# CKA Q&As

Certified Kubernetes Administrator (CKA) Program

## Pass Linux Foundation CKA Exam with 100% Guarantee

Free Download Real Questions & Answers **PDF** and **VCE** file from:

**https://www.passapply.com/cka.html**

100% Passing Guarantee
100% Money Back Assurance

Following Questions and Answers are all new published by Linux Foundation Official Exam Center

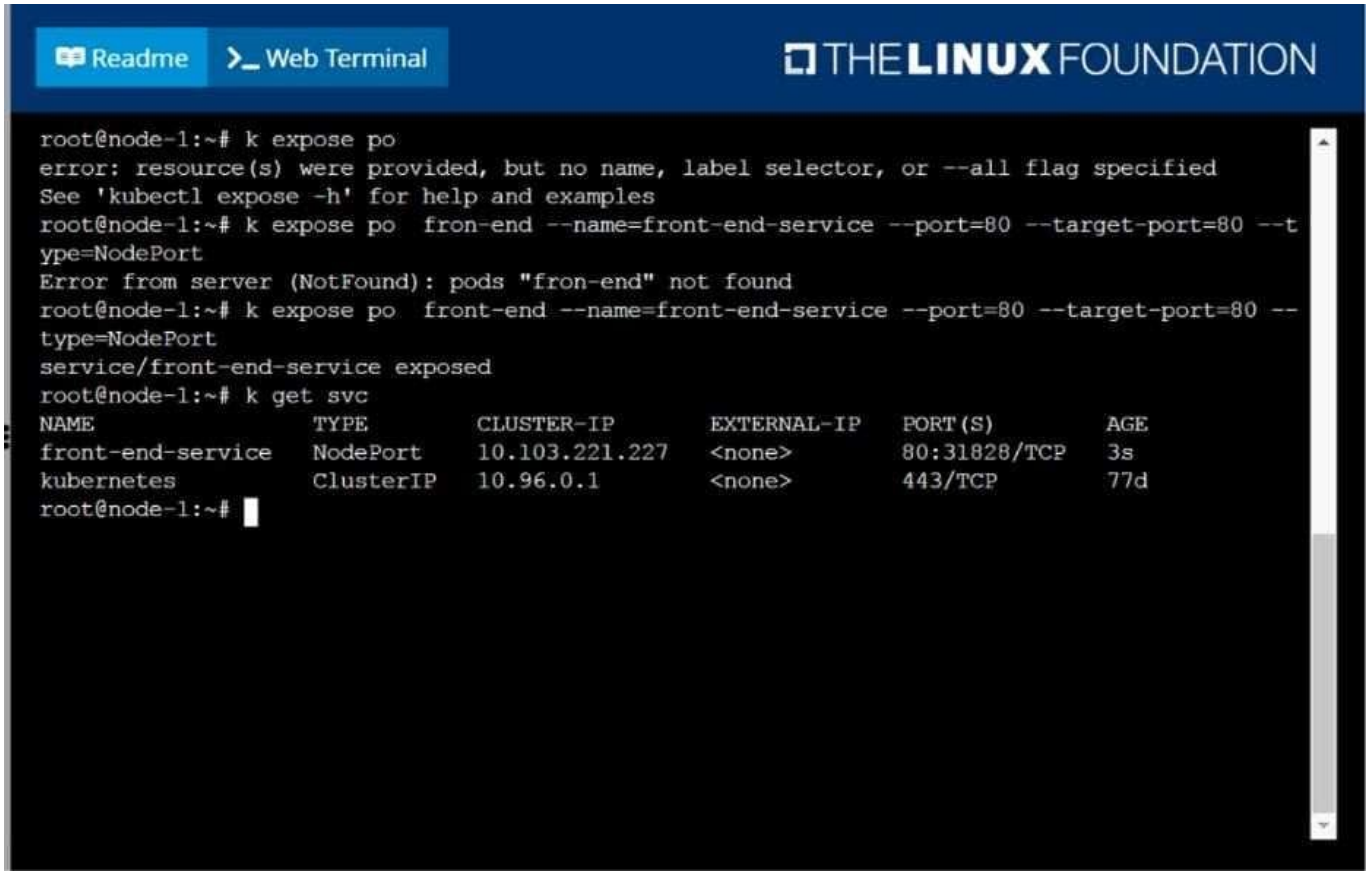
**QUESTION 1**

SIMULATION

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

Correct Answer: Check the answer in explanation.

