



Linux-Foundation

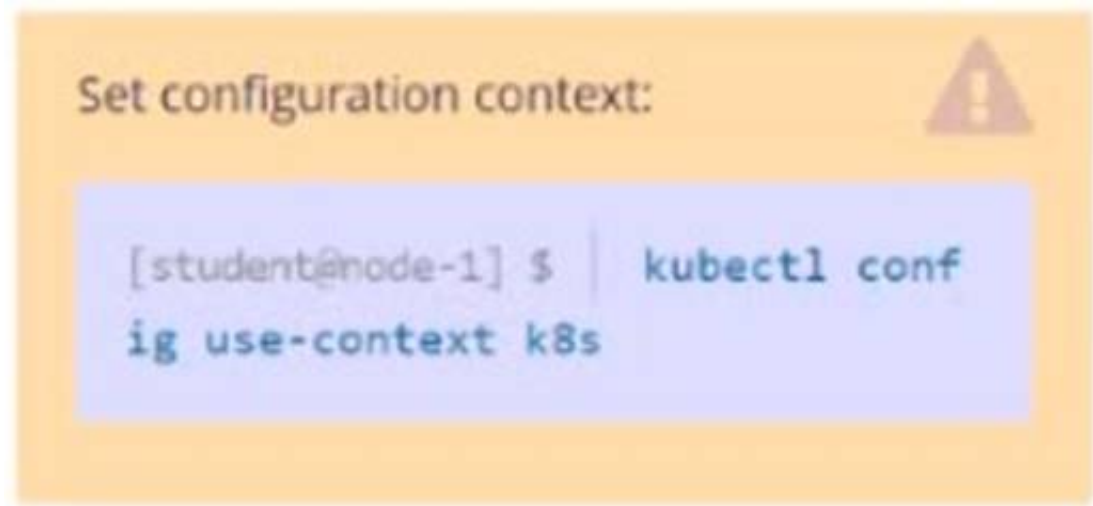
Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

NEW QUESTION 1

CORRECT TEXT

Task Weight: 4%



Task

Schedule a Pod as follows:

- Name: kucc1
- App Containers: 2
- Container Name/Images: o nginx
o consul

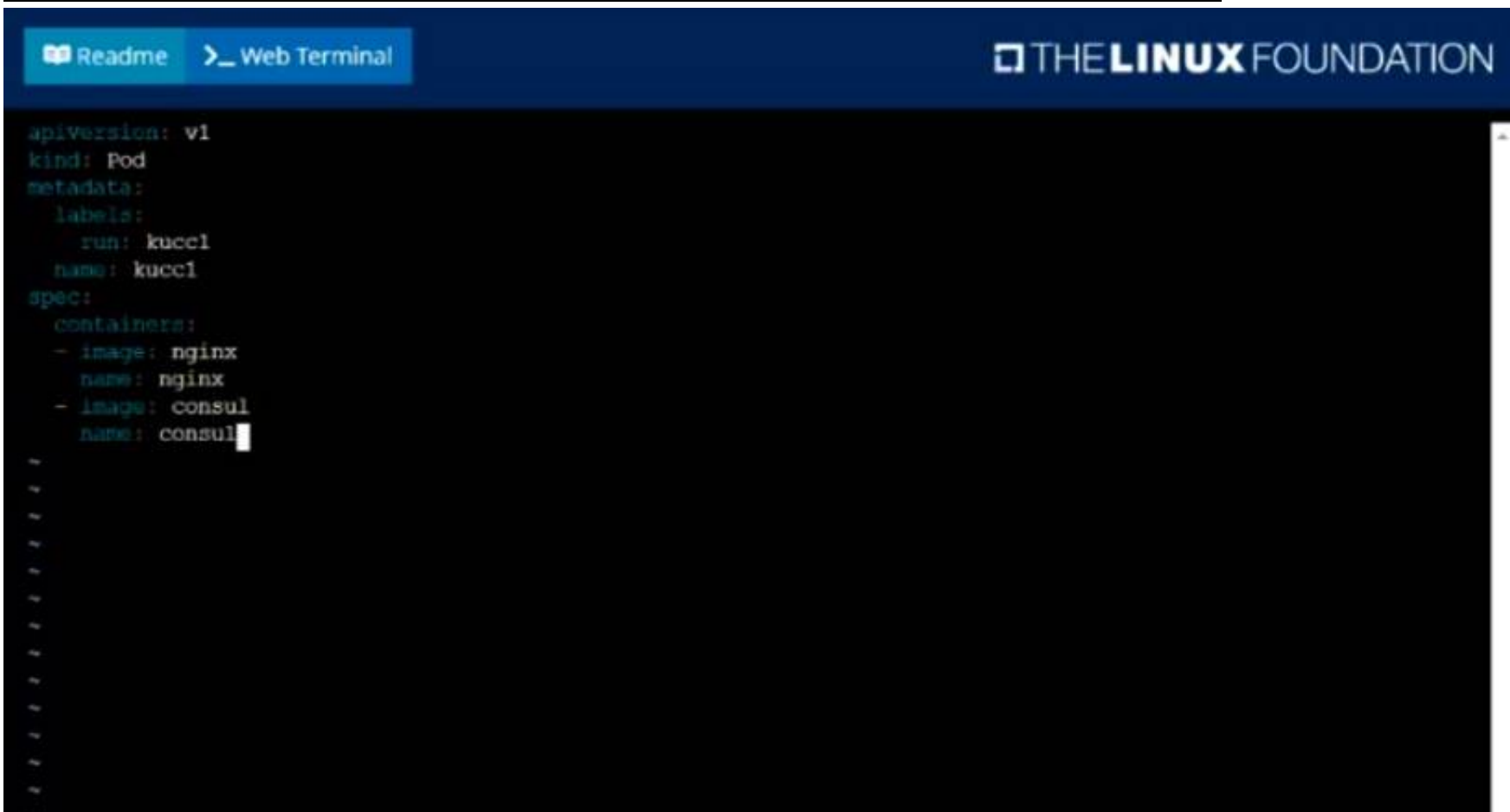
- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Solution:

```
student@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
student@node-1:~$ kubectl run kucc1 --image=nginx --dry-run=client -o yaml > aa.y
```



