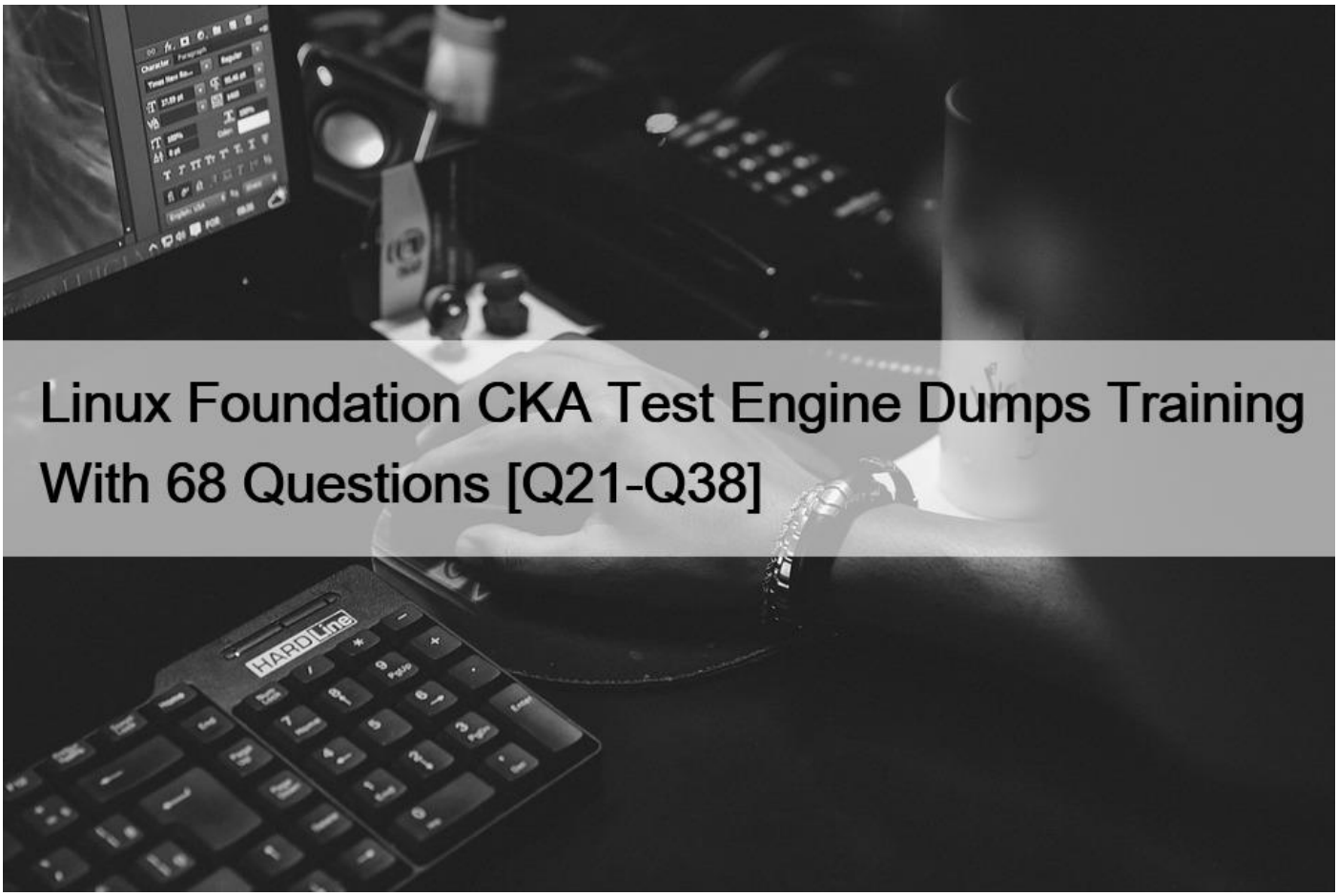
Linux Foundation CKA Test Engine Dumps Training With 68 Questions [Q21-Q38



