

Linux-Foundation

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program





Score: 4%



Task

Create a persistent volume with name app-data, of capacity 1Gi and access mode ReadOnlyMany. The type of volume is hostPath and its location is /srv/app-data.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

#vi pv.yaml apiVersion: v1 kind: PersistentVolume metadata:

name: app-config spec:

capacity: storage: 1Gi accessModes:

ReadOnlyMany hostPath: path: /srv/app-config

#

kubectl create -f pv.yaml

NEW QUESTION 2

Score:7%



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.

Don't modify the specification of the existing container other than adding the required volume mount.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

#

https://www.surepassexam.com/CKA-exam-dumps.html (67 New Questions)

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

NEW QUESTION 3

List the nginx pod with custom columns POD_NAME and POD_STATUS

A. MasteredB. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 4

Create a pod that having 3 containers in it? (Multi-Container)

A. Mastered B. Not Mastered

Answer: A

Explanation:

image=nginx, image=redis, image=consul Name nginx container as "nginx-container" Name redis container as "redis-container" Name consul container as "consul-container"

Create a pod manifest file for a container and append container section for rest of the images

kubectl run multi-container --generator=run-pod/v1 --image=nginx -- dry-run -o yaml > multi-container.yaml

then

vim multi-container.yaml apiVersion: v1

kind: Pod metadata: labels:

run: multi-container name: multi-container spec:

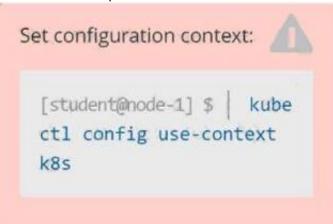
containers:
- image: nginx
name: nginx-container
- image: redis
name: redis-container
- image: consul

name: consul-container restartPolicy: Always

NEW QUESTION 5

Monitor the logs of pod foo and:

- Extract log lines corresponding to error unable-to-access-website
- Write them to/opt/KULM00201/foo





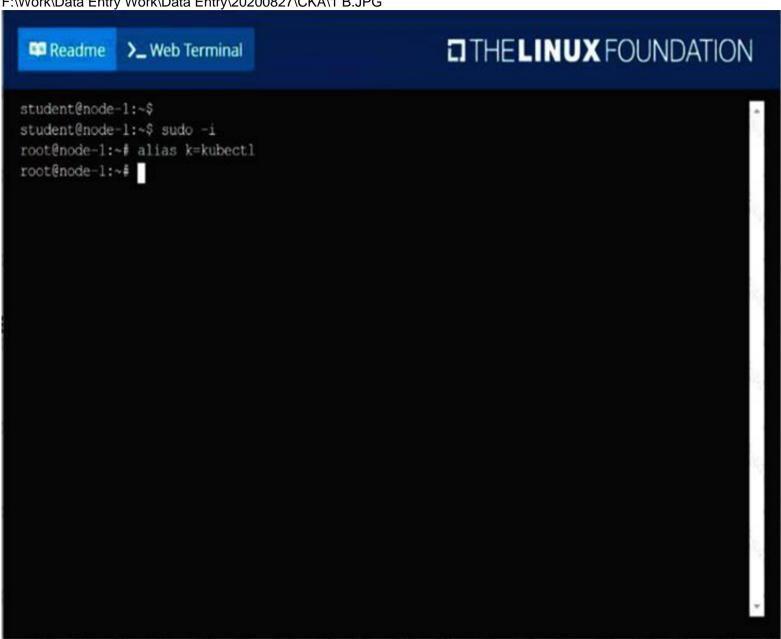
A. Mastered B. Not Mastered

Answer: A

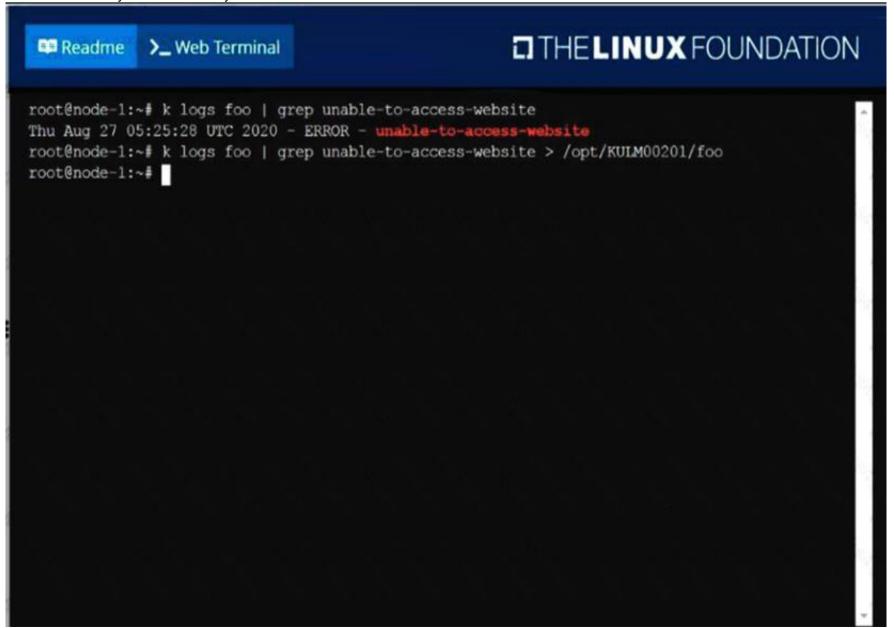
Explanation:

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\1 B.JPG



F:\Work\Data Entry\20200827\CKA\1 C.JPG





Score: 4%



Task

Scale the deployment presentation to 6 pods.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

kubectl get deployment

kubectl scale deployment.apps/presentation --replicas=6

NEW QUESTION 7

Create a deployment as follows:

- Name: nginx-app
- Using container nginx with version 1.11.10-alpine
- > The deployment should contain 3 replicas

Next, deploy the application with new version 1.11.13-alpine, by performing a rolling update.

Finally, rollback that update to the previous version 1.11.10-alpine.

A. Mastered

B. Not Mastered

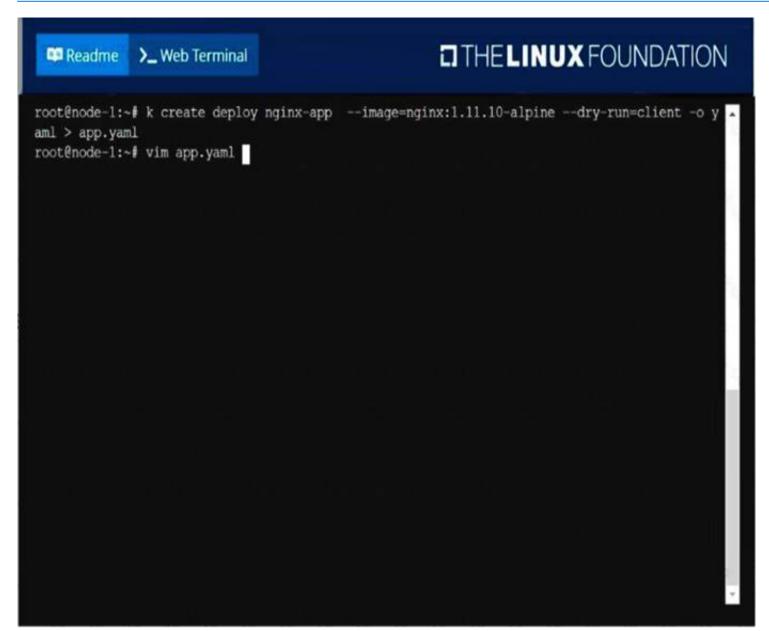
Answer: A

Explanation:

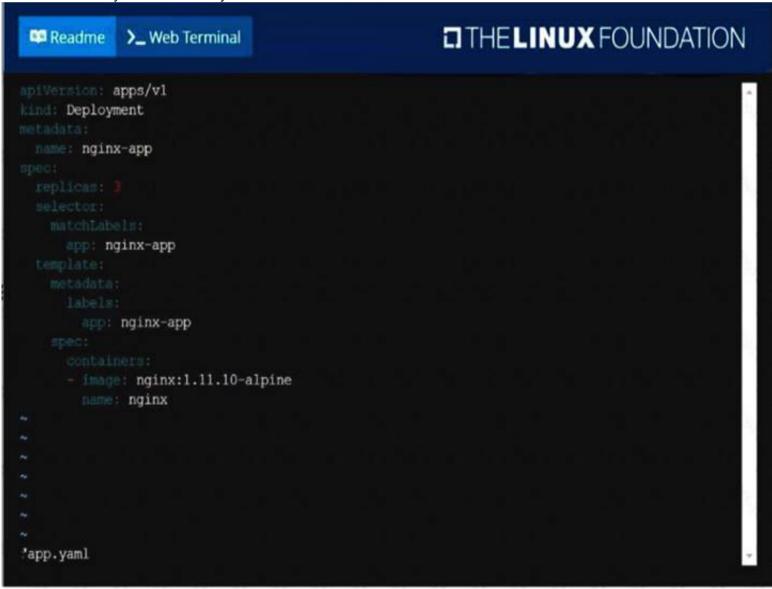
solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\7 B.JPG





F:\Work\Data Entry Work\Data Entry\20200827\CKA\7 C.JPG



F:\Work\Data Entry Work\Data Entry\20200827\CKA\7 D.JPG

root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o y aml > app.yaml
root@node-1:~# vim app.yaml
root@node-1:~# k create -f app.yaml
deployment.apps/nginx-app created
root@node-1:~# root@node-1:~#
root@node-1:~# k set image deploy nginx-app nginx=nginx:1.11.13-alpine --record
deployment.apps/nginx-app image updated
root@node-1:~# k rollout undo deploy nginx-app
deployment.apps/nginx-app rolled back
root@node-1:~#

NEW QUESTION 8

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.

