

# Linux-Foundation

## Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program



### NEW QUESTION 1

CORRECT TEXT

Create a pod with image nginx called nginx and allow traffic on port 80

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

kubectrl run nginx --image=nginx --restart=Never --port=80

### NEW QUESTION 2

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 kubectrl edit or kubectrl 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 3

CORRECT TEXT

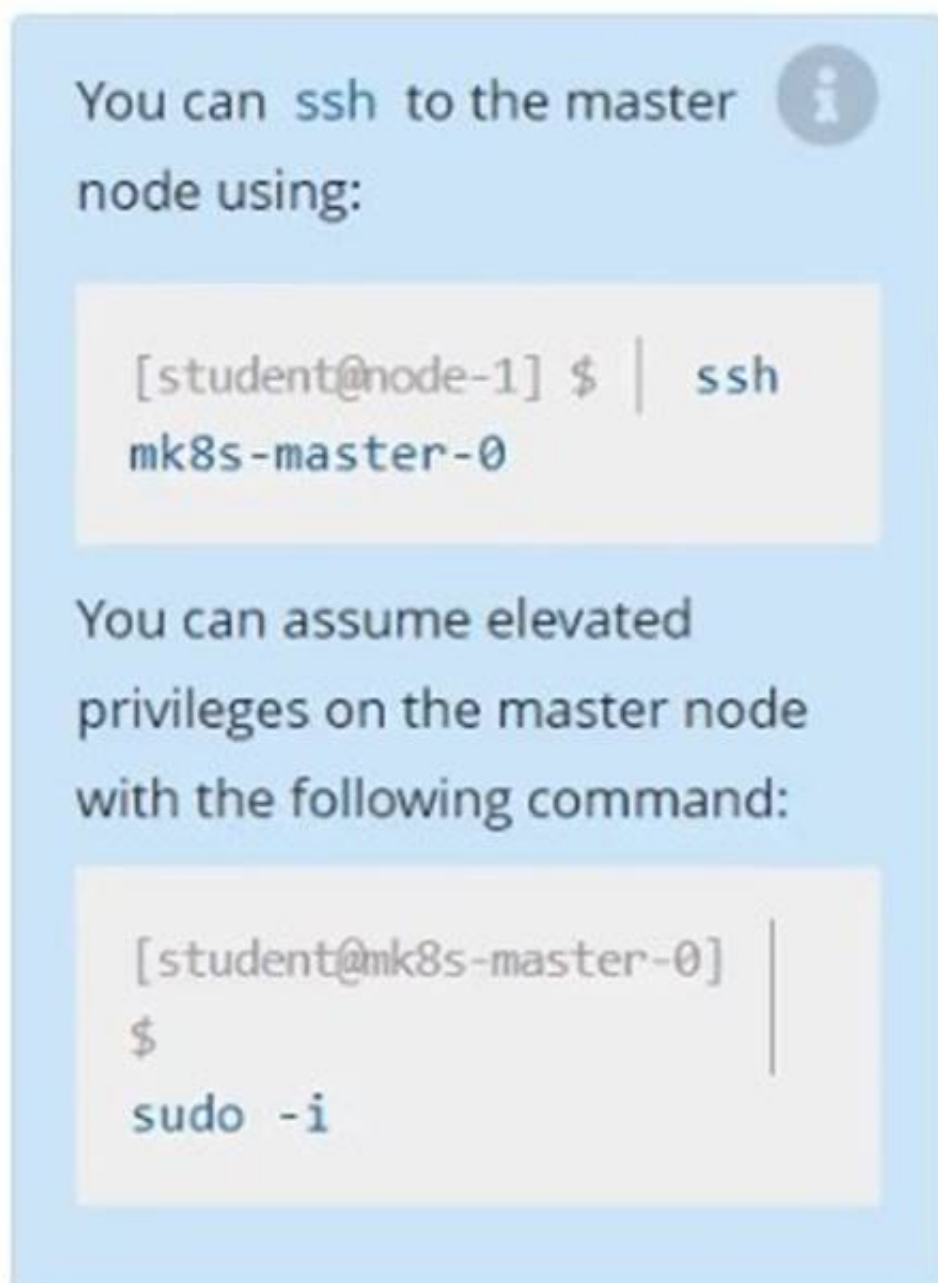
Score: 7%



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.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