Linux Foundation CKA Test Engine Dumps Training With 68 Questions
CKA Questions Pass on Your First Attempt Dumps for Kubernetes Administrator Certified

The CKA certification is valid for three years, and candidates can renew their certification by retaking the exam or by earning a higher-level certification. Certified Kubernetes Administrator (CKA) Program Exam certification is recognized by industry leaders, including AWS, Google Cloud, and Red Hat. Certified Kubernetes Administrator (CKA) Program Exam certification also provides access to a network of certified professionals and resources, including training, events, and community support. Overall, the CKA certification is an excellent way to demonstrate your expertise in Kubernetes and advance your career in the cloud-native ecosystem.

NO.21 List pod logs named “frontend” and search for the pattern “started” and write it to a file “/opt/error-logs”
See the solution below.

Explanation

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

NO.22 Score: 4%

Task

Schedule a pod as follows:

* Name: nginx-kusc00401

* Image: nginx

* Node selector: disk=ssd
Solution:

#yaml

apiVersion: v1

kind: Pod

metadata:

name: nginx-kusc00401

spec:

containers:

– name: nginx

image: nginx

imagePullPolicy: IfNotPresent

nodeSelector:

disk: spinning

#

kubectl create -f node-select.yaml

NO.23 Delete the pod without any delay (force delete)
Kubect1 delete po “POD-NAME” –grace-period=0 –force

NO.24 Create a snapshot of theetcdinstance running at , saving thesnapshot to the file path

/srv/data/etcd-snapshot.db.

The following TLScertificates/key are suppliedfor connecting to the server withetcdctl:

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

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

* Client key:Topt/KUCM00302/etcd-client.key
See the solution below.

Explanation

solution

NO.25 Change the Image version back to 1.17.1 for the pod you just updated and observe the changes
kubectl set image pod/nginx nginx=nginx:1.17.1 kubectl describe po nginx kubectl get po nginx -w # watch it

NO.26 Verify certificate expiry date for ca certificate in /etc/kubernetes/pki
openssl x509 -in ca.crt -noout -text | grep -i validity -A 4

NO.27 Create a namespace called ‘development’ and a pod with image nginx called nginx on this namespace.
kubectl create namespace development kubectl run nginx –image=nginx –restart=Never -n development

NO.28 Score:7%

Context

An existing Pod needs to be integrated into the Kubernetes built-in logging architecture (e. g. kubectl logs).

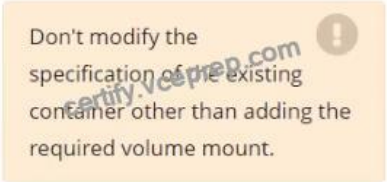
Adding a streaming sidecar container is a good and common way to accomplish this requirement.

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.



See the solution below.

Explanation

Solution:

#

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

NO.29 Which one is the correct configuration?
* #Panorama
* &Panorama
* $Panorama
* @Panorama

NO.30 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.
See the solution below.

