# Linux-Foundation

## Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

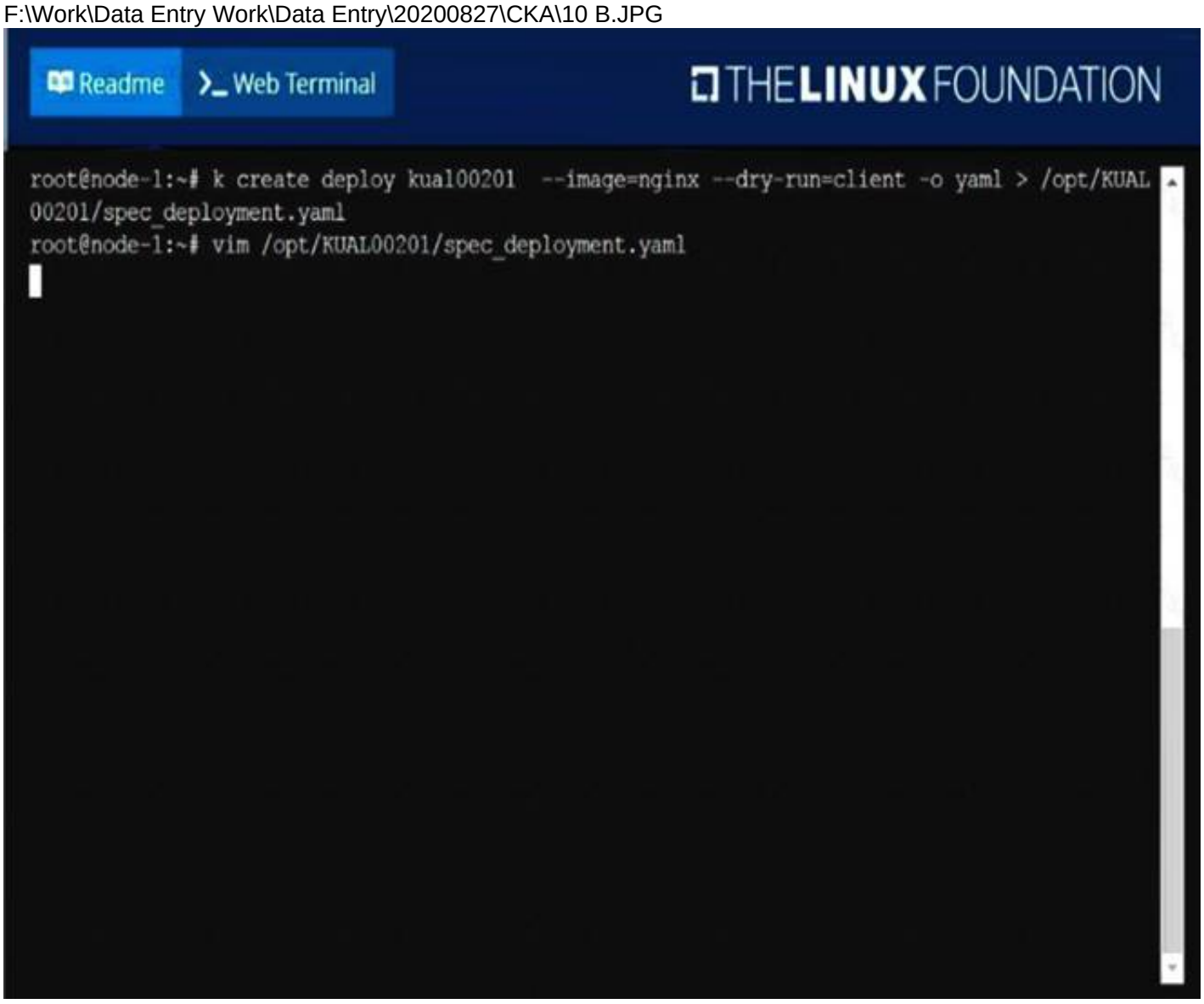
**NEW QUESTION 1**
Create a deployment spec file thatwill:
- Launch 7 replicas of thenginxImage with the labelapp_runtime_stage=dev
- deployment name:kual00201

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 thatyou 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