SOLUTION:

```
[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 kubernetes=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
```

**NEW QUESTION 4**

CORRECT TEXT

Score: 5%

Set configuration context:

```
[student@node-1] $ | kube
ctl config use-context k
8s
```

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 5**

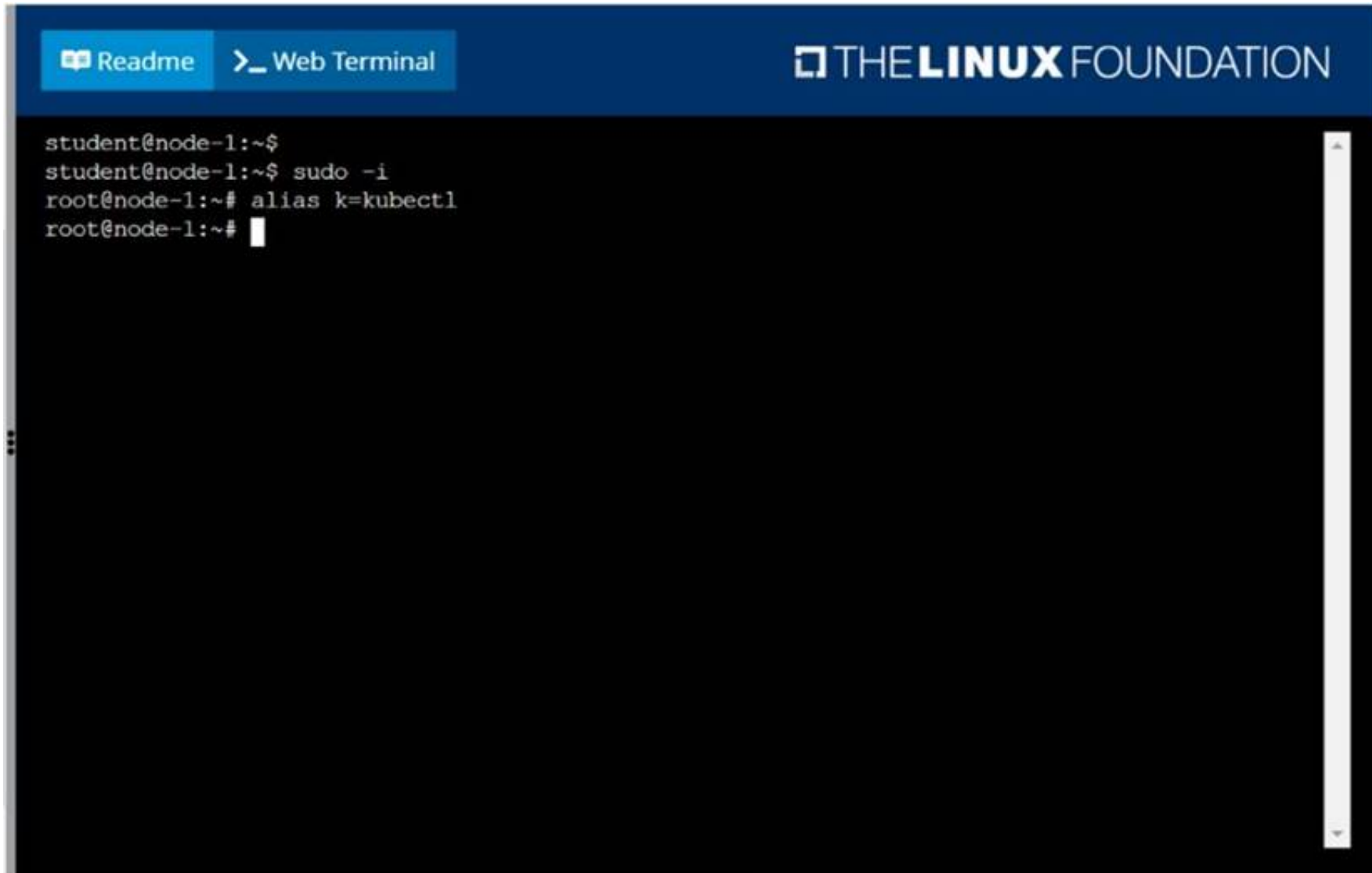
CORRECT TEXT

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

