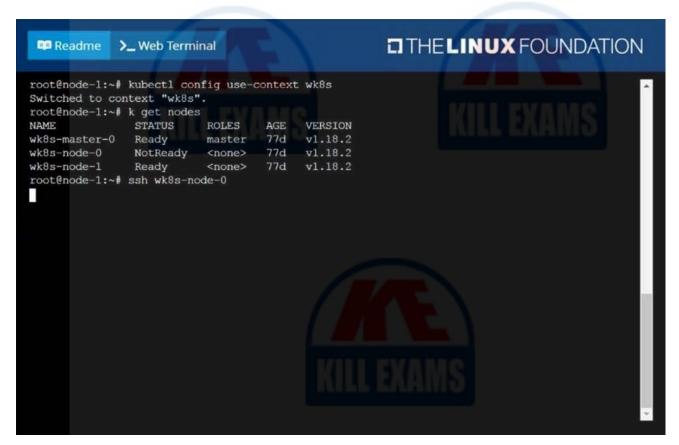
A Kubernetes worker node, named wk8s-node-0 is in state NotReady. Investigate why this is the case, and perform any appropriate steps to bring the node to a Ready state, ensuring that any changes are made permanent.

You can ssh to the failed node using:

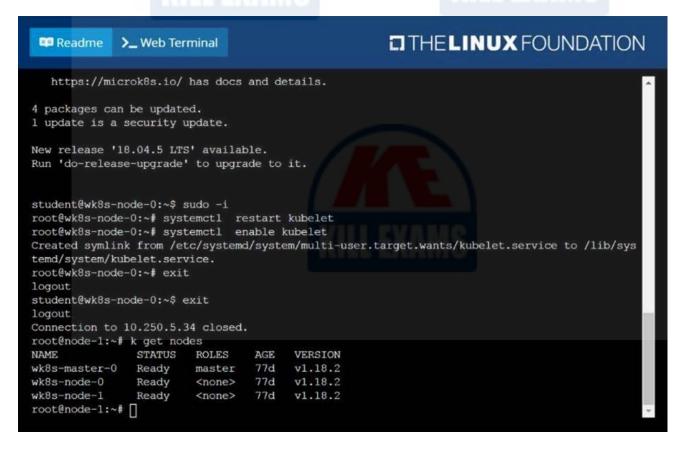
[] \$ | ssh Wk8s-node-0

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

[] \$ | sudo Ci



```
THE LINUX FOUNDATION
 Readme
             >_ Web Terminal
wk8s-node-0
               NotReady
                                   77d
                                         v1.18.2
                          <none>
                                   77d
                                         v1.18.2
wk8s-node-1
               Ready
                          <none>
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
                  https://ubuntu.com/advantage
  Support:
 * 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
```



CORRECT TEXT

Create a pod as follows:

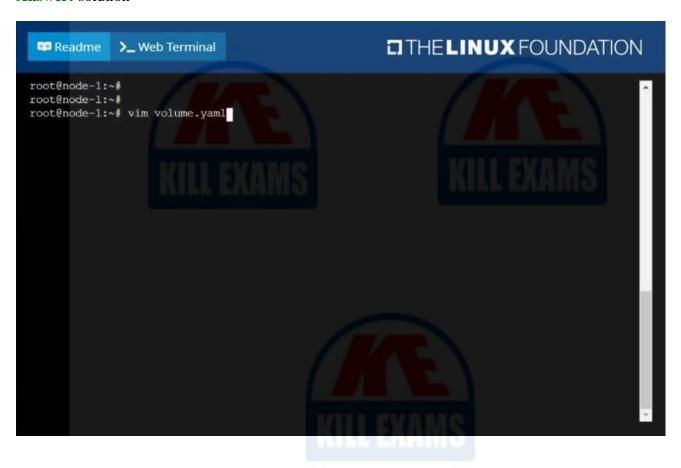
Name: non-persistent-redis

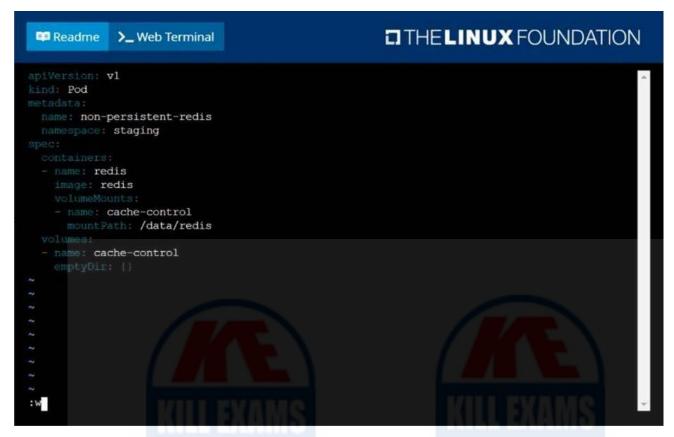
container Image: redis

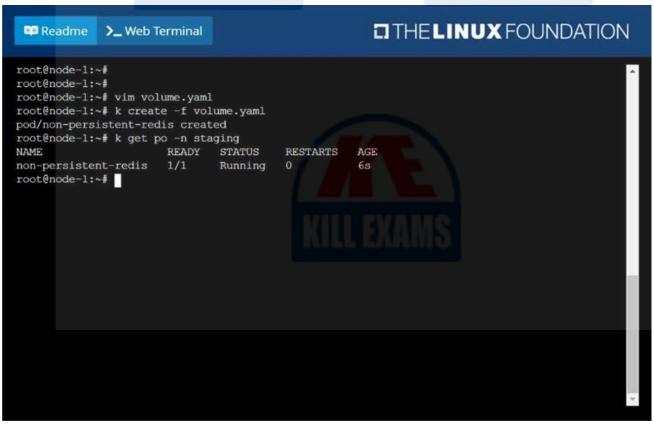
Volume with name: cache-control

Mount path: /data/redis

The pod should launch in the staging namespace and the volume must not be persistent.







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