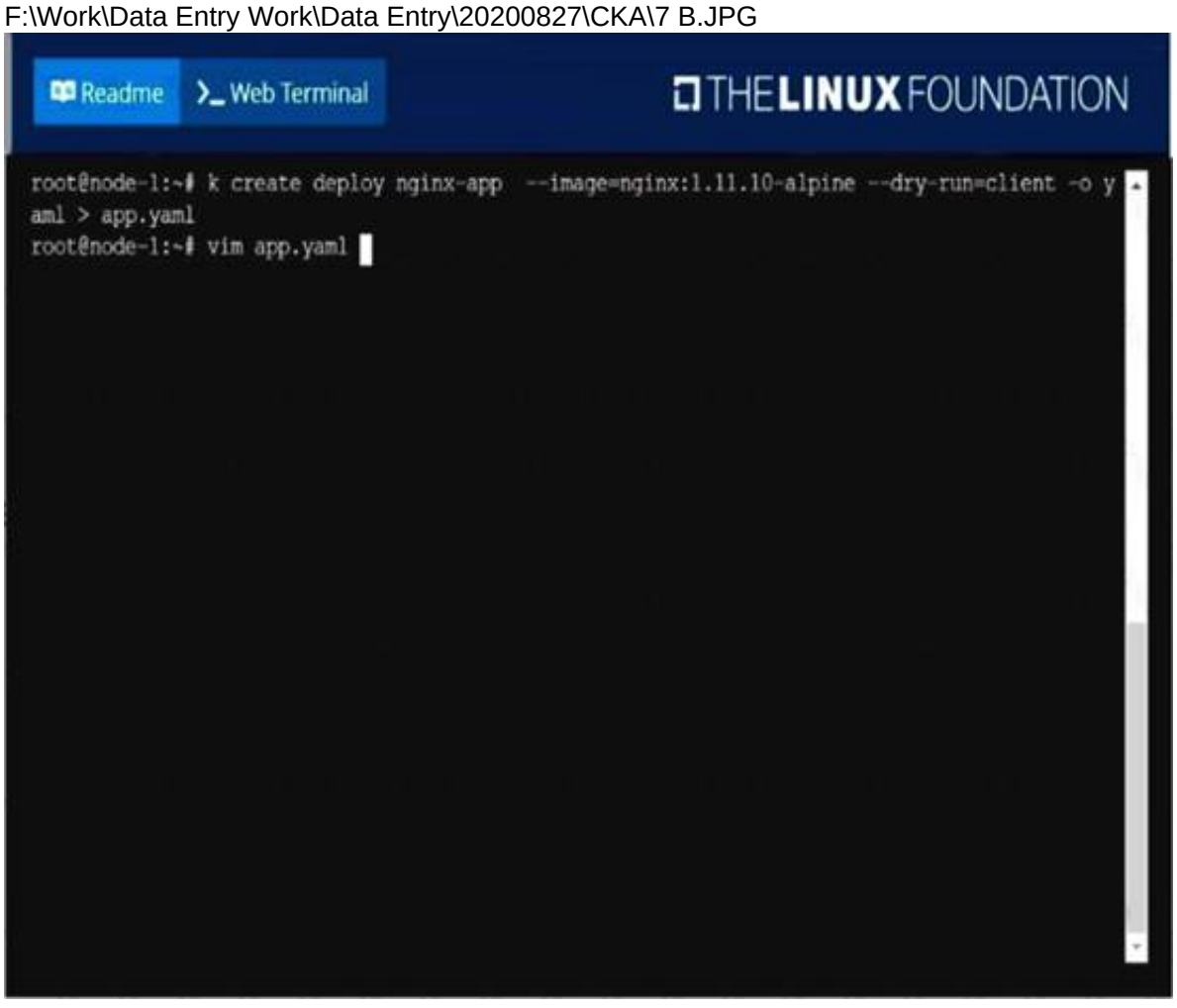

**NEW QUESTION 2**
Create a deployment as follows:
- Name:nginx-app
- Using containernginxwithversion 1.11.10-alpine
- The deployment should contain3replicas

Next, deploy the application with newversion1.11.13-alpine, byperforming a rolling update.
Finally, rollback that update to theprevious version1.11.10-alpine.