A. Mastered

B. Not Mastered

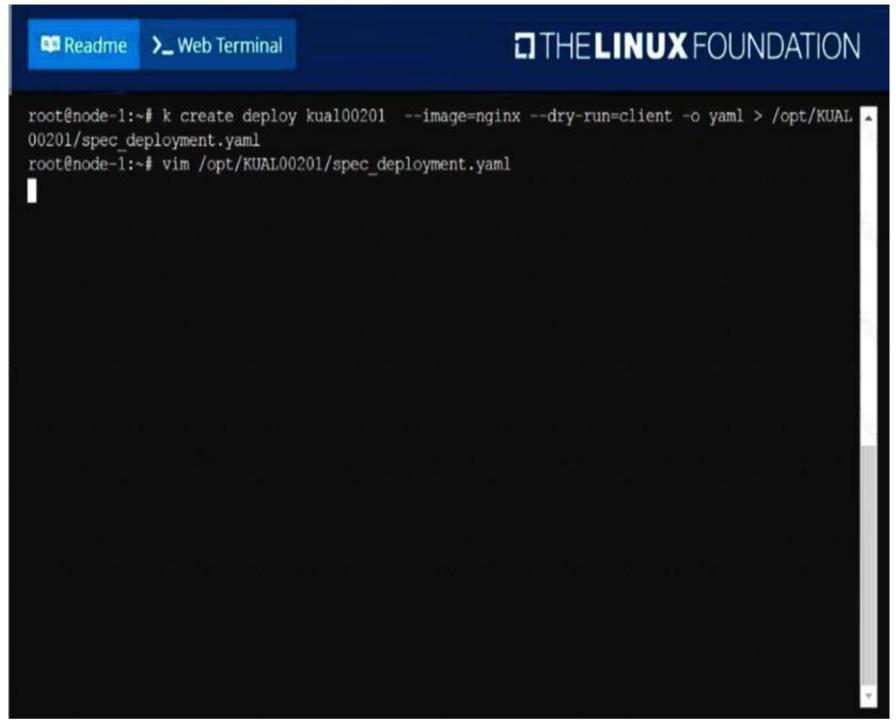
Answer: A

Explanation:

solution

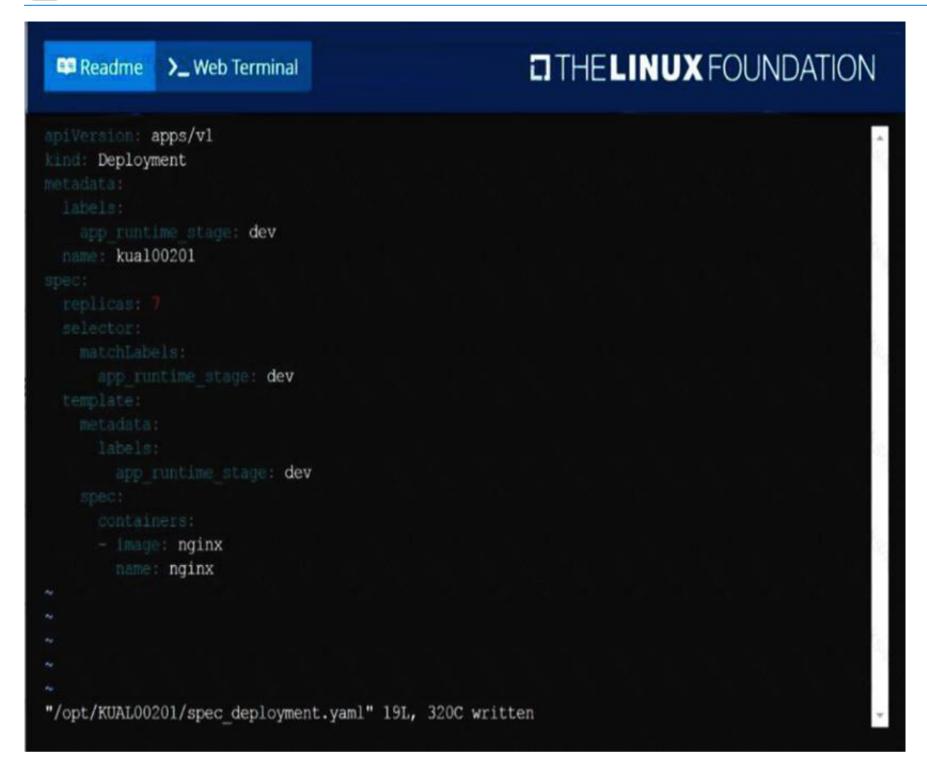
F:\Work\Data Entry Work\Data Entry\20200827\CKA\10 B.JPG