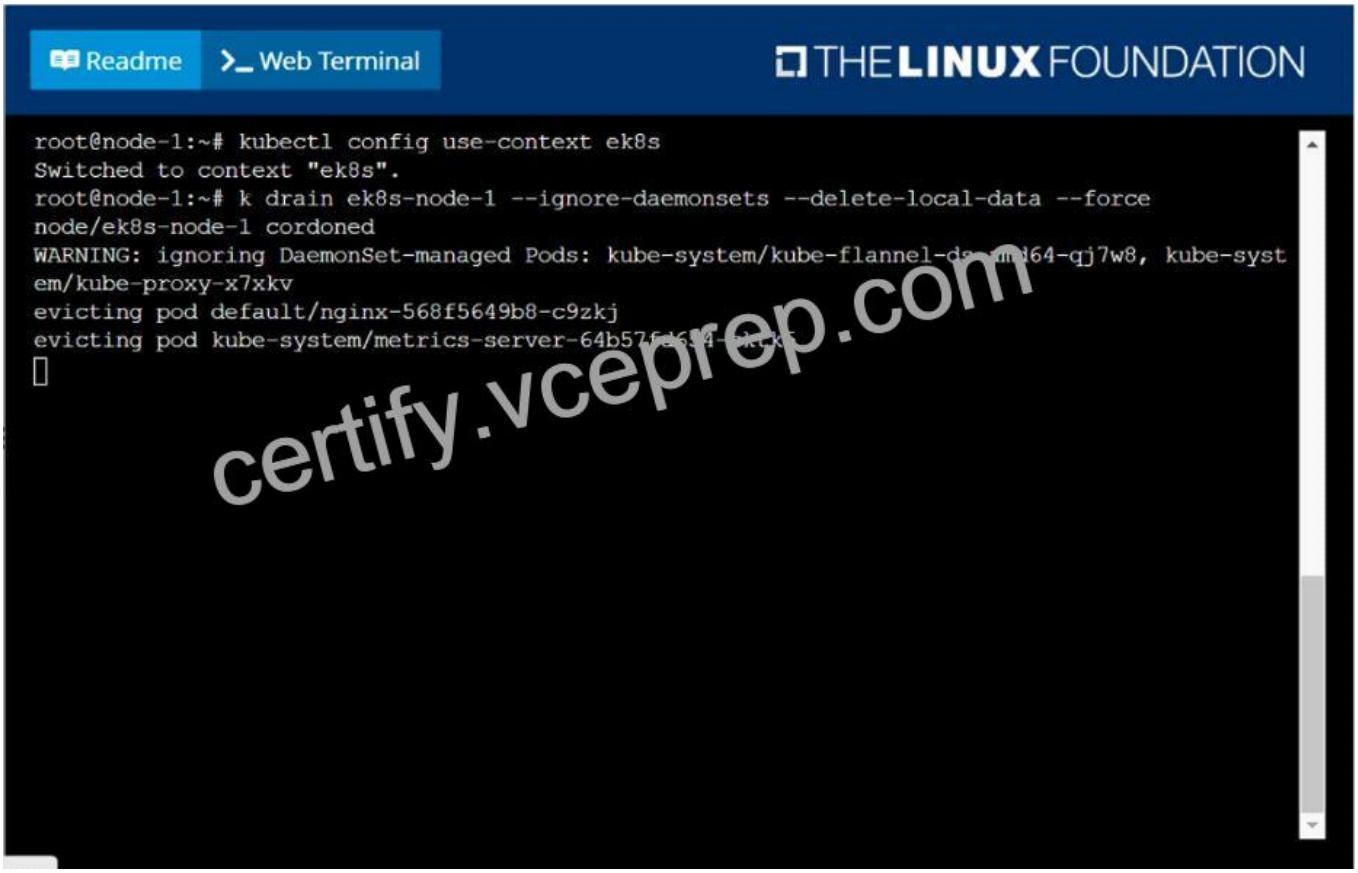
Explanation

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 has been configured so that you can install the required tools.

NO.31 Set the node named ek8s-node-1 as unavailable and reschedule all the pods running on it.
solution



NO.32 Check nodes which are ready and print it to a file /opt/nodestatus
* JSONPATH='{range .items[*]}{@.metadata.name}:{range

@.status.conditions[*]}{@.type}={@.status};{end}{end}’

&& kubectl get nodes -o jsonpath=”$JSONPATH” | grep

“Ready=True” > /opt/node-status

//Verify

cat /opt/node-status
* JSONPATH='{range .items[*]}{@.metadata.name}:{range

@.status.conditions[*]}{@.type}={@.status};{end}{end}’

//Verify

cat /opt/node-status

NO.33 Create an nginx pod and list the pod with different levels of verbosity
See the solution below.

Explanation

// create a pod

kubectl run nginx –image=nginx –restart=Never –port=80

// List the pod with different verbosity

kubectl get po nginx –v=7

kubectl get po nginx –v=8

kubectl get po nginx –v=9

NO.34 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.
See the solution below.