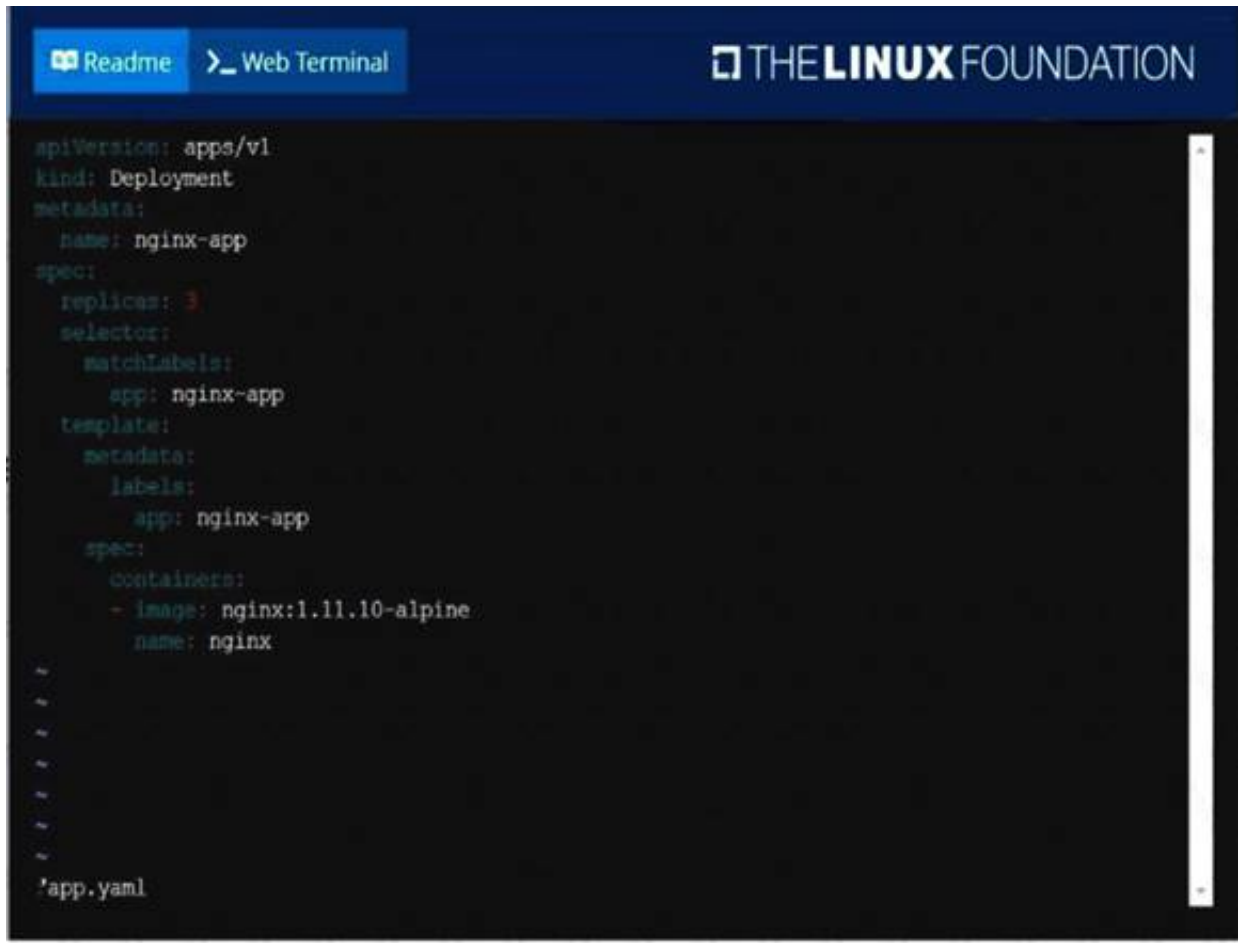
A. Mastered
B. Not Mastered

**Answer:** A

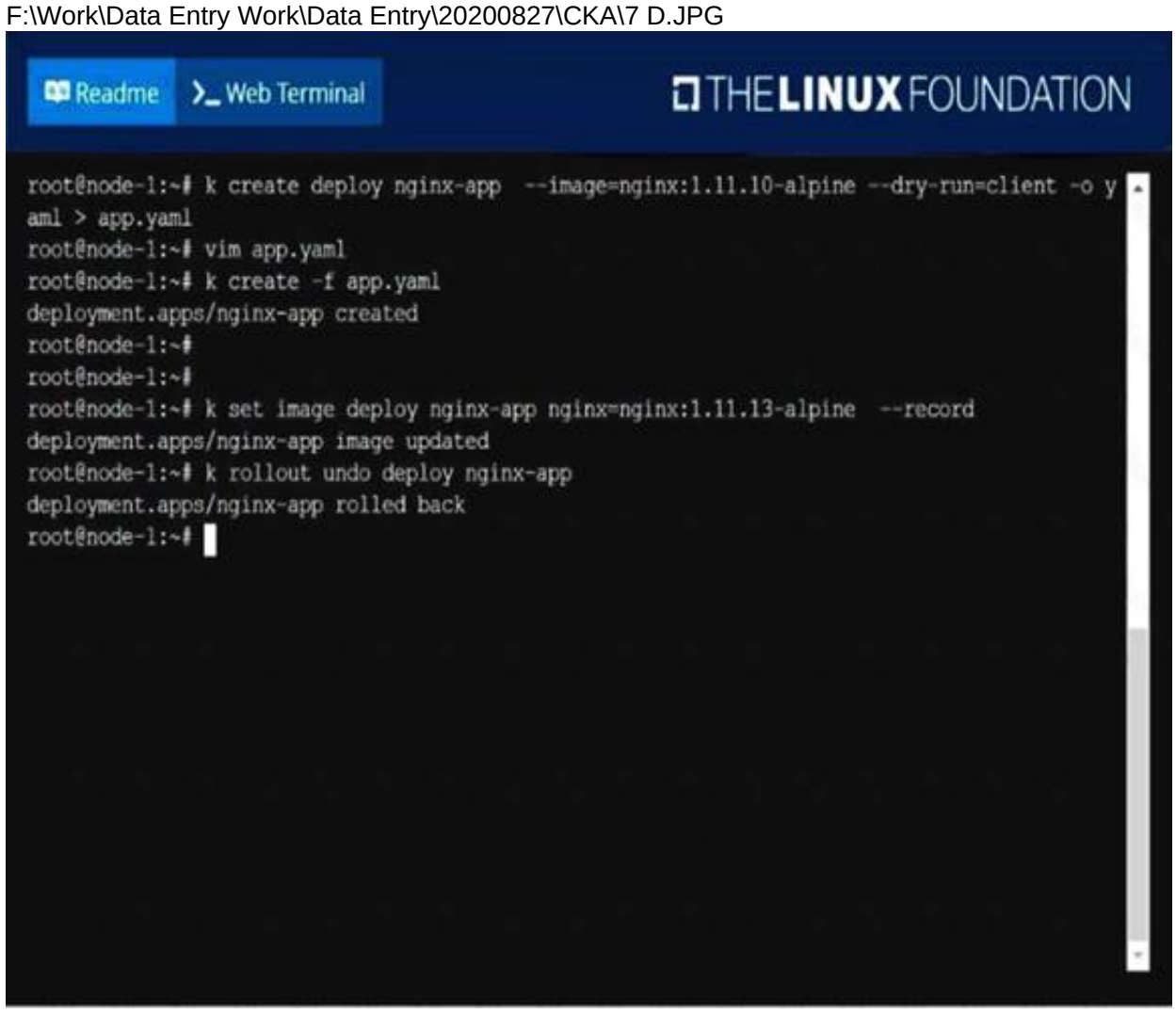
**Explanation:**
solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\7 B.JPG