F:\Work\Data Entry Work\Data Entry\20200827\CKA\10 C.JPG

https://www.surepassexam.com/CKA-exam-dumps.html (67 New Questions)



NEW QUESTION 9

Create a pod as follows:

- Name: mongo
- Using Image: mongo
- In a new Kubernetes namespace named: my-website

A. Mastered

B. Not Mastered

Answer: A

Explanation:

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\9 B.JPG

THE LINUX FOUNDATION >_ Web Terminal Readme root@node-1:~# root@node-1:~# root@node-1:~# k create ns my-website namespace/my-website created root@node-1:~# k run mongo --image=mongo -n my-website pod/mongo created root@node-1:~# k get po -n my-website STATUS NAME READY RESTARTS AGE 0/1 mongo ContainerCreating 45 root@node-1:~#

NEW QUESTION 10

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

A. Mastered

B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 10

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.

A. Mastered

B. Not Mastered

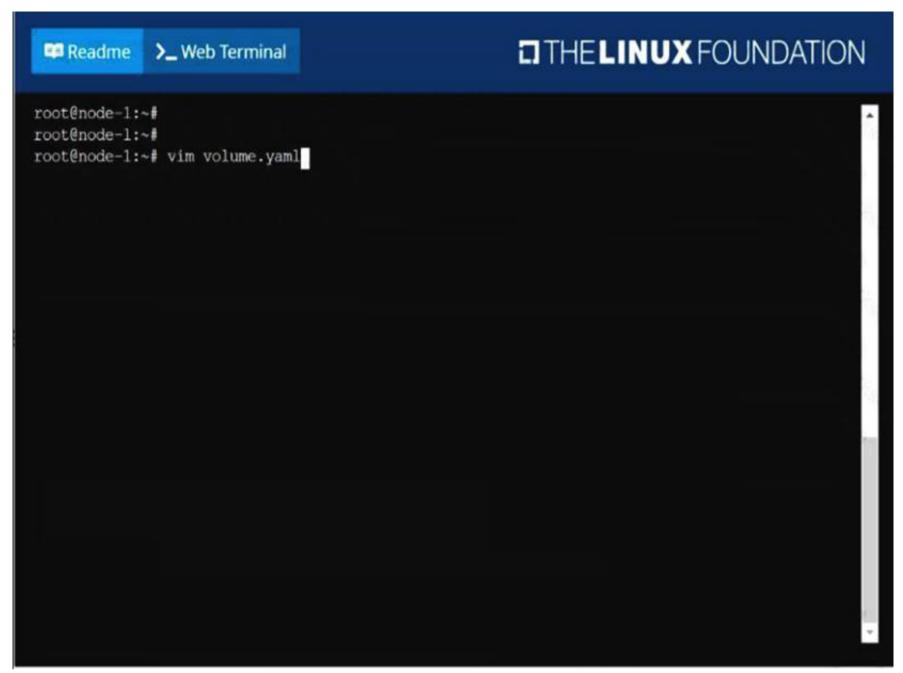
Answer: A

Explanation:

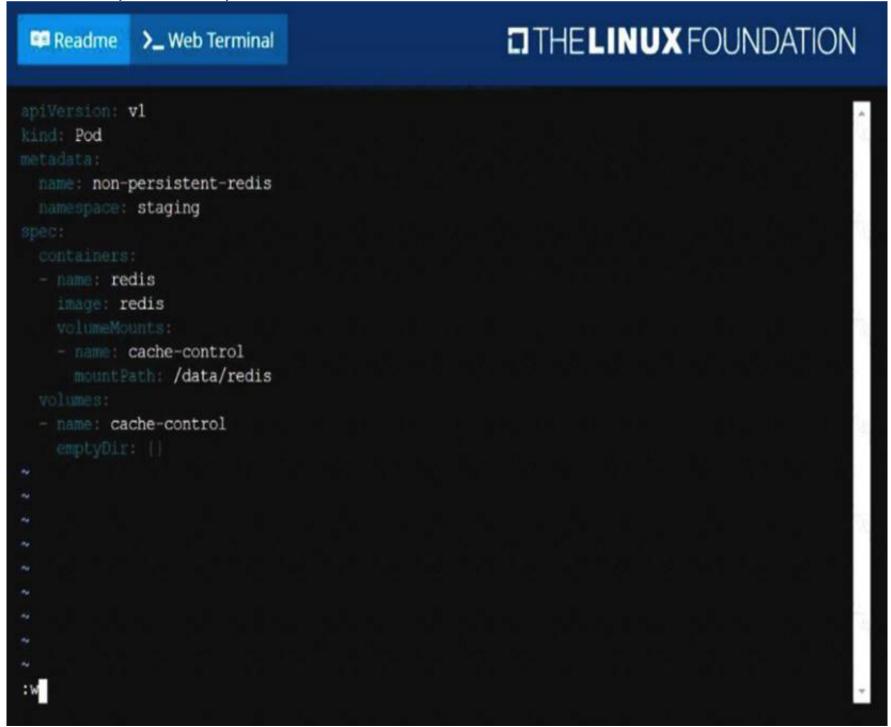
solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\13 B.JPG



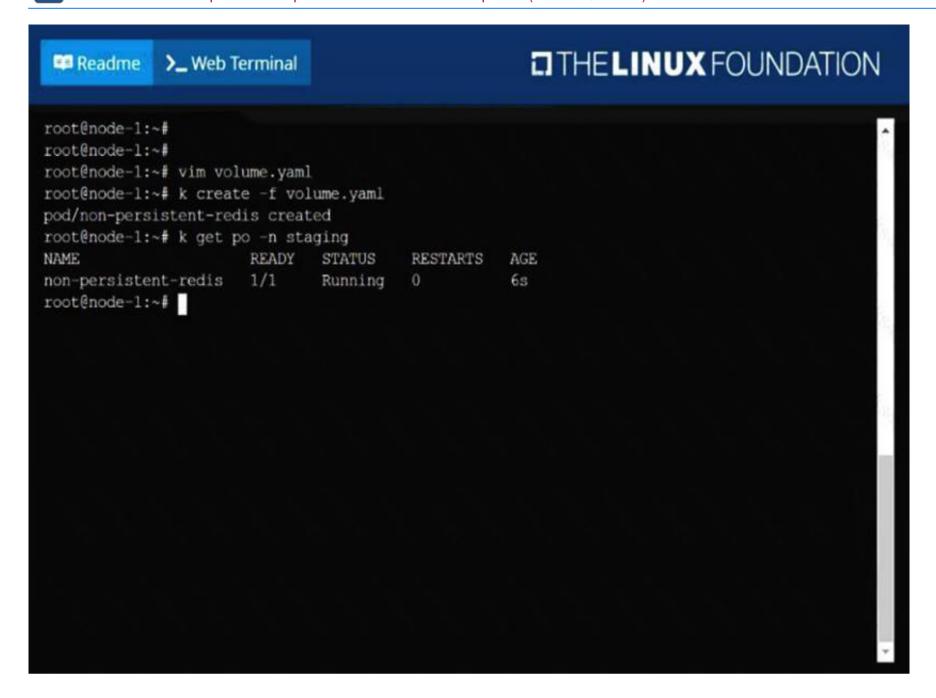


F:\Work\Data Entry Work\Data Entry\20200827\CKA\13 C.JPG



F:\Work\Data Entry Work\Data Entry\20200827\CKA\13 D.JPG





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

A. Mastered

B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 17

Create a pod that echo "hello world" and then exists. Have the pod deleted automatically when it's completed

A. Mastered

B. Not Mastered

Answer: A

Explanation:

kubectl run busybox --image=busybox -it --rm --restart=Never -

/bin/sh -c 'echo hello world'

kubectl get po # You shouldn't see pod with the name "busybox"

NEW QUESTION 18

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.
- A. Mastered
- B. Not Mastered

Answer: A



Explanation:

solution

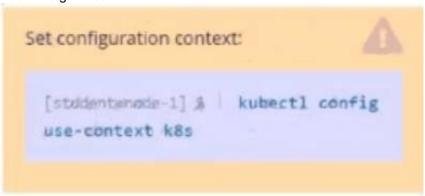
You must use the kubeadm configuration file located at /etc/kubeadm.conf when initializingyour cluster.

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.

NEW QUESTION 22

Task Weight: 4%



Task

Scale the deployment webserver to 3 pods.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

```
student@node-1:~$ kubectl scale deploy webserver --replicas=3
deployment.apps/webserver scaled
student@node-1:~$ kubectl scale deploy webserver --replicas=3
```

NEW QUESTION 25

Create a pod named kucc8 with a single app container for each of the following images running inside (there may be between 1 and 4 images specified): nginx + redis + memcached.