Graphical user interface, text, application
Description automatically generated

```
student@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
student@node-1:~$ kubectl run kucc1 --image=nginx --dry-run=client -o yaml > aa.yaml
student@node-1:~$ vim aa.yaml
student@node-1:~$ kubectl create -f aa.yaml
pod/kucc1 created
student@node-1:~$ kubectl get pods
NAME                                READY   STATUS              RESTARTS   AGE
ll-factor-app                       1/1     Running             0           6h34m
cpu-loader-98b9se                   1/1     Running             0           6h33m
cpu-loader-ab2d3s                   1/1     Running             0           6h33m
cpu-loader-kipb9a                   1/1     Running             0           6h33m
foobar                              1/1     Running             0           6h34m
front-end-6bc87b9748-24rcm          1/1     Running             0           5m4s
front-end-6bc87b9748-hd5wp          1/1     Running             0           5m2s
kucc1                               0/2     ContainerCreating   0           3s
nginx-kusc00401                     1/1     Running             0           2m28s
webserver-84c89dfd75-2d1jn          1/1     Running             0           6h38m
webserver-84c89dfd75-8d8x2          1/1     Running             0           6h38m
webserver-84c89dfd75-z5zz4          1/1     Running             0           3m51s
student@node-1:~$
```

Text Description automatically generated

NEW QUESTION 2

CORRECT TEXT

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 3

CORRECT TEXT

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 4

CORRECT TEXT

Score:7%



Task

Create a new PersistentVolumeClaim

- Name: pv-volume
- Class: csi-hostpath-sc
- Capacity: 10Mi

Create a new Pod which mounts the PersistentVolumeClaim as a volume:

- Name: web-server
- Image: nginx
- Mount path: /usr/share/nginx/html

Configure the new Pod to have ReadWriteOnce access on the volume.

Finally, using kubectl edit or kubectl patch expand the PersistentVolumeClaim to a capacity of 70Mi and record that change.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:
vi pvc.yaml
storageclass pvc
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
name: pv-volume
spec:
accessModes:
- ReadWriteOnce
volumeMode: Filesystem
resources:
requests:
storage: 10Mi
storageClassName: csi-hostpath-sc
vi pod-pvc.yaml
apiVersion: v1
kind: Pod
metadata:
name: web-server
spec:
containers:
- name: web-server
image: nginx
volumeMounts:
- mountPath: "/usr/share/nginx/html"
name: my-volume
volumes:
- name: my-volume
persistentVolumeClaim:
claimName: pv-volume
craete
kubectl create -f pod-pvc.yaml
#edit
kubectl edit pvc pv-volume --record

NEW QUESTION 5

CORRECT TEXT

Score: 4%



Task
Check to see how many nodes are ready (not including nodes tainted NoSchedule) and write the number to /opt/KUSC00402/kusc00402.txt.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:
kubectl describe nodes | grep ready|wc -l
kubectl describe nodes | grep -i taint | grep -i noschedule |wc -l
echo 3 > /opt/KUSC00402/kusc00402.txt

kubectl get node | grep -i ready |wc -l
taintsnoSchedule
kubectl describe nodes | grep -i taints | grep -i noschedule |wc -l

```
#
echo 2 > /opt/KUSC00402/kusc00402.txt
```

NEW QUESTION 6

CORRECT TEXT

Get IP address of the pod – “nginx-dev”