Explanation

solution

Readme | Web Terminal | THE LINUX FOUNDATION

```
root@node-1:~# vim ds.yaml
iroot@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
NAME           DESIRED   CURRENT   READY   UP-TO-DATE   AVAILABLE   NODE SELECTOR   AGE
ds-kusc00201   2         2         2       2            2           <none>          4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
root@node-1:~# k create -f /opt/KUCC00108/pod-spec-KUCC00108.yaml
pod/hungry-bear created
root@node-1:~# k get po
NAME                          READY   STATUS    RESTARTS   AGE
cpu-utilizer-99b9se           1/1     Running   0          5h50m
cpu-utilizer-b2m5c            1/1     Running   0          5h50m
cpu-utilizer-kipb9a           1/1     Running   0          5h50m
ds-kusc00201-2r2k9            1/1     Running   0          4m50s
ds-kusc00201-hzm9q            1/1     Running   0          4m50s
foo                           1/1     Running   0          5h52m
front-end                     1/1     Running   0          5h52m
hungry-bear                   1/1     Running   0          42s
webserver-84c55967f4-qzjcv    1/1     Running   0          6h7m
webserver-84c55967f4-t4791    1/1     Running   0          6h7m
root@node-1:~# k run nginx --image=nginx --dry-run=client -o yaml > nginx.yaml
root@node-1:~# vim nginx.yaml
```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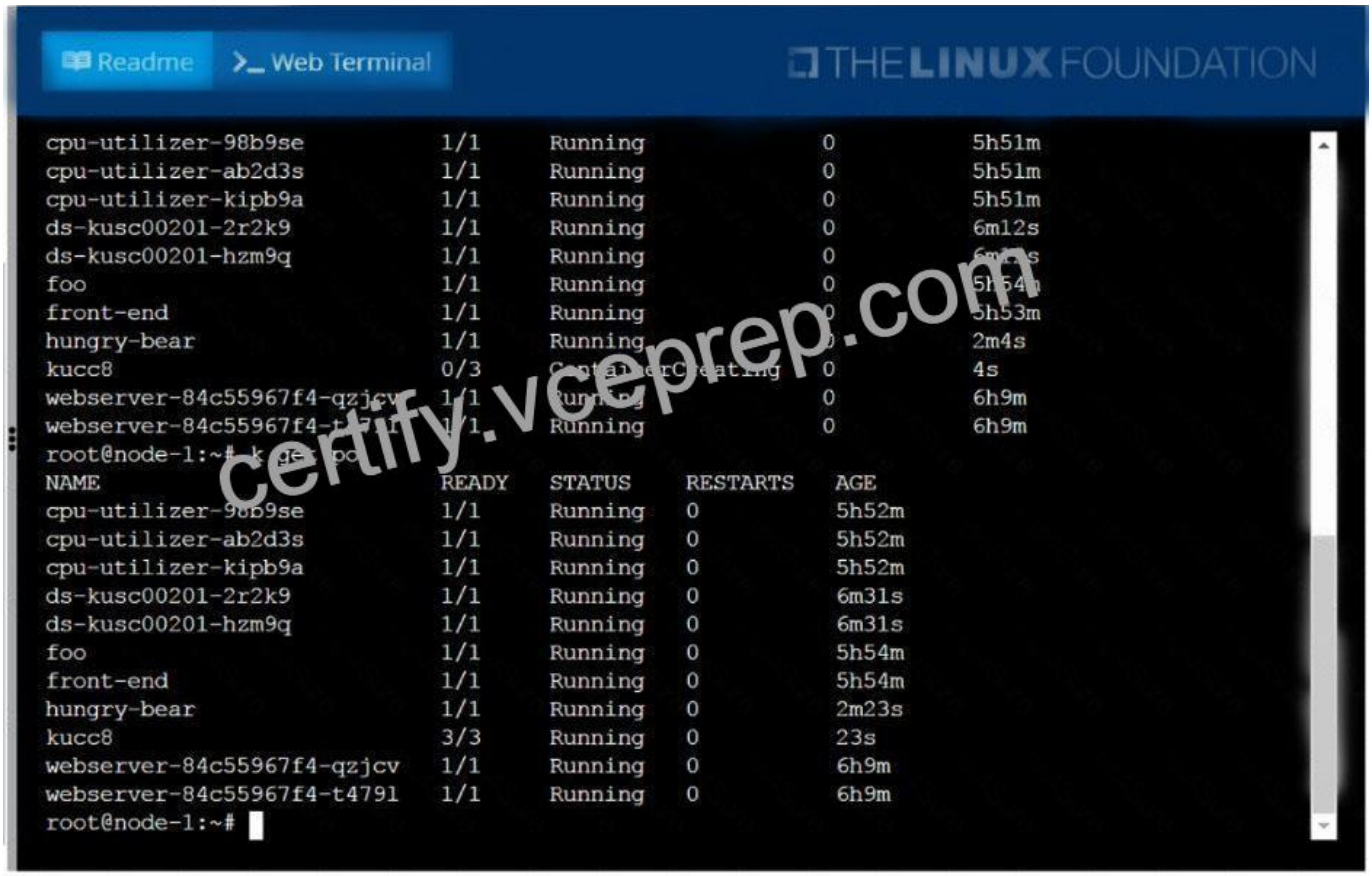
```
apiVersion: v1
kind: Pod
metadata:
  name: kucc8
spec:
  containers:
  - image: nginx
    name: nginx
  - image: redis
    name: redis
  - image: memcached
    name: memcached
~
~
~
~
~
~
~
~
~
~
~
~
:w
```