A. Mastered

B. Not Mastered

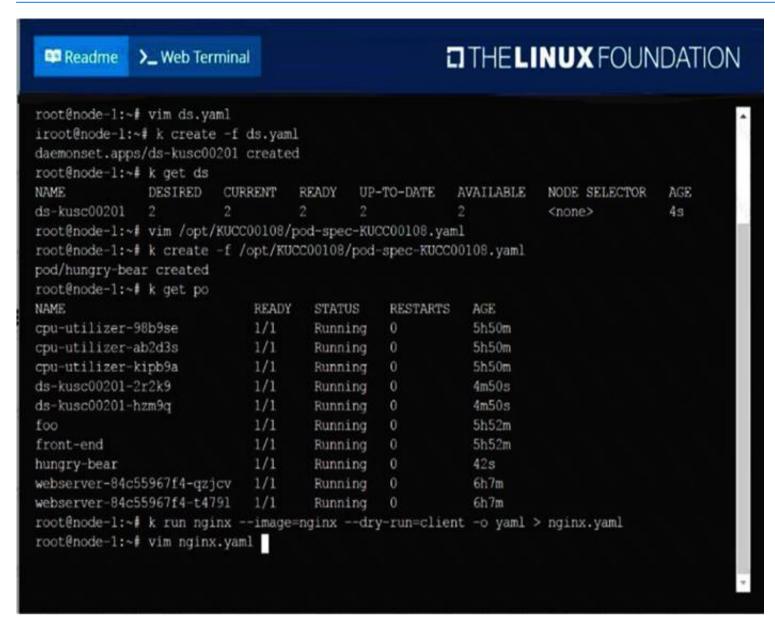
Answer: A

Explanation:

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\5 B.JPG

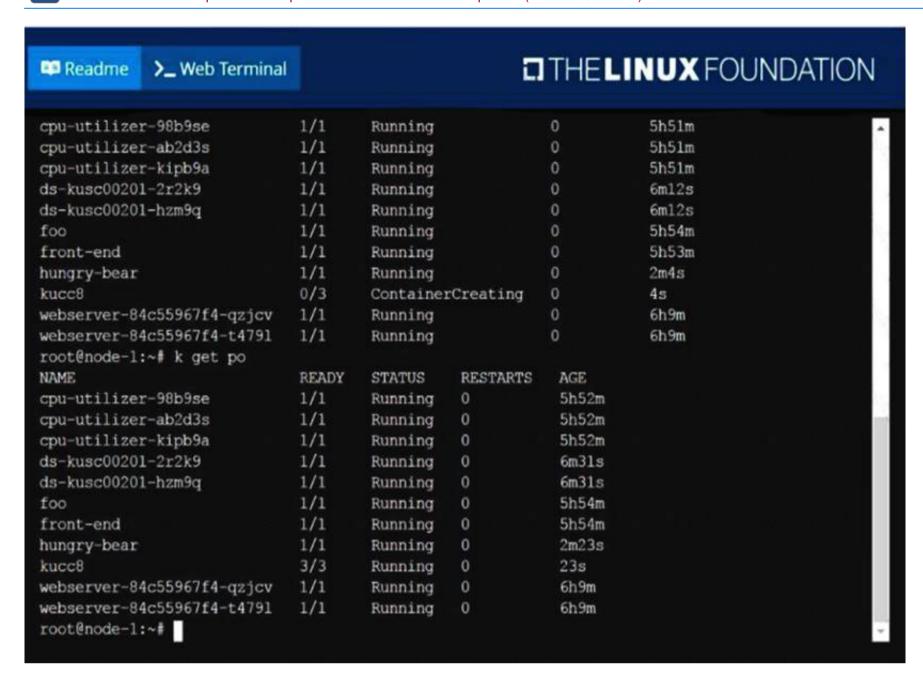




F:\Work\Data Entry Work\Data Entry\20200827\CKA\5 C.JPG



F:\Work\Data Entry Work\Data Entry\20200827\CKA\5 D.JPG



Check the Image version of nginx-dev pod using jsonpath

A. Mastered B. Not Mastered

Answer: A

Explanation:

kubect1 get po nginx-dev -o jsonpath='{.spec.containers[].image}{"\n"}'

NEW QUESTION 28

Print pod name and start time to "/opt/pod-status" file

A. Mastered

B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 33

Create a persistent volume with name app-data, of capacity 2Gi and access mode ReadWriteMany. The type of volume is hostPath and its location is /srv/app-data.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

solution

Persistent Volume

A persistent volume is a piece of storage in a Kubernetes cluster. PersistentVolumes are a cluster-level resource like nodes, which don't belong to any namespace. It is provisioned by the administrator and has a particular file size. This way, a developer deploying their app on Kubernetes need not know the underlying infrastructure. When the developer needs a certain amount of persistent storage for their application, the system administrator configures the cluster so that they consume the PersistentVolume provisioned in an easy way.