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Kubect1 get po -o wide

Using JsonPath

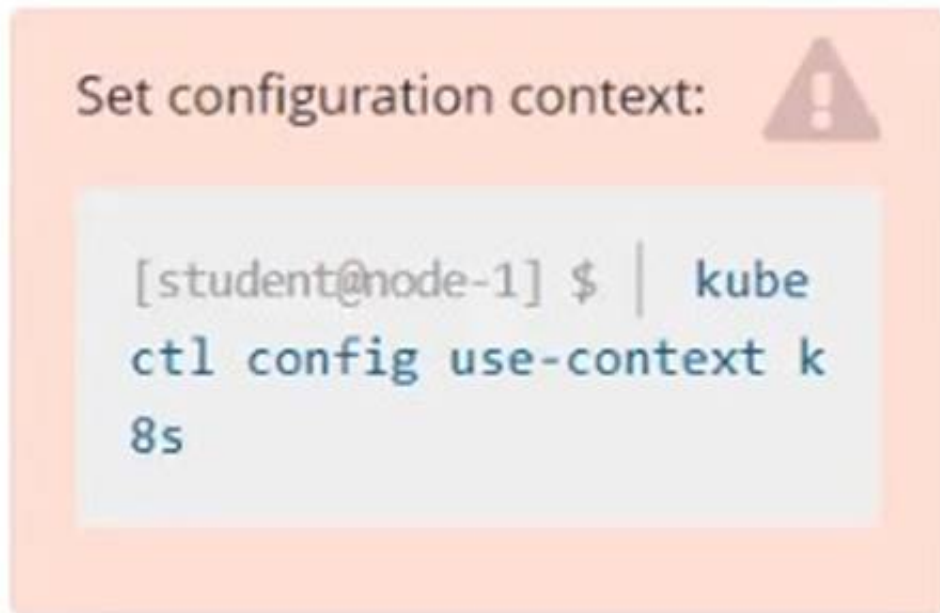
kubect1 get pods -o=jsonpath='{range

items[*]}{.metadata.name}{"\t"}{.status.podIP}{"\n"}}{end}'

NEW QUESTION 7

CORRECT TEXT

Score: 5%



Task

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/KUTR00401/KUTR00401.txt (which already exists).

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

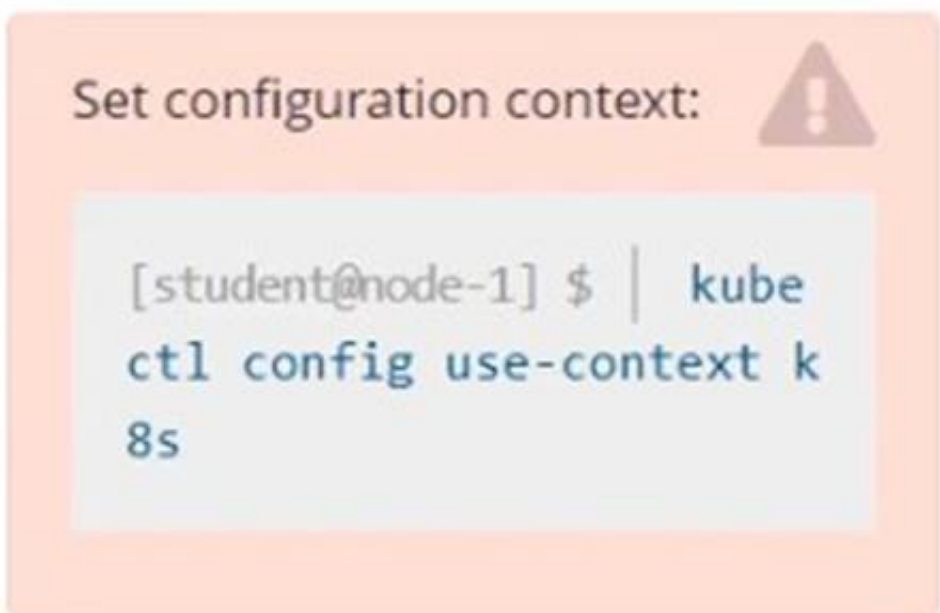
kubectl top -l name=cpu-user -A

echo 'pod name' >> /opt/KUT00401/KUT00401.txt

NEW QUESTION 8

CORRECT TEXT

Score: 4%



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:

- Deployment
- StatefulSet
- DaemonSet

Create a new ServiceAccount named cicd-token in the existing namespace app-team1. Bind the new ClusterRole deployment-clusterrole to the new ServiceAccount cicd-token , limited to the namespace app-team1.

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Solution:

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

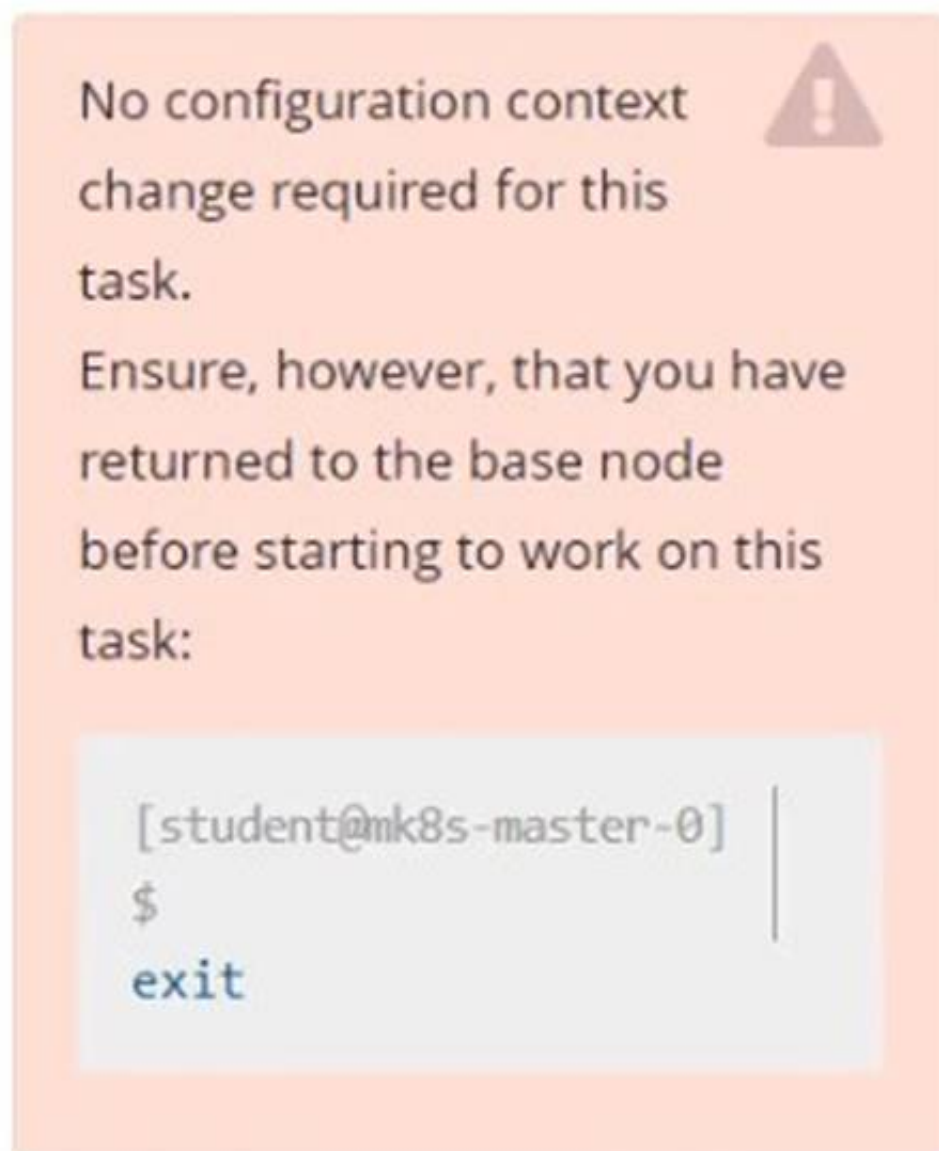
kubectl create serviceaccount cicd-token --namespace=app-team1

kubectl create rolebinding deployment-clusterrole --clusterrole=deployment-clusterrole -- serviceaccount=default:cicd-token --namespace=app-team1

NEW QUESTION 9

CORRECT TEXT

Score: 7%



Task

First, create a snapshot of the existing etcd instance running at <https://127.0.0.1:2379>, saving the snapshot to /srv/data/etcd-snapshot.db.

Creating a snapshot of the given instance is expected to complete in seconds. If the operation seems to hang, something's likely wrong with your command. Use **CTRL + C** to cancel the operation and try again.

Next, restore an existing, previous snapshot located at `/var/lib/backup/etcd-snapshot-previo us.db`

The following TLS certificates/key are supplied for connecting to the server with `etcdctl` :

- CA certificate:
`/opt/KUIN00601/ca.crt`
- Client certificate:
`/opt/KUIN00601/etcd-client.crt`
- Client key:
`/opt/KUIN00601/etcd-client.key`

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

`#backup`

`ETCDCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" --`

`cacert=/opt/KUIN000601/ca.crt --cert=/opt/KUIN000601/etcd-client.crt -- key=/opt/KUIN000601/etcd-client.key snapshot save /etc/data/etcd-snapshot.db`

`#restore`

`ETCDCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" --`

`cacert=/opt/KUIN000601/ca.crt --cert=/opt/KUIN000601/etcd-client.crt -- key=/opt/KUIN000601/etcd-client.key snapshot restore /var/lib/backup/etcd-snapshot-previoys.db`