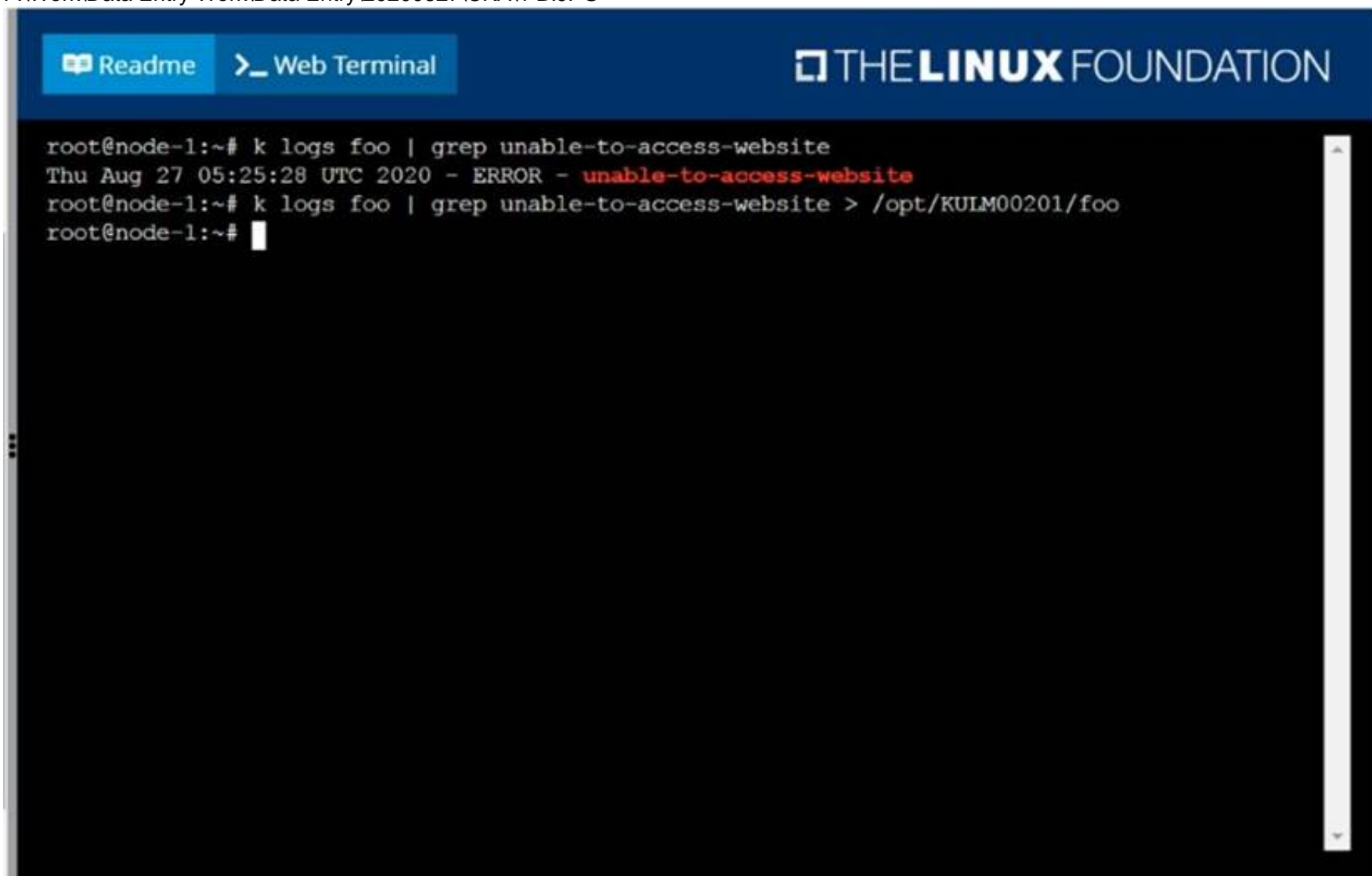
**Explanation:**  
 solution



The screenshot shows a web terminal interface with a blue header bar containing "THE LINUX FOUNDATION" logo and navigation tabs for "Readme" and "Web Terminal". The terminal window displays the following commands and output:

```
student@node-1:~$
student@node-1:~$ sudo -i
root@node-1:~# alias k=kubectl
root@node-1:~#
```