Solution




**QUESTION 2**

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

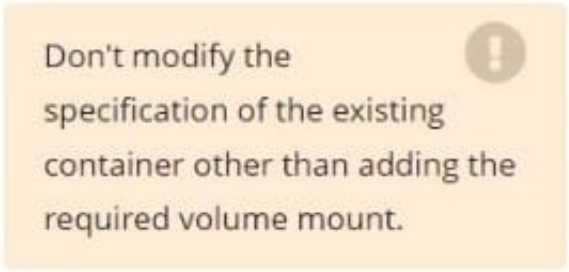
**QUESTION 3**

CORRECT TEXT


Context An existing Pod needs to be integrated into the Kubernetes built-in logging architecture (e.g.kubectl logs). Adding a streaming sidecar container is a good and common way to accomplish this requirement. Task

Add a sidecar container named sidecar, using the busybox Image, to the existing Pod big- corp-app. The new sidecar container has to run the following command:

/bin/sh -c tail -n+1 -f /va r/log/big-corp-app.log Use a Volume, mounted at /var/log, to make the log file big-corp-app.log available to the sidecar container.




Correct Answer: Check the answer in explanation.

# kubectl get pod big-corp-app -o yaml # apiVersion: v1 kind: Pod metadata: name: big-corp-app spec: containers:

-name: big-corp-app

image: busybox

args:

-/bin/sh

- -c

->

i=0;

while true;

do

echo "$(date) INFO $i" >> /var/log/big-corp-app.log; i=$((i+1));

sleep 1;

done

volumeMounts:

-

name: logs

mountPath: /var/log

-

name: count-log-1

image: busybox

args: [/bin/sh, -c, \\'tail -n+1 -f /var/log/big-corp-app.log\\'] volumeMounts:

-

name: logs

mountPath: /var/log

volumes:

-

name: logs

emptyDir: {

}

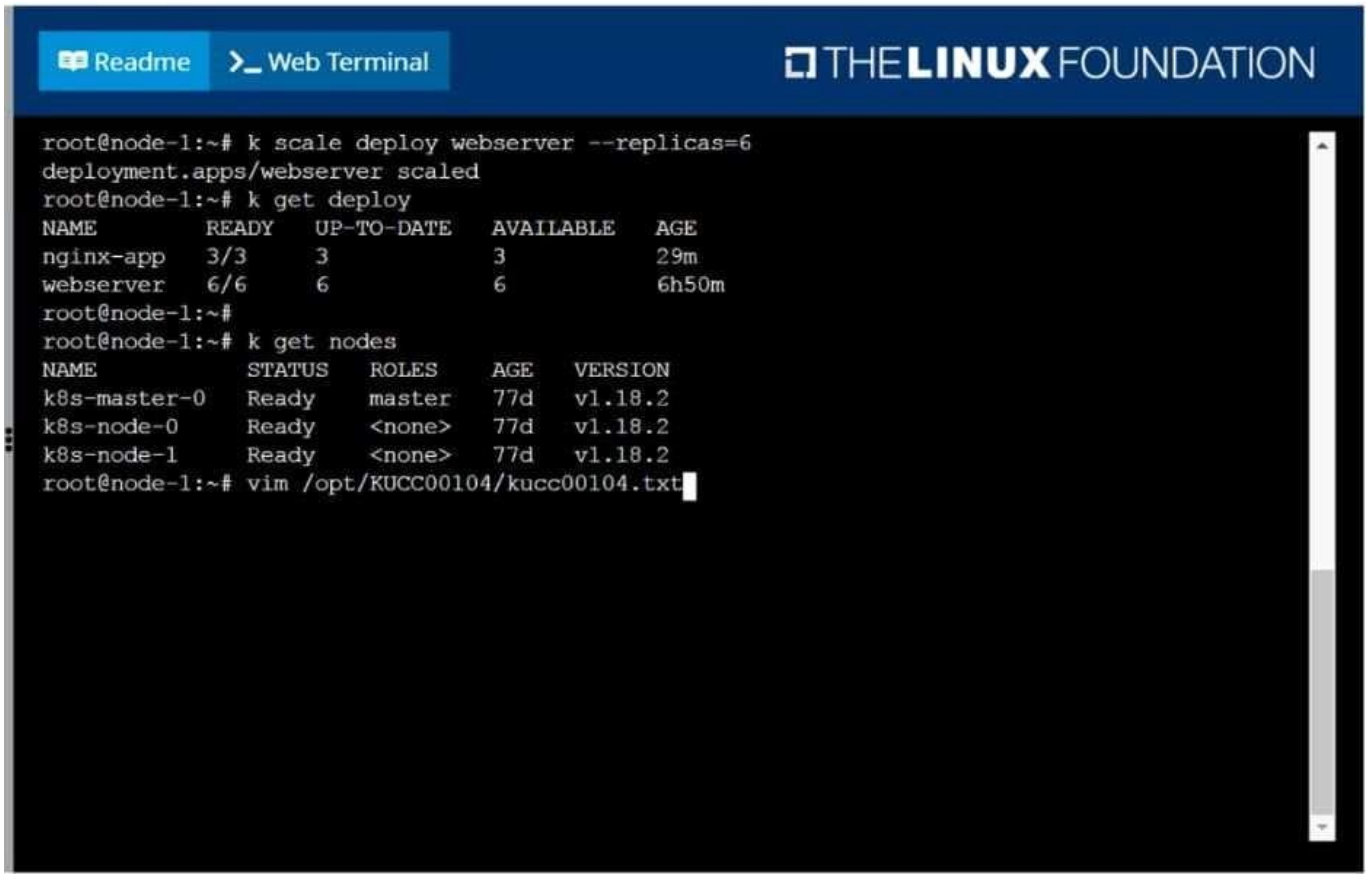
# kubectl logs big-corp-app -c count-log-1