NEW QUESTION 10

CORRECT TEXT

Check the image version in pod without the describe command

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 10

CORRECT TEXT

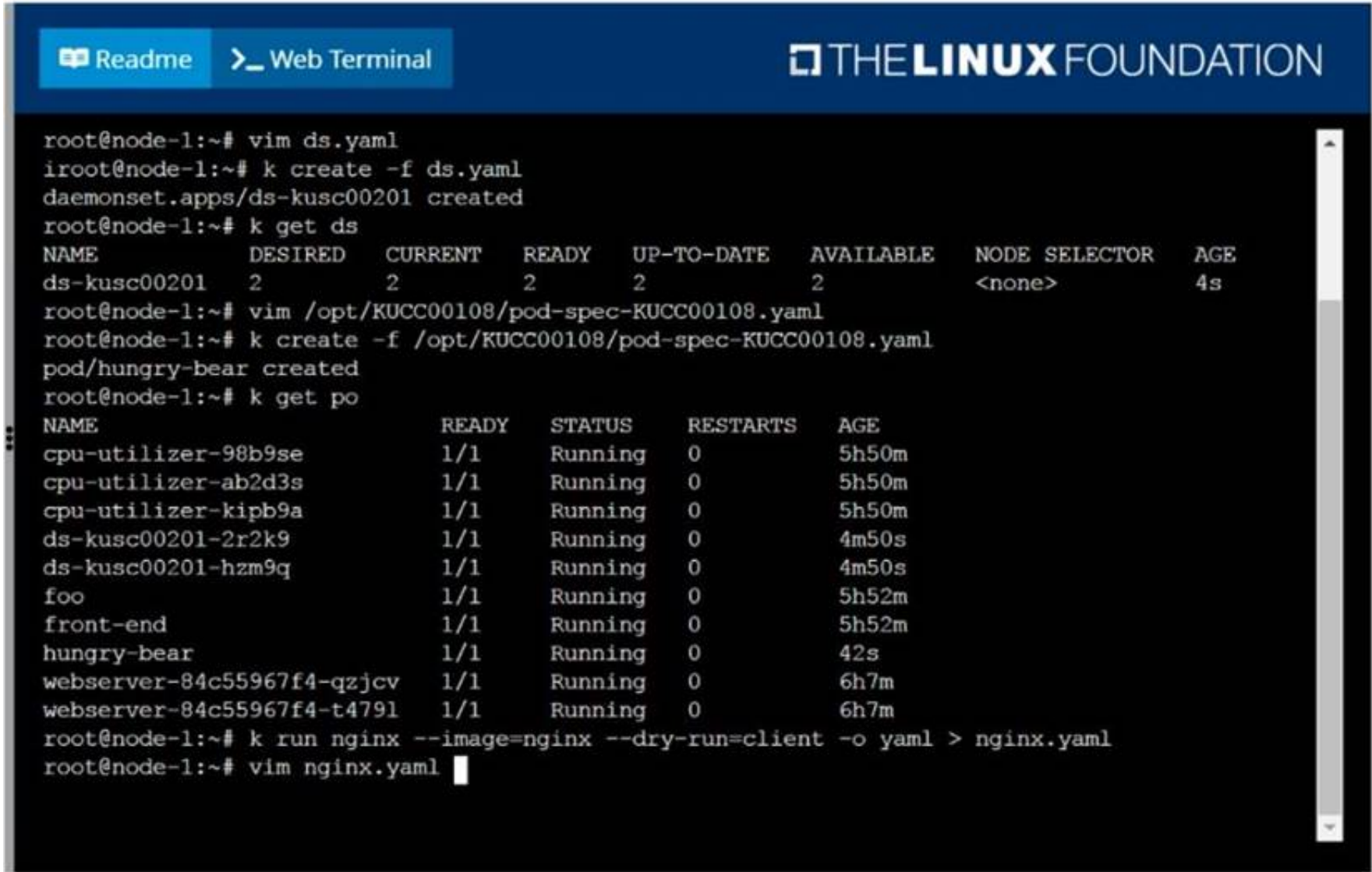
Create a pod named kucc8 with a single app container for each of the following images running inside (there may be between 1 and 4 images specified):
nginx + redis + memcached.