Creating Persistent Volume

kind: PersistentVolumeapiVersion: v1metadata: name:app-dataspec: capacity: # defines the capacity of PV we are creating storage: 2Gi #the amount of storage



we are tying to claim accessModes: # defines the rights of the volume we are creating - ReadWriteMany hostPath: path: "/srv/app-data" # path to which we are creating the volume

Challenge

Create a Persistent Volume named app-data, with access mode ReadWriteMany, storage classname

```
shared, 2Gi of storage capacity and the host path /srv/app-data.

apiVersion: v1
kind: PersistentVolume
metadata:
    name: app-data

spec:
    capacity:
    storage: 2Gi
    accessModes:
    - ReadWriteMany
hostPath:
    path: /srv/app-data
    storageClassName: share

"app-data.yaml" 12L, 194C
```

* 2. Save the file and create the persistent volume. Image for post

```
njerry191@cloudshell:~ (extreme-clone-265411)$ kubectl create -f pv.yaml persistentvolume/pv created
```

* 3. View the persistent volume.

```
njerry191@cloudshell:~ (extreme-clone-265411)$ kubectl get pv
                                   RECLAIM POLICY
                                                     STATUS
                                                                 CLAIM
                                                                          STORAGECLASS
       CAPACITY
                   ACCESS MODES
                                                                                          REASON
                                                                                                    AGE
                                                     Available
       2Gi
                   RWX
                                   Retain
                                                                                                    31s
                                                                          shared
app-data
```

Our persistent volume status is available meaning it is available and it has not been mounted yet. This status will change when we mount the persistentVolume to a persistentVolumeClaim.

PersistentVolumeClaim

In a real ecosystem, a system admin will create the PersistentVolume then a developer will create a PersistentVolumeClaim which will be referenced in a pod. A PersistentVolumeClaim is created by specifying the minimum size and the access mode they require from the persistentVolume.

Challenge

Create a Persistent Volume Claim that requests the Persistent Volume we had created above. The claim should request 2Gi. Ensure that the Persistent Volume Claim has the same storageClassName as the persistentVolume you had previously created.

kind: PersistentVolumeapiVersion: v1metadata: name:app-data spec:

accessModes: - ReadWriteMany resources:

requests: storage: 2Gi

storageClassName: shared

* 2. Save and create the pvc

njerry191@cloudshell:~ (extreme-clone-2654111)\$ kubect1 create -f app-data.yaml persistentvolumeclaim/app-data created

* 3. View the pvc Image for post

```
njerry191@cloudshell:~ (extreme-clone-265411)$ kubectl get pvc
NAME STATUS VOLUME CAPACITY ACCESS MODES STORAGECLASS
pv Bound pv 512m RWX shared
```

^{* 4.} Let's see what has changed in the pv we had initially created.

https://www.surepassexam.com/CKA-exam-dumps.html (67 New Questions)

Image for post

The state of the s	njerry	y191@clouds	nell: (extreme	-clone-265411)\$ ki	ibectl get	pv				
pv 512m RWX Retain Bound default/pv shared 16m	NAME	CAPACITY	ACCESS MODES	RECLAIM POLICY	STATUS	CLAIM	STORAGECL	ASS	REASON	AGE
	pγ	512m	RWX	Retain	Bound	default/pv	shared	16m		

Our status has now changed from available to bound.

* 5. Create a new pod named myapp with image nginx that will be used to Mount the Persistent Volume Claim with the path /var/app/config. Mounting a Claim

apiVersion: v1kind: Podmetadata: creationTimestamp: null name: app-dataspec: volumes: - name:congigpvc persistenVolumeClaim: claimName: app-data containers: - image: nginx name: app volumeMounts: - mountPath: "/srv/app-data " name: configpvc