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




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



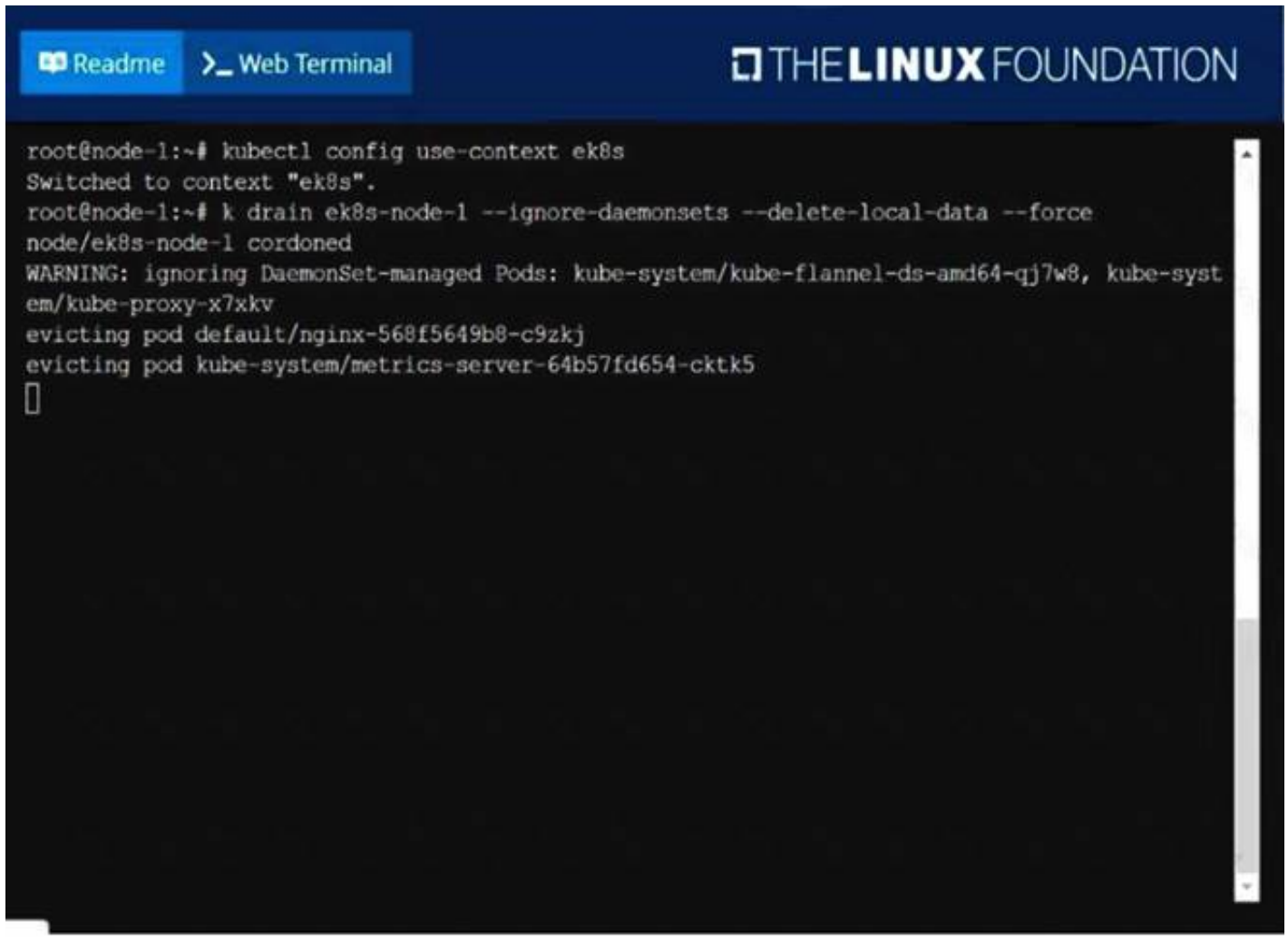

**NEW QUESTION 3**
Set the node named ek8s-node-1as unavailable and reschedule all the pods running on it.

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**

solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\19 B.JPG



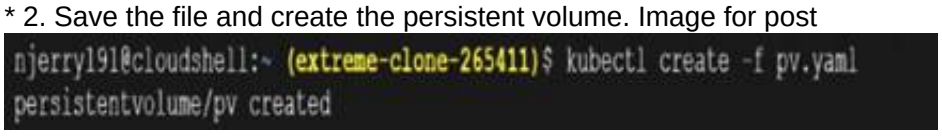

**NEW QUESTION 4**
Create a persistent volume with nameapp-data, of capacity2Giandaccess modeReadWriteMany. Thetype of volume ishostPathand itslocation is/srv/app-data.

A. Mastered
B. Not Mastered

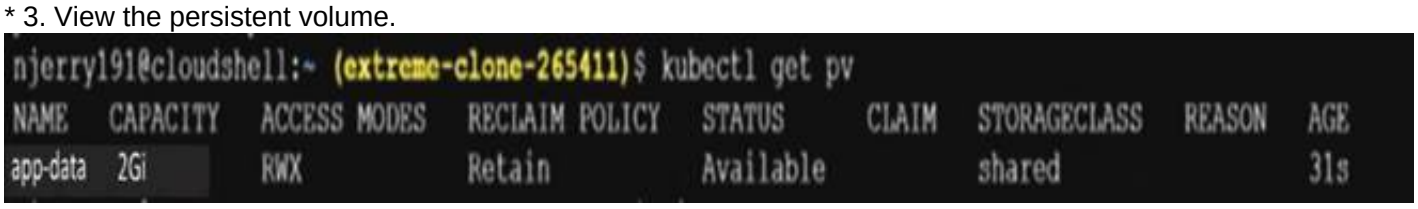
**Answer:** A

**Explanation:**
solution
Persistent Volume
A persistent volume is a piece of storage in aKubernetes 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 knowthe 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 PersistentVolume
kind: PersistentVolumeapiVersion: v1metadata:name:app-dataspec:capacity: # defines the capacity of PV we are creatingstorage:2Gi#the amount of storage we are tying to claimaccessModes: # defines the rights of the volumewe are creating-ReadWriteManyhostPath:path: "/srv/app-data" # path to which we are creating the volume
Challenge
Create a Persistent Volume namedapp-data, with access modeReadWriteMany, storage classname shared,2Giof storage capacity and the host path/srv/app-data.


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




* 3. View the persistent volume.




Our persistent volume status is available meaning it is available and it has not been mounted yet. This status willchange 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

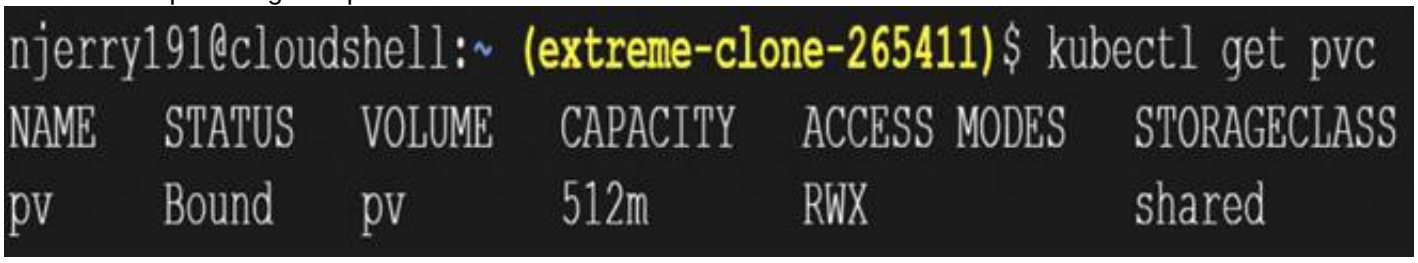
Create a Persistent Volume Claim that requests the Persistent Volume we had created above. The claim should request 2Gi. Ensurethat the Persistent Volume Claim has the same storageClassName as the persistentVolume you had previously created.

kind: PersistentVolumeapiVersion: v1metadata:name:app-data spec:
accessModes:-ReadWriteManyresources:
requests:storage:2Gi storageClassName:shared

* 2. Save and create the pvc

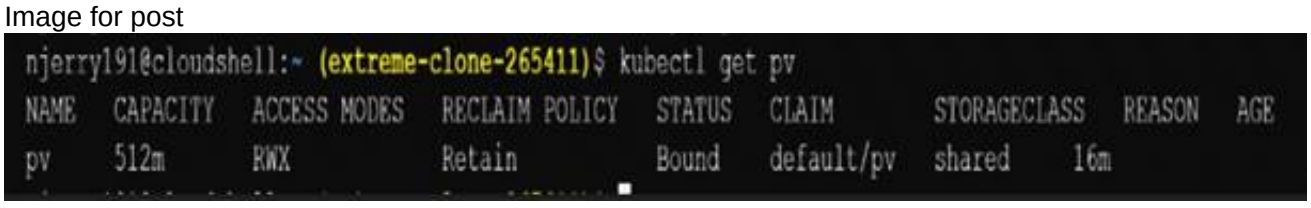
njerry191@cloudshell:~(extreme-clone-2654111)$ kubect1 create -f app-data.yaml persistentvolumeclaim/app-data created

* 3. View the pvc Image for post




* 4. Let??s see what has changed in the pv we had initially created.