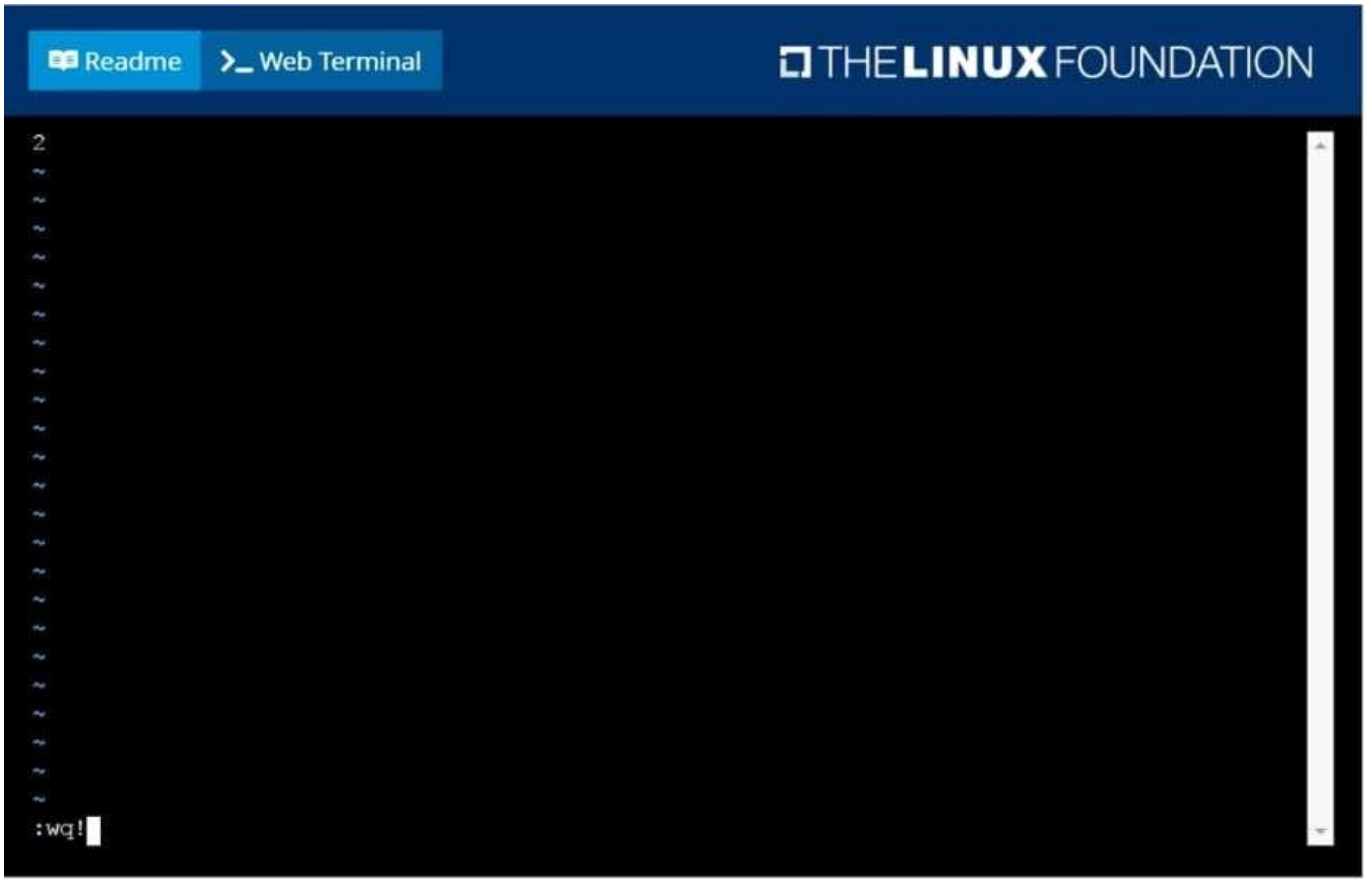
**QUESTION 4**

SIMULATION

Check to see how many worker nodes are ready (not including nodes tainted NoSchedule) and write the number to /opt/KUCC00104/kucc00104.txt.

Correct Answer: Check the answer in explanation.


Readme
Web Terminal
THE LINUX FOUNDATION
root@node-1:~# k scale deploy webserver --replicas=6
deployment.apps/webserver scaled
root@node-1:~# k get deploy
NAME READY UP-TO-DATE AVAILABLE AGE
nginx-app 3/3 3 3 29m
webserver 6/6 6 6 6h50m
root@node-1:~#
root@node-1:~# k get nodes
NAME STATUS ROLES AGE VERSION
k8s-master-0 Ready master 77d v1.18.2
k8s-node-0 Ready <none> 77d v1.18.2
k8s-node-1 Ready <none> 77d v1.18.2
root@node-1:~# vim /opt/KUCC00104/kucc00104.txt


Readme
Web Terminal
THE LINUX FOUNDATION
2
:wq!

**QUESTION 5**

List the nginx pod with custom columns POD_NAME and POD_STATUS

Correct Answer: Check the answer in explanation.

Solution

kubectl get po -o=custom-columns="POD_NAME:.metadata.name, POD_STATUS:.status.containerStatuses[].state"

---

**QUESTION 6**

Create a busybox pod and add "sleep 3600" command

Correct Answer: Check the answer in explanation.