NEW QUESTION 34

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

A. Mastered

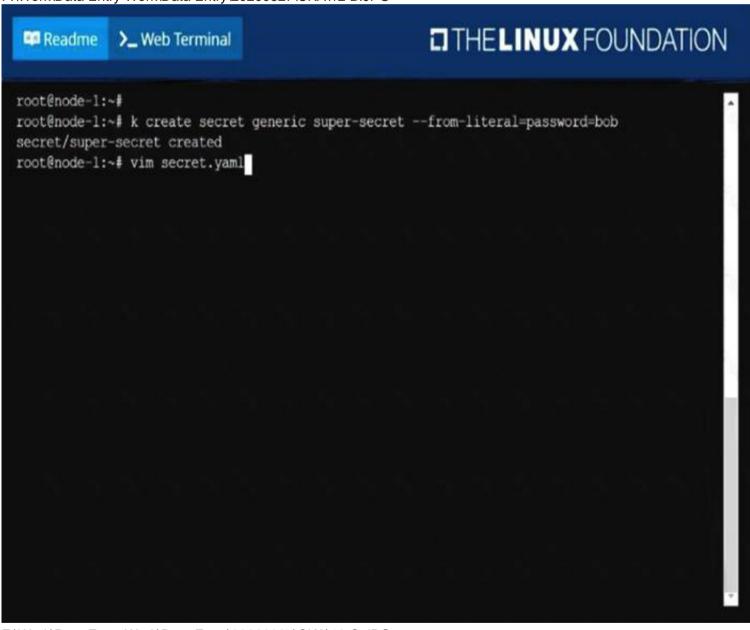
B. Not Mastered

Answer: A

Explanation:

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\12 B.JPG

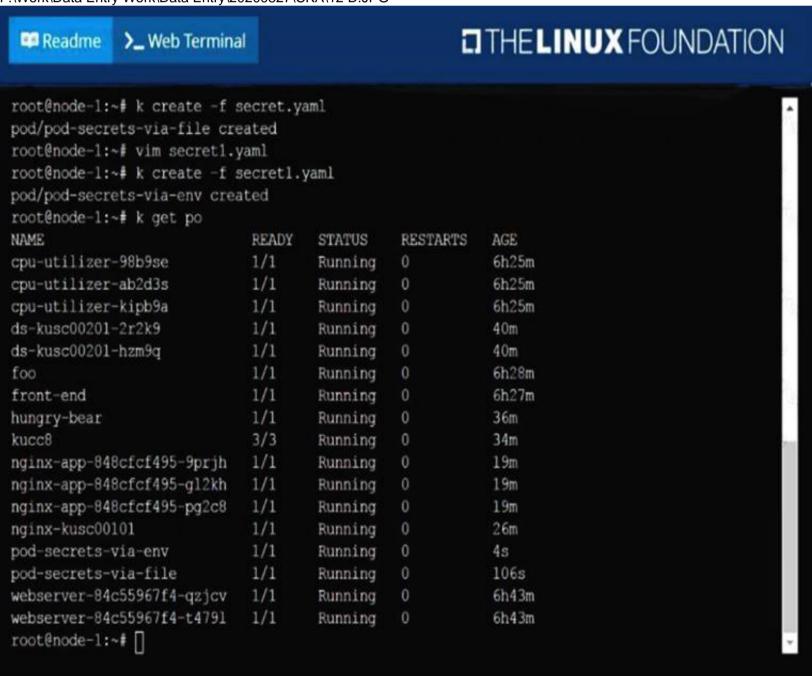


F:\Work\Data Entry Work\Data Entry\20200827\CKA\12 C.JPG



```
THE LINUX FOUNDATION
Readme
           >_ Web Terminal
apiVersion: vl
kind: Pod
 mame: pod-secrets-via-file
 - redis
   lange: redis
   - name: foo
 - name: foo
    secretName: super-secret
```

F:\Work\Data Entry Work\Data Entry\20200827\CKA\12 D.JPG



NEW QUESTION 38

Create a nginx pod with label env=test in engineering namespace

A. Mastered

B. Not Mastered





Answer: A

Explanation:

kubectl run nginx --image=nginx --restart=Never --labels=env=test --namespace=engineering --dry-run -o yaml > nginx-pod.yaml kubectl run nginx --image=nginx --restart=Never --labels=env=test --namespace=engineering --dry-run -o yaml | kubectl create -n engineering -f -YAML File: apiVersion: v1 kind: Pod metadata: name: nginx

namespace: engineering labels: env: test spec: containers: - name: nginx image: nginx

imagePullPolicy: IfNotPresent restartPolicy: Never

kubectl create -f nginx-pod.yaml

NEW QUESTION 41



Thank You for Trying Our Product

We offer two products:

1st - We have Practice Tests Software with Actual Exam Questions

2nd - Questons and Answers in PDF Format

CKA Practice Exam Features:

- * CKA Questions and Answers Updated Frequently
- * CKA Practice Questions Verified by Expert Senior Certified Staff
- * CKA Most Realistic Questions that Guarantee you a Pass on Your FirstTry
- * CKA Practice Test Questions in Multiple Choice Formats and Updatesfor 1 Year

100% Actual & Verified — Instant Download, Please Click Order The CKA Practice Test Here

Passing Certification Exams Made Easy