NO.35 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 thestagingnamespace and the volumemust notbe persistent.
See the solution below.

Explanation

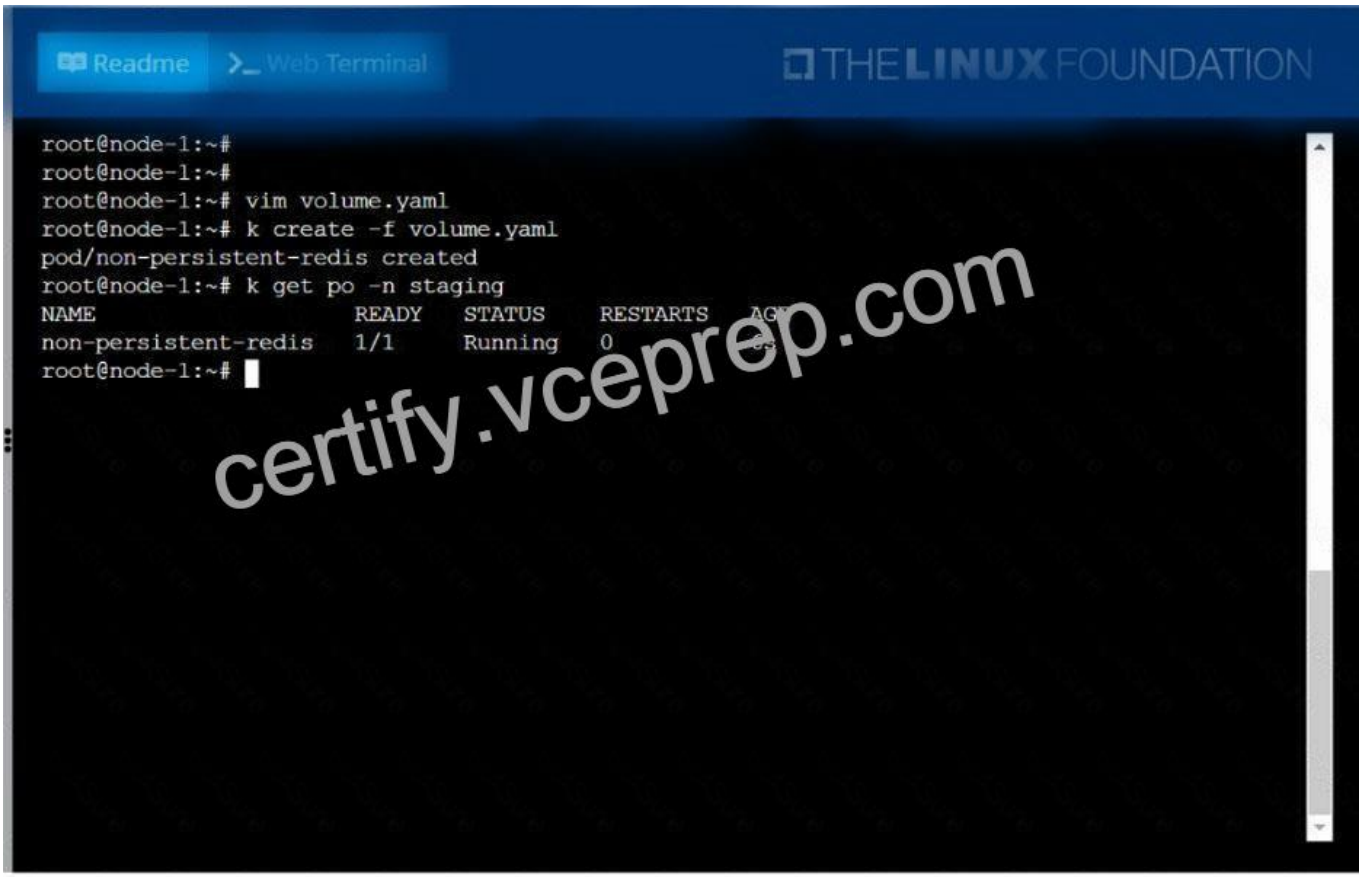
solution

Readme | Web Terminal

```
root@node-1:~#
root@node-1:~#
root@node-1:~# vim volume.yaml
```


Readme | Web Terminal

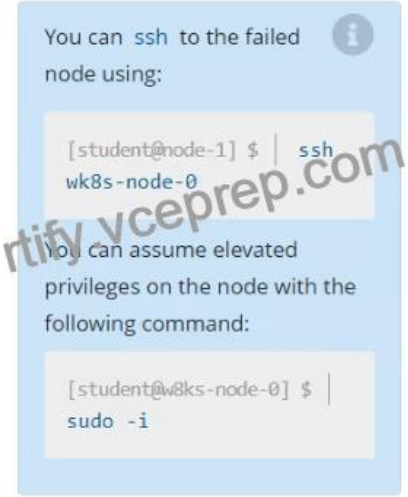
```
apiVersion: v1
kind: Pod
metadata:
  name: non-persistent-redis
  namespace: staging
spec:
  containers:
  - name: redis
    image: redis
    volumeMounts:
    - name: cache-control
      mountPath: /data/redis
  volumes:
  - name: cache-control
    emptyDir: {}
~
~
~
~
~
~
~
~
~
:w
```



NO.36 Score: 13%

Task

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.



See the solution below.

Explanation

Solution:

sudo -i

systemctl status kubelet

systemctl start kubelet

systemctl enable kubelet

NO.37 Create a pod that having 3 containers in it? (Multi-Container)
See the solution below.

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

NO.38 List the nginx pod with custom columns POD_NAME and POD_STATUS
See the solution below.

Explanation

kubectl get po -o=custom-columns=”POD_NAME:.metadata.name,

POD_STATUS:.status.containerStatuses[].state”

The CKA certification is recognized globally and is highly regarded by employers in the IT industry. Holding a CKA certification demonstrates an individual's ability to manage Kubernetes clusters effectively, which is a highly sought-after skill in today's job market. The CKA certification also provides individuals with access to a global community of certified professionals who can share knowledge and best practices in Kubernetes administration. The CKA exam is a valuable investment for individuals who want to enhance their career prospects and stay up-to-date with the latest technologies in the industry.

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