Solution

kubectl run busybox --image=busybox --restart=Never -- /bin/sh -c "sleep 3600"

---

**QUESTION 7**

Check the image version in pod without the describe command

Correct Answer: Check the answer in explanation.

kubectl get po nginx -o jsonpath=\\'{.spec.containers[].image}{"\n"}\\'

---

**QUESTION 8**

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

Correct Answer: Check the answer in explanation.

Kubect1 get po -o wide Using JsonPath kubect1 get pods -o=jsonpath=\\'{range .items[*]}{.metadata.name}{"\t"}{.status.podIP}{"\n"}{end}\\'

---

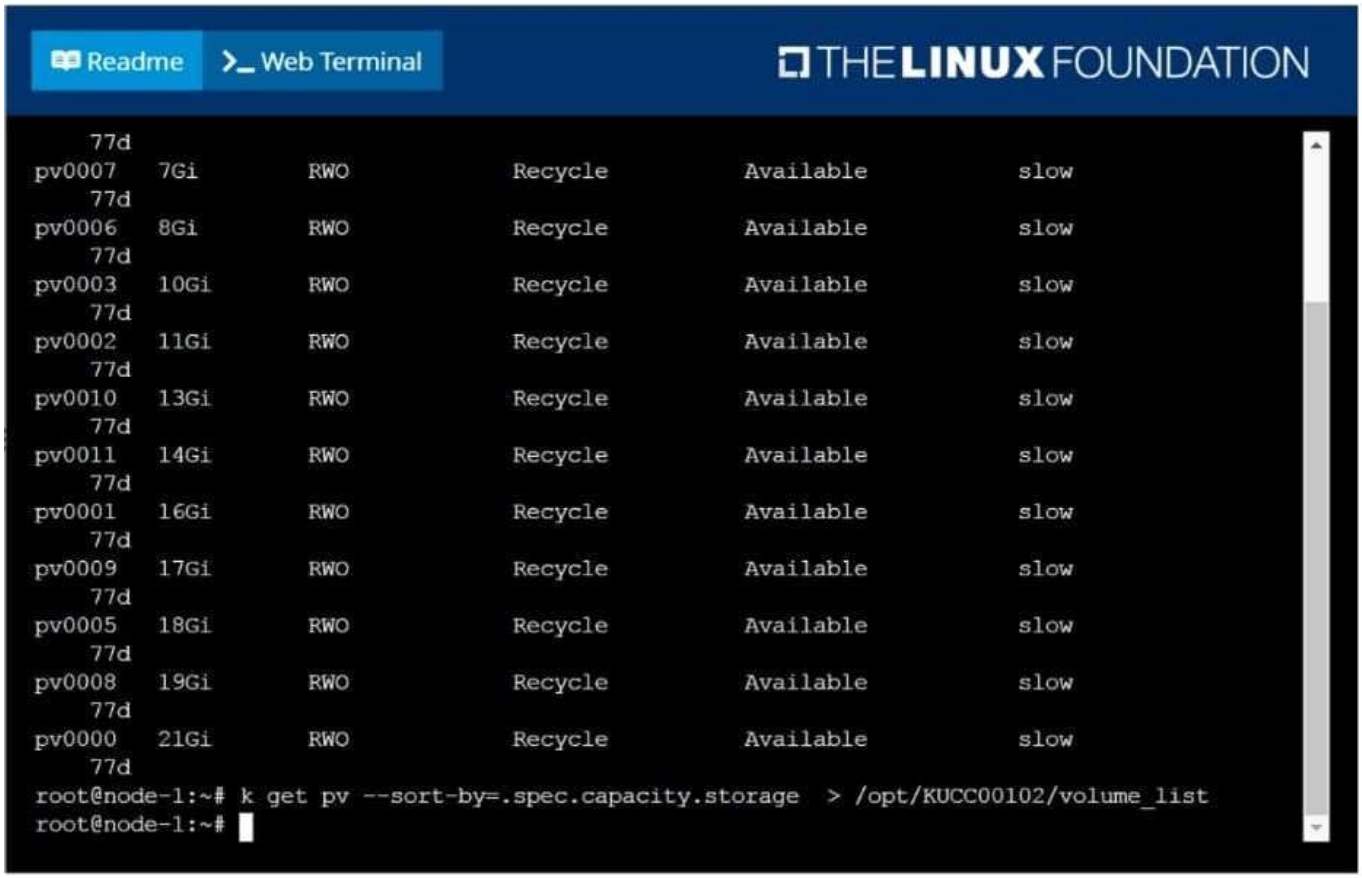
**QUESTION 9**

SIMULATION

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.

Correct Answer: Check the answer in explanation.

Solution




**QUESTION 10**

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"

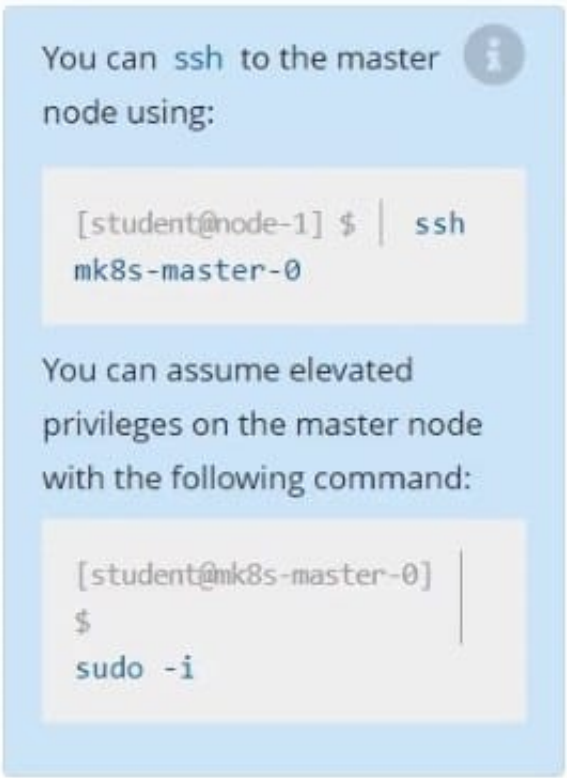
**QUESTION 11**

CORRECT TEXT

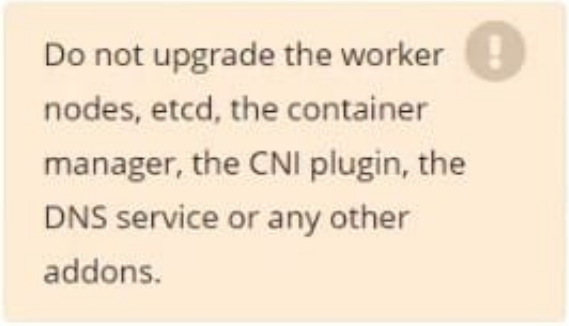

Task

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.




Correct Answer:

[student@node-1] > 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 12**

Create a busybox pod that runs the command "env" and save the output to "envpod" file

Correct Answer: Check the answer in explanation.

Solution

kubectl run busybox --image=busybox --restart=Never -rm -it -- env>; envpod.yaml

**QUESTION 13**

List all the pods sorted by name

Correct Answer: Check the answer in explanation.

Solution

kubectl get pods --sort-by=.metadata.name

**QUESTION 14**

List pod logs named "frontend" and search for the pattern "started" and write it to a file "/opt/error- logs"

Correct Answer: Check the answer in explanation.

Kubectl logs frontend | grep -i "started" > /opt/error-logs

**QUESTION 15**

SIMULATION

Monitor the logs of pod foo and:

1. Extract log lines corresponding to error

2. unable-to-access-website Write them to /opt/KULM00201/foo


Correct Answer: Check the answer in explanation.