- A. Mastered
- B. Not Mastered

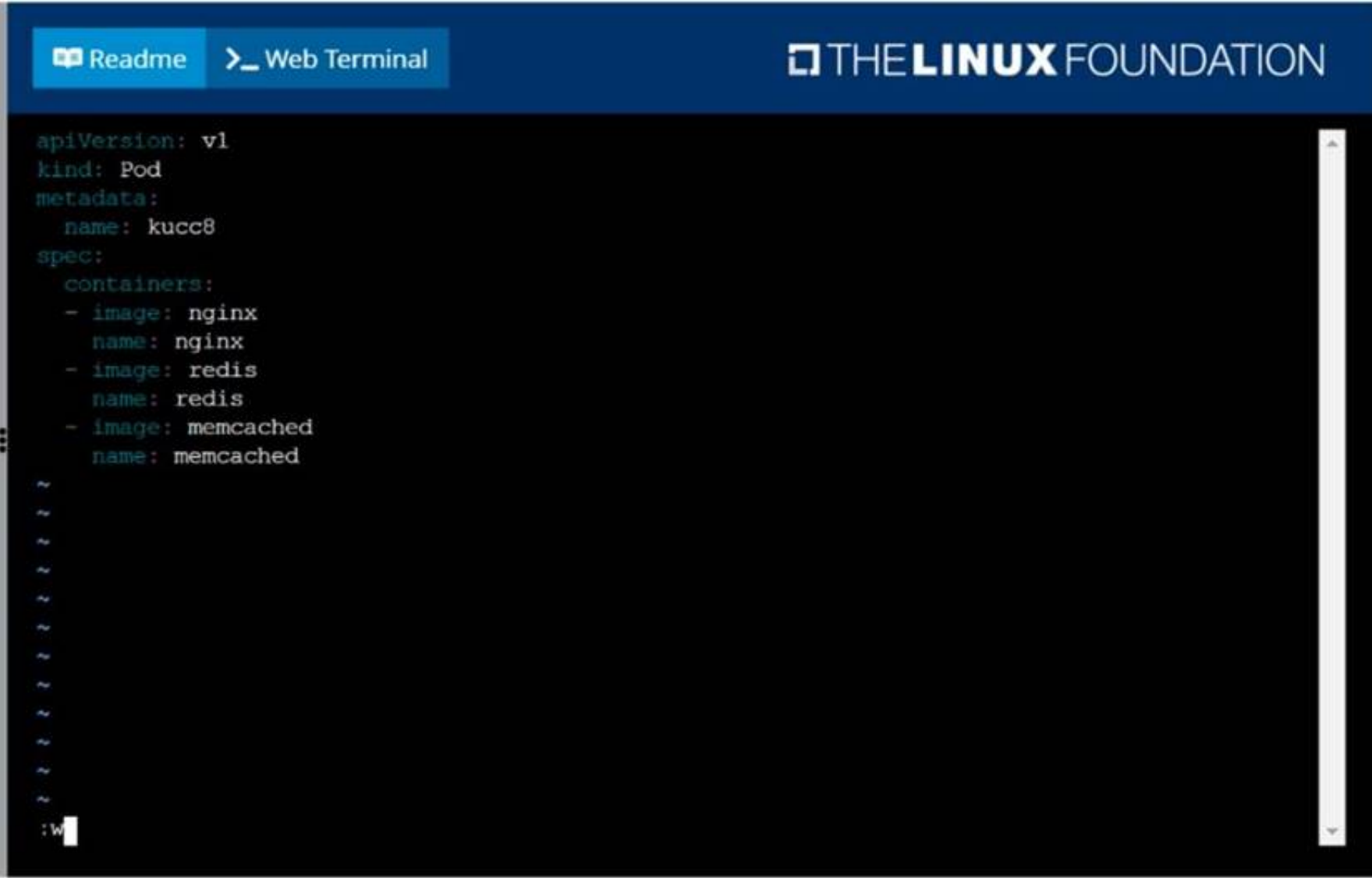
Answer: A

Explanation:

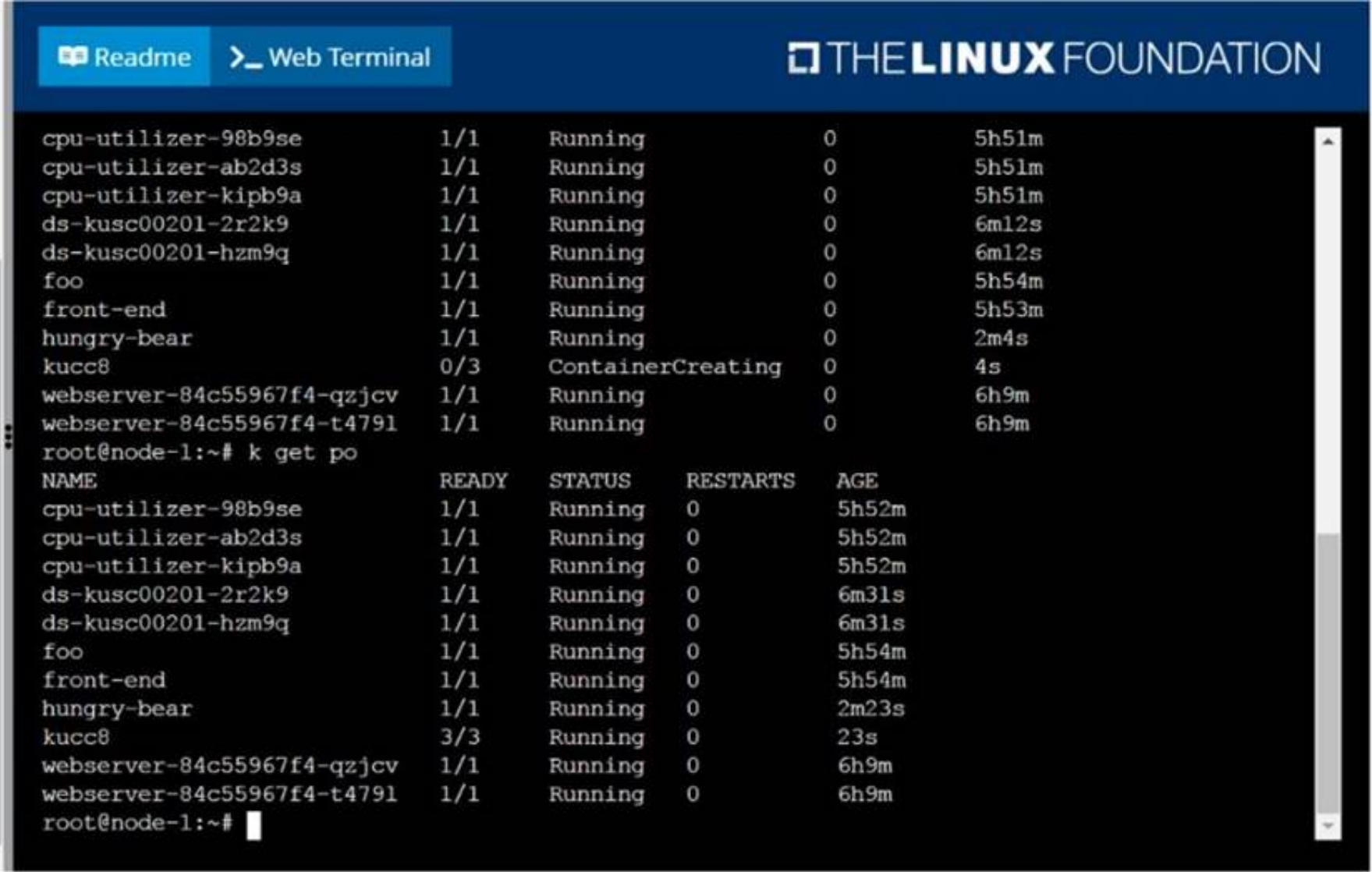
solution



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

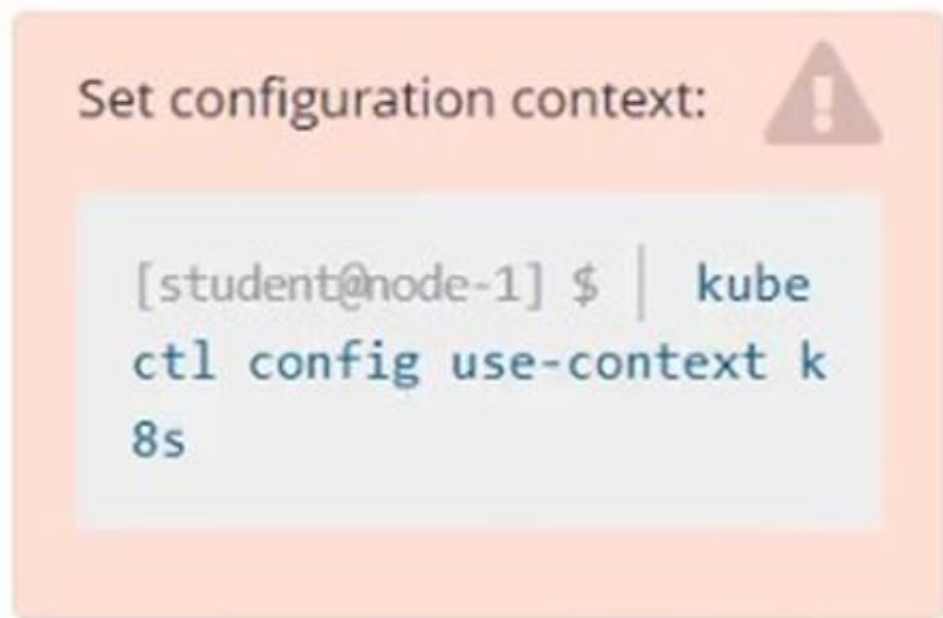


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NEW QUESTION 13
CORRECT TEXT
Score:7%