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The screenshot shows a web terminal interface with a blue header bar containing "THE LINUX FOUNDATION" logo and navigation tabs for "Readme" and "Web Terminal". The terminal window displays the following commands and output:

```
root@node-1:~# k logs foo | grep unable-to-access-website
Thu Aug 27 05:25:28 UTC 2020 - ERROR - unable-to-access-website
root@node-1:~# k logs foo | grep unable-to-access-website > /opt/KULM00201/foo
root@node-1:~#
```

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**NEW QUESTION 6**  
 CORRECT TEXT  
 Score: 7%



Task

Create a new nginx Ingress resource as follows:

- Name: ping
- Namespace: ing-internal
- Exposing service hi on path /hi using service port 5678



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution:

vi ingress.yaml

#

apiVersion: networking.k8s.io/v1

kind: Ingress

metadata:

name: ping

namespace: ing-internal

spec:

rules:

- http:

paths:

- path: /hi

pathType: Prefix

backend:

service:

name: hi

port:

number: 5678

#

kubectl create -f ingress.yaml

**NEW QUESTION 7**

CORRECT TEXT



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 8

CORRECT TEXT

Create a snapshot of the etcd instance running at <https://127.0.0.1:2379>, saving the snapshot to the file path /srv/data/etcd-snapshot.db.

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

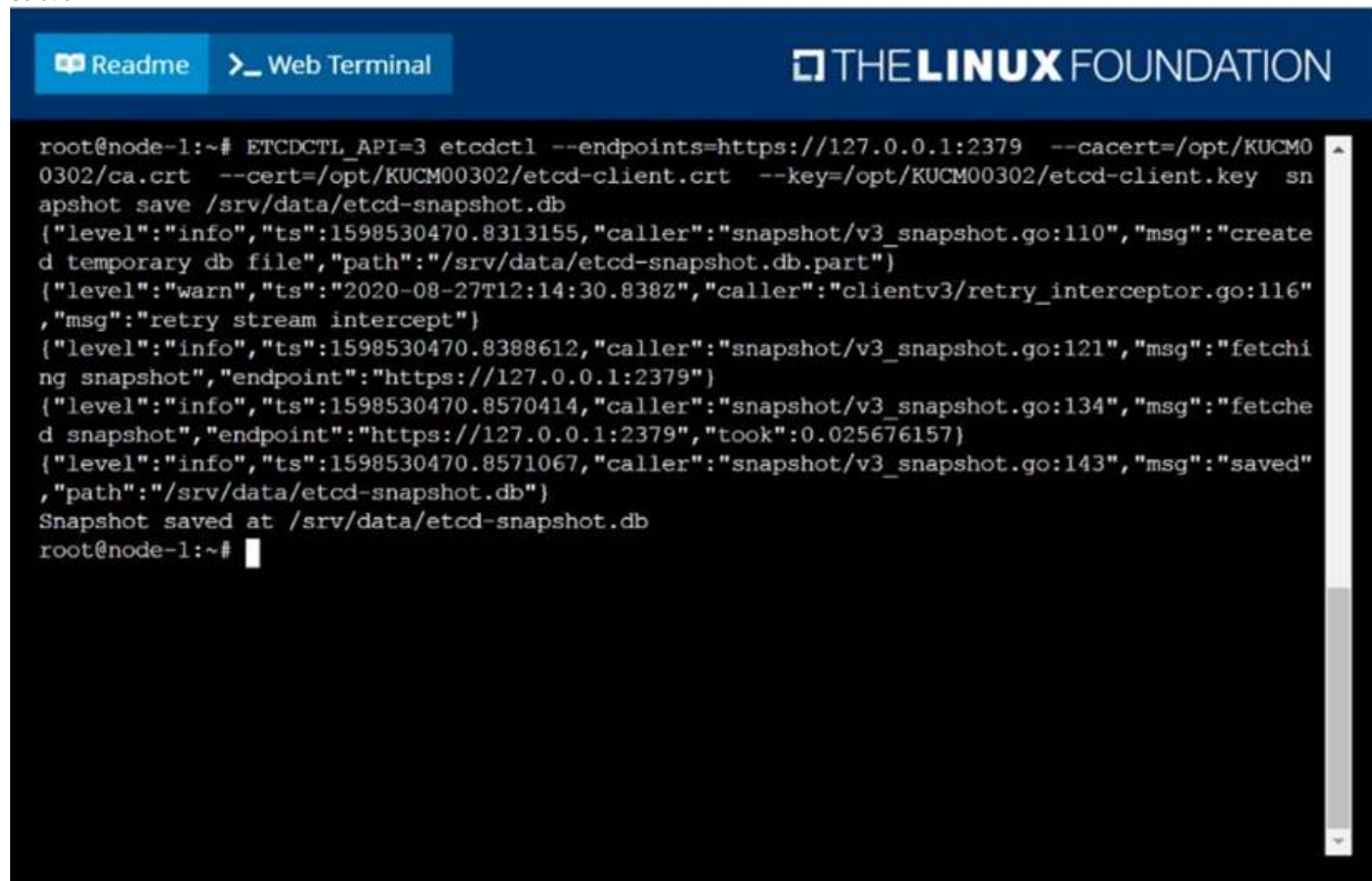
- ? CA certificate: /opt/KUCM00302/ca.crt
- ? Client certificate: /opt/KUCM00302/etcd-client.crt
- ? Client key: Topt/KUCM00302/etcd-client.key