Image for post




Our status has now changed fromavailabletobound.

* 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: nullname: app-dataspec:volumes:- name:congigpvcpersistenVolumeClaim:claimName: app-datacontainers:- image: nginxname: appvolumeMounts:- mountPath: "/srv/app-data"name: configpvc

**NEW QUESTION 5**

List all the pods sorted by name

A. Mastered
B. Not Mastered

**Answer:** A

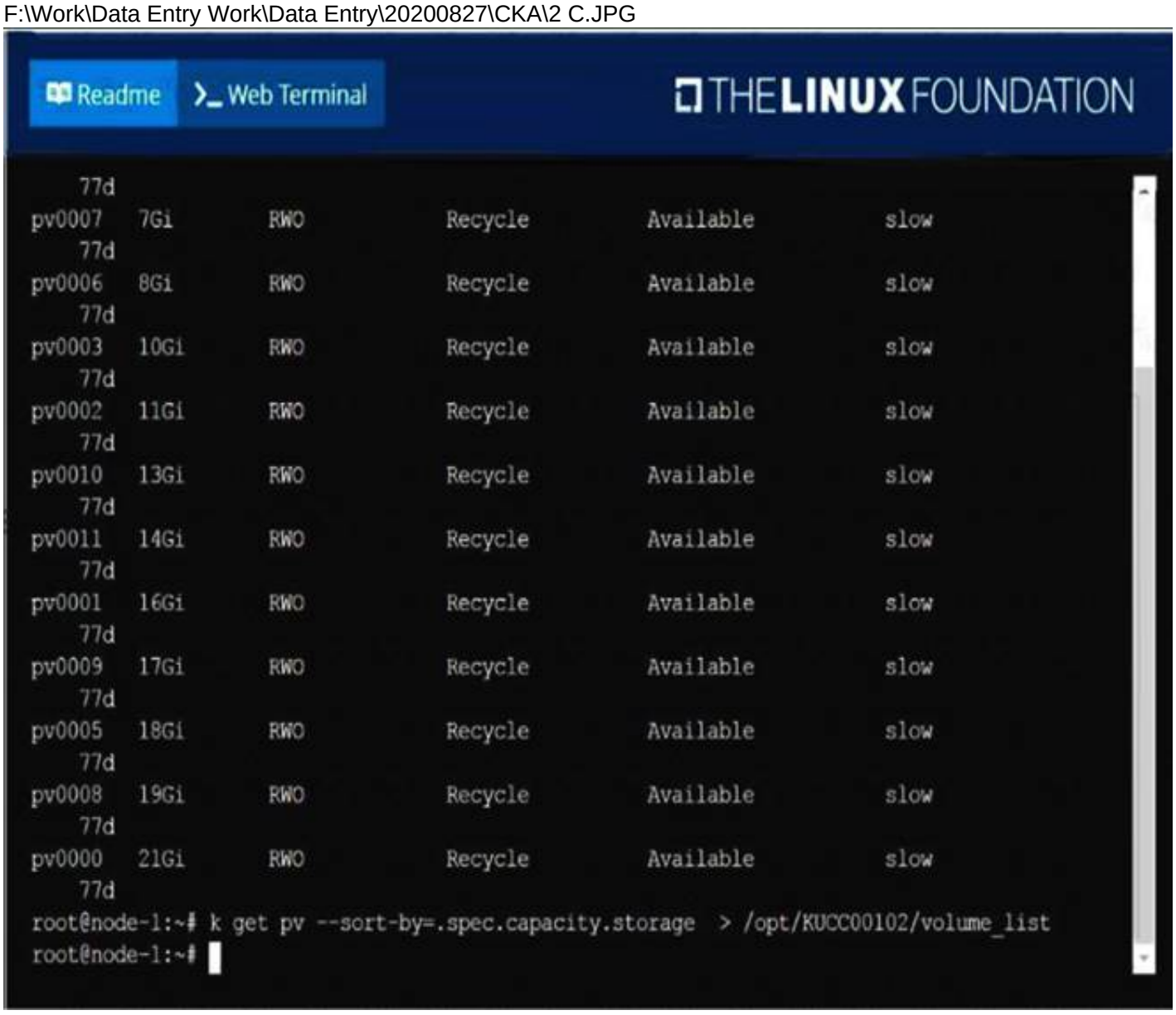
**Explanation:**
kubect1 get pods --sort-by=.metadata.name

**NEW QUESTION 6**
List all persistent volumes sorted bycapacity, saving the fullkubectloutput to
/opt/KUCC00102/volume_list. Usekubectl 's own functionality forsorting the output, and do not manipulate it any further.