Context

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

- A. Mastered
- B. Not Mastered

Answer: A

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
```

NEW QUESTION 16

CORRECT TEXT

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 17

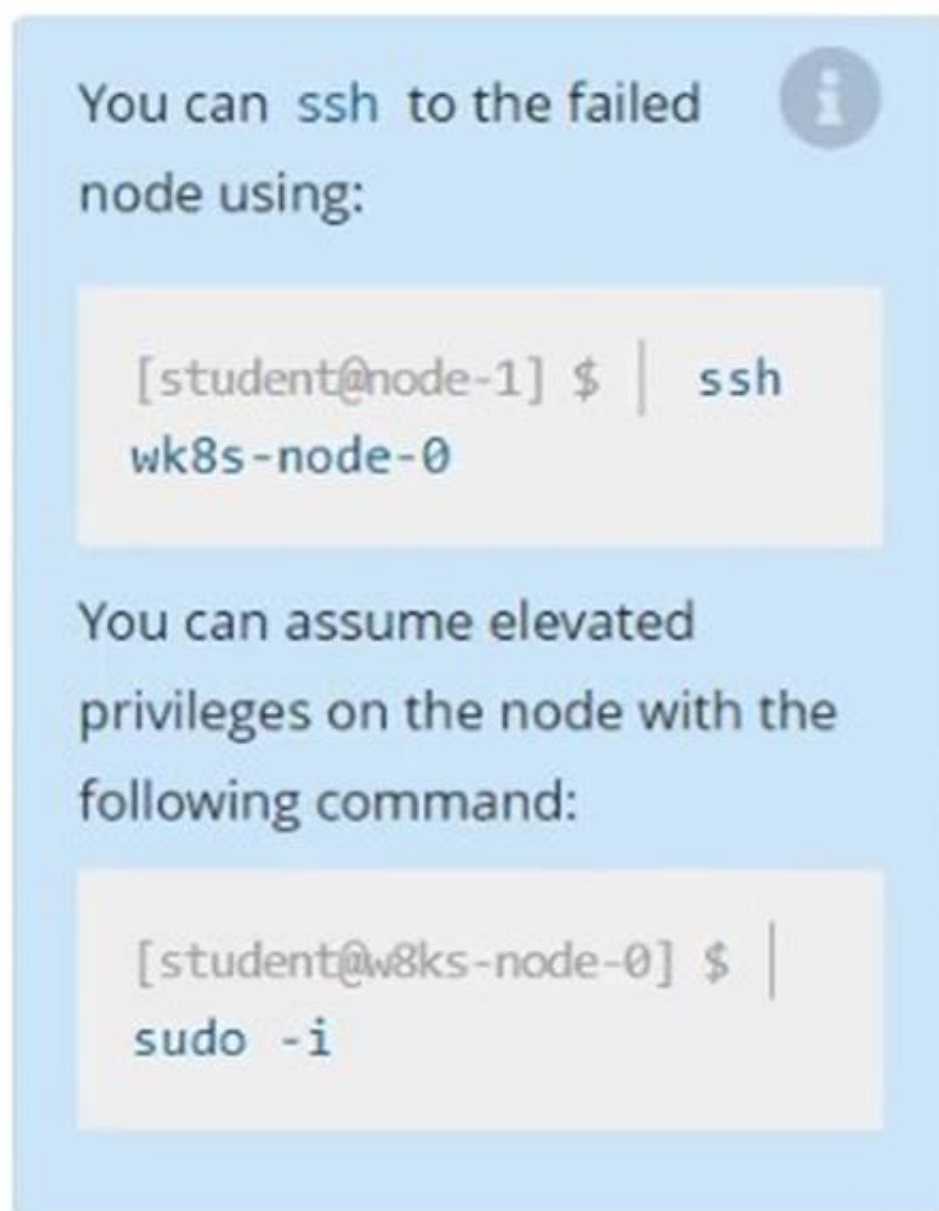
CORRECT TEXT

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.



- A. Mastered
- B. Not Mastered

Answer: A**Explanation:**

Solution:

```
sudo -i
systemctl status kubelet
systemctl start kubelet
systemctl enable kubelet
```

NEW QUESTION 20

CORRECT TEXT

Score: 4%

**Task**

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:

```
kubectl run kucc8 --image=nginx --dry-run -o yaml > kucc8.yaml
# vi kucc8.yaml
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  name: kucc8
spec:
  containers:
  - image: nginx
    name: nginx
  - image: redis
    name: redis
  - image: memcached
    name: memcached
  - image: consul
    name: consul
#
kubectl create -f kucc8.yaml
#12.07
```

NEW QUESTION 22

CORRECT TEXT

Create a busybox pod and add "sleep 3600" command

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 24

CORRECT TEXT

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 26

CORRECT TEXT

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 31

CORRECT TEXT

Create 2 nginx image pods in which one of them is labelled with env=prod and another one labelled with env=dev and verify the same.

- A. Mastered
- B. Not Mastered

Answer: A**Explanation:**

```
kubectl run --generator=run-pod/v1 --image=nginx -- labels=env=prod nginx-prod --dry-run
-o yaml > nginx-prodpod.yaml Now, edit nginx-prod-pod.yaml file and remove entries like "creationTimestamp: null" "dnsPolicy: ClusterFirst"
vim nginx-prod-pod.yaml
apiVersion: v1
kind: Pod
metadata:
```



```
labels:
env: prod
name: nginx-prod
spec:
containers:
- image: nginx
name: nginx-prod
restartPolicy: Always
# kubectl create -f nginx-prod-pod.yaml
kubectl run --generator=run-pod/v1 --image=nginx --
labels=env=dev nginx-dev --dry-run -o yaml > nginx-dev-pod.yaml
apiVersion: v1
kind: Pod
metadata:
labels:
env: dev
name: nginx-dev
spec:
containers:
- image: nginx
name: nginx-dev
restartPolicy: Always
# kubectl create -f nginx-prod-dev.yaml
Verify :
kubectl get po --show-labels
kubectl get po -l env=prod
kubectl get po -l env=dev
```

NEW QUESTION 32

CORRECT TEXT

Score: 4%



Task

Set the node named ek8s-node-1 as unavailable and reschedule all the pods running on it.

- A. Mastered
- B. Not Mastered

Answer: A**Explanation:**

SOLUTION:

```
[student@node-1] > ssh ek8s
kubectl cordon ek8s-node-1
kubectl drain ek8s-node-1 --delete-local-data --ignore-daemonsets --force
```

NEW QUESTION 36

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