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution



The screenshot shows a web terminal interface with a blue header bar containing 'Readme' and 'Web Terminal' buttons, and 'THE LINUX FOUNDATION' logo. The terminal output shows the execution of the command: `ETCDCTL_API=3 etcdctl --endpoints=https://127.0.0.1:2379 --cacert=/opt/KUCM00302/ca.crt --cert=/opt/KUCM00302/etcd-client.crt --key=/opt/KUCM00302/etcd-client.key snapshot save /srv/data/etcd-snapshot.db`. The output includes several JSON log entries indicating the creation of a temporary db file, a warning about a retry stream intercept, the fetching of the snapshot from the endpoint, and the successful saving of the snapshot to the specified path. The final message is 'Snapshot saved at /srv/data/etcd-snapshot.db'.

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#### NEW QUESTION 9

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
  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 10

CORRECT TEXT

Create an nginx pod and list the pod with different levels of verbosity

- A. Mastered
- B. Not Mastered

**Answer:** A

**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
```

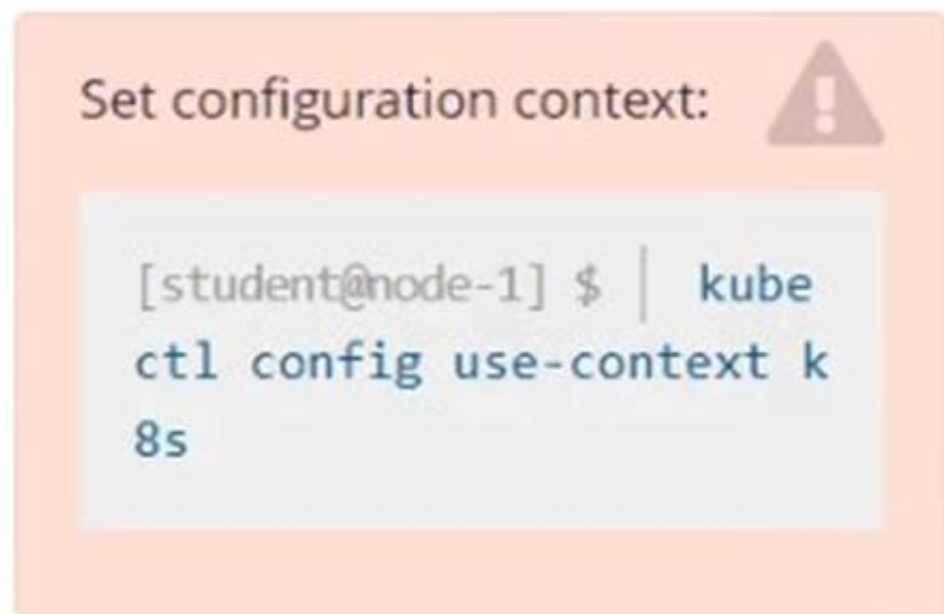




### NEW QUESTION 13

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 16

CORRECT TEXT

List the nginx pod with custom columns POD\_NAME and POD\_STATUS

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

### NEW QUESTION 19

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 21

CORRECT TEXT

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

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

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

### NEW QUESTION 25

CORRECT TEXT

List all the pods sorted by created timestamp

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

```
kubect1 get pods--sort-by=.metadata.creationTimestamp
```

### NEW QUESTION 30

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

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