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\2 C.JPG

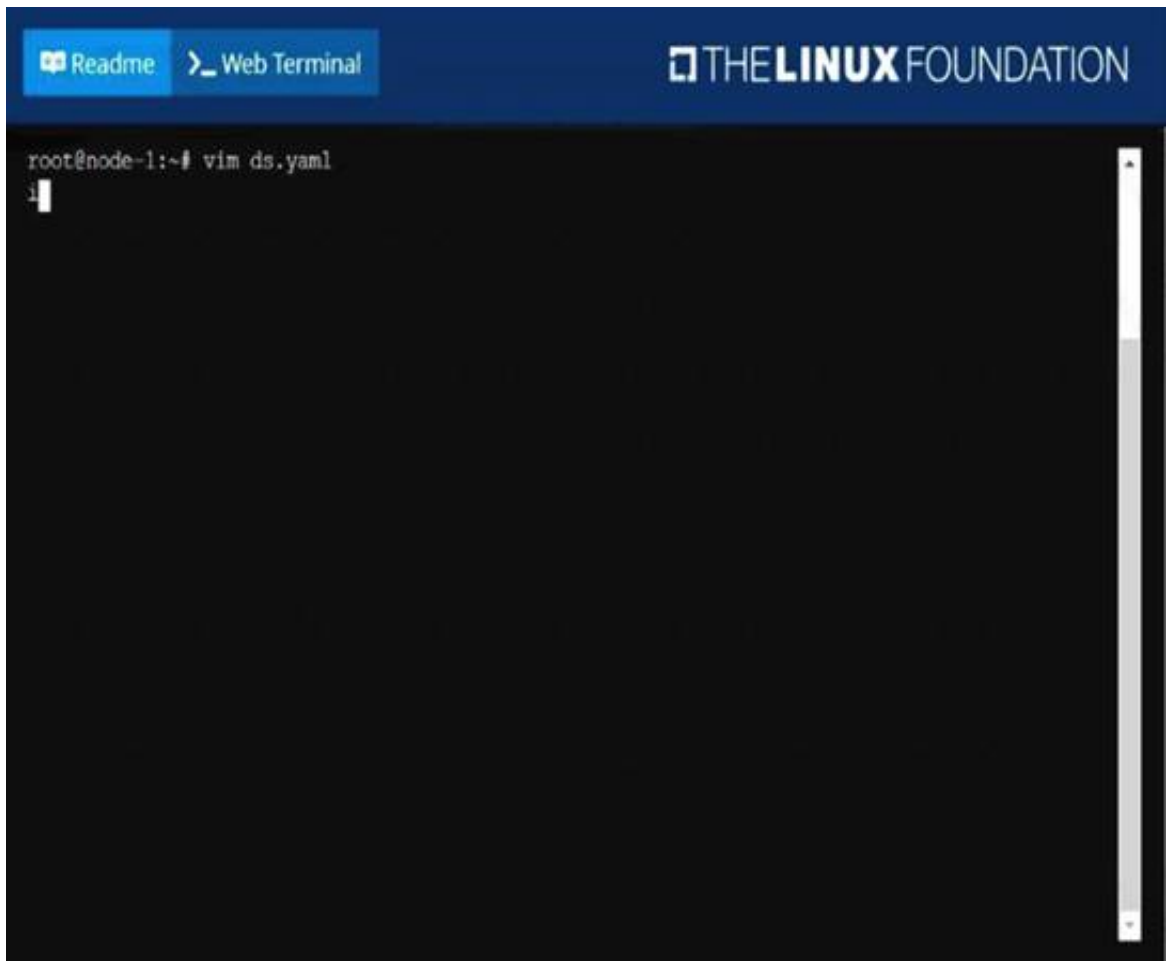



**NEW QUESTION 7**
Ensure a single instance of podnginxis running on each node of theKubernetes cluster wherenginxalso represents the Image name whichhas to be used. Do not override anytaints currently in place.
UseDaemonSetto complete thistask and useds-kusc00201asDaemonSet name.

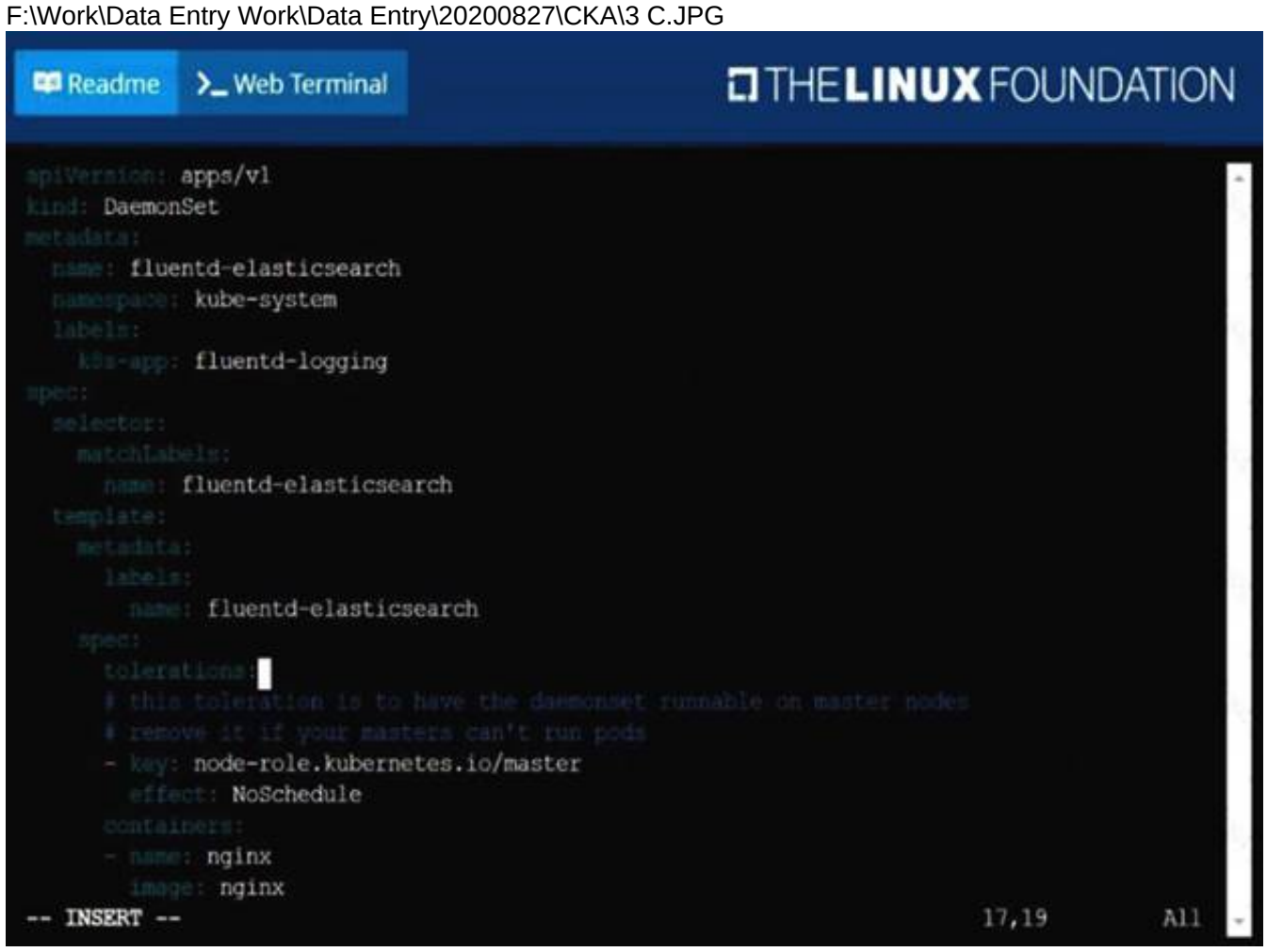
A. Mastered
B. Not Mastered

**Answer:** A

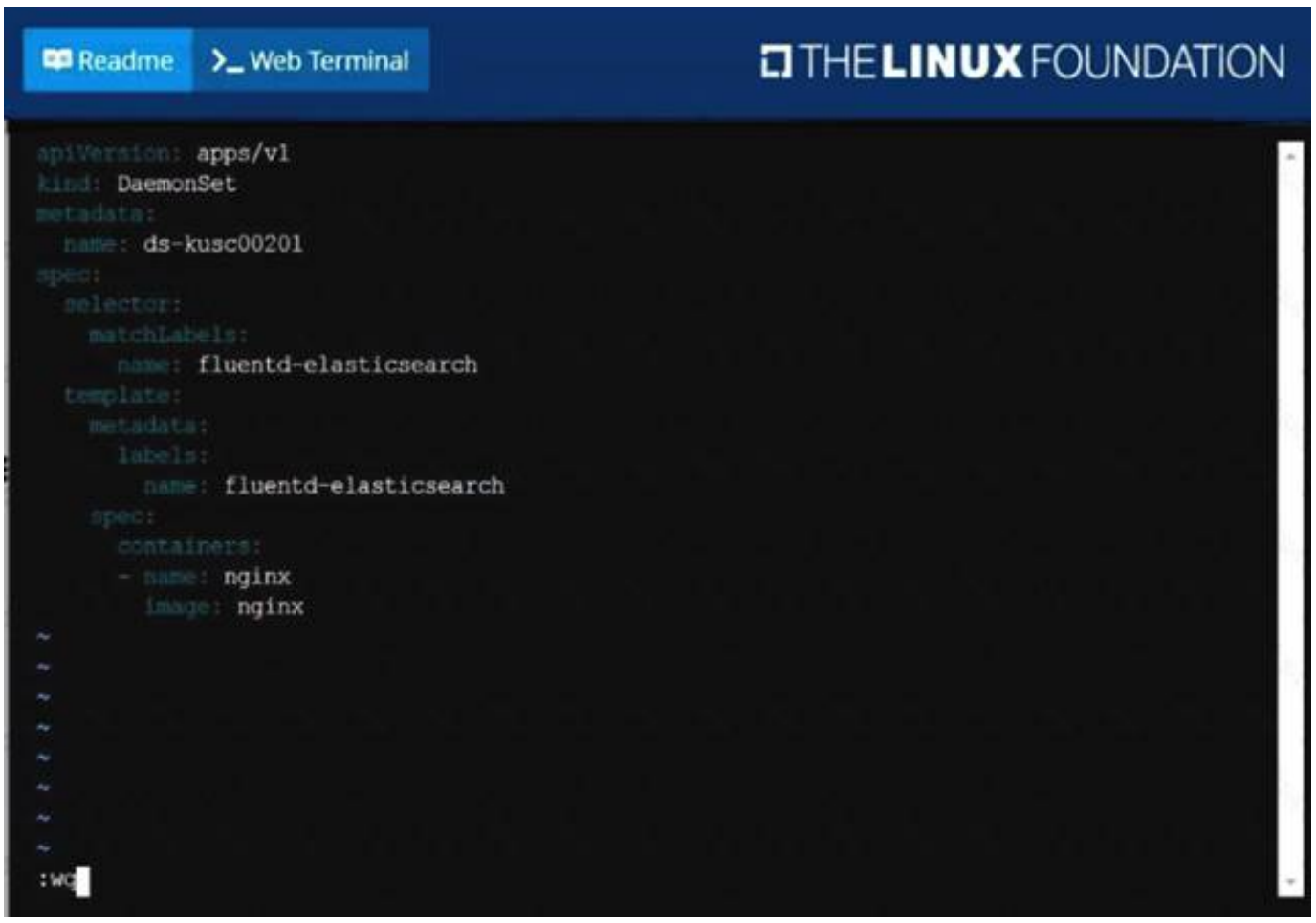
**Explanation:**
solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\3 B.JPG



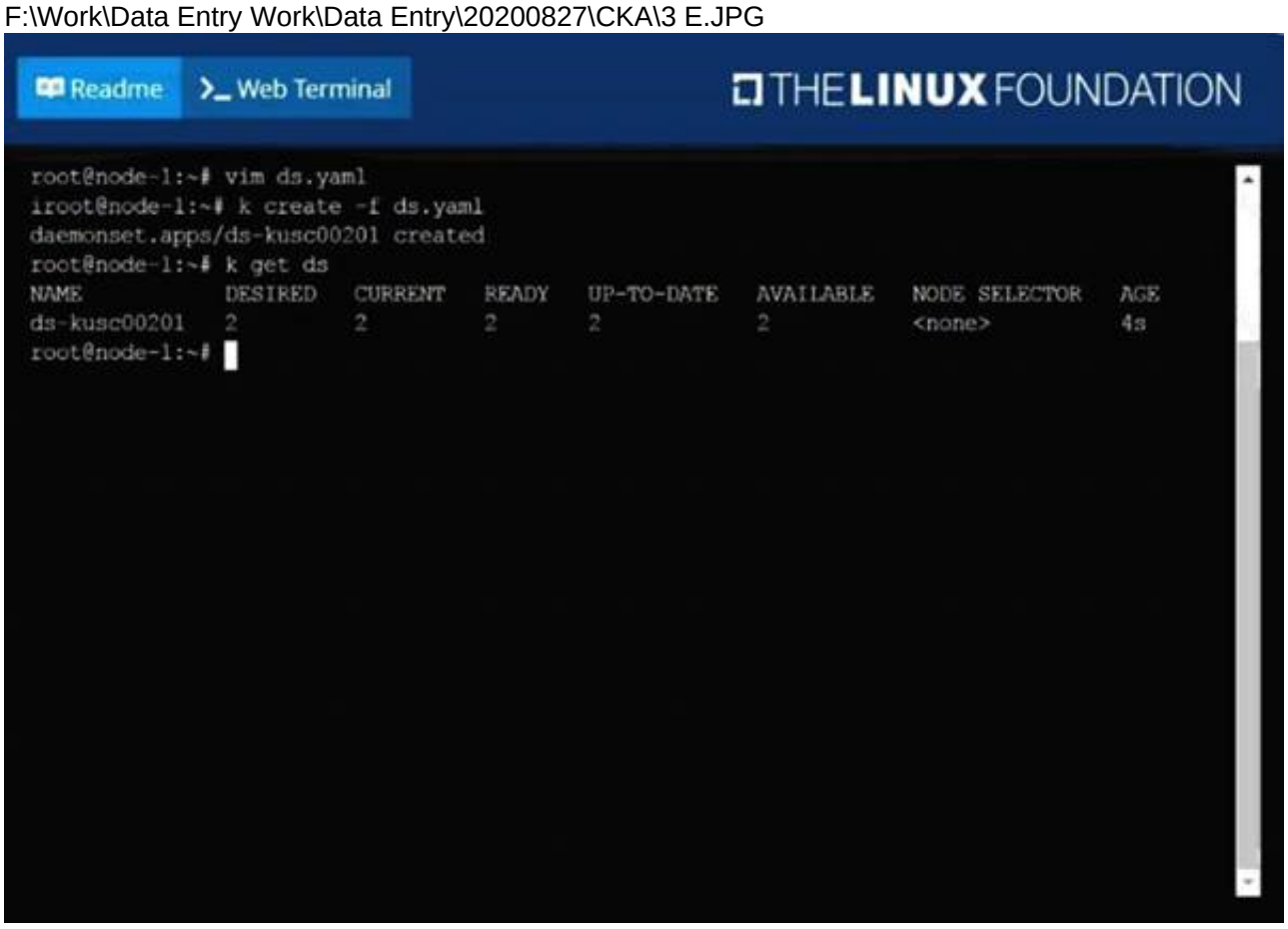

F:\Work\Data Entry Work\Data Entry\20200827\CKA\3 C.JPG




F:\Work\Data Entry Work\Data Entry\20200827\CKA\3 D.JPG




F:\Work\Data Entry Work\Data Entry\20200827\CKA\3 E.JPG

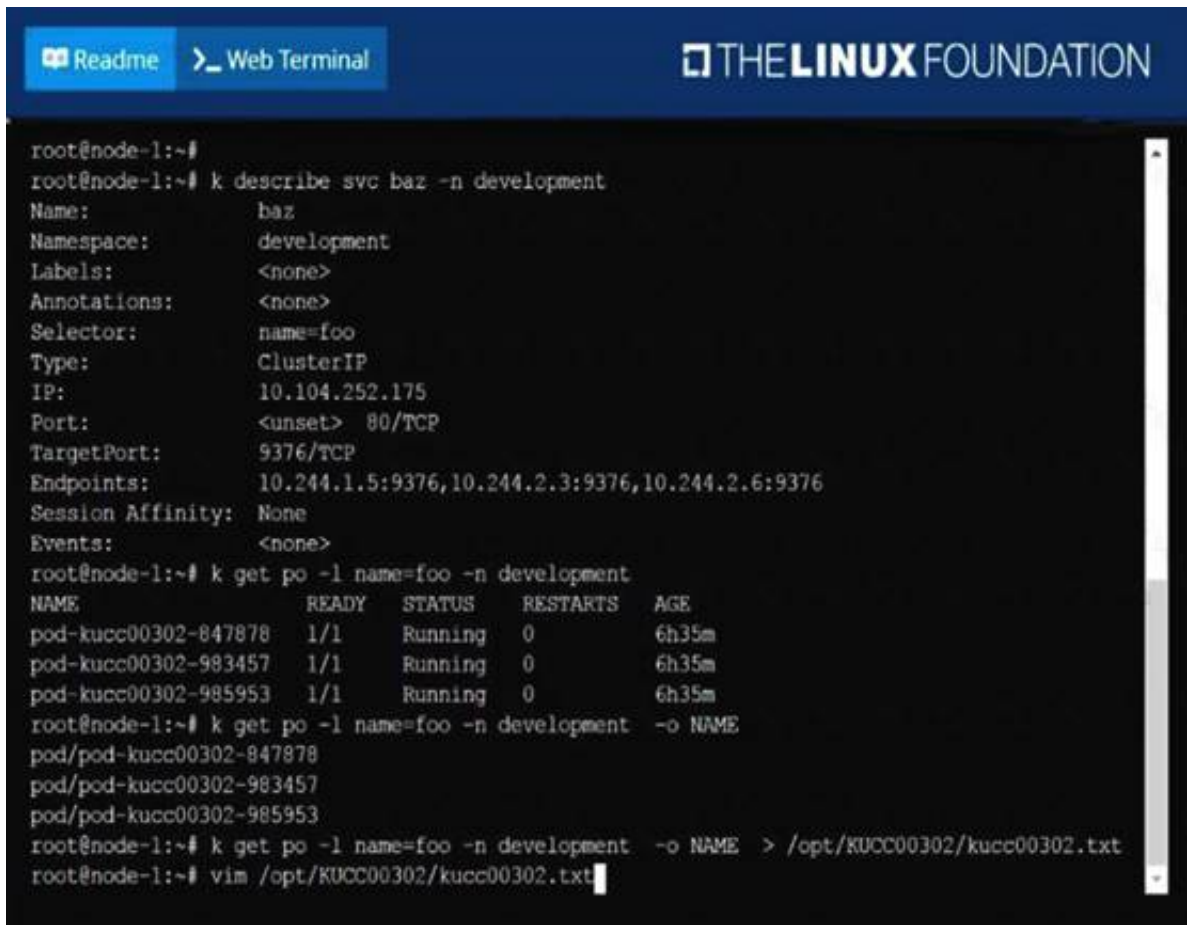



**NEW QUESTION 8**
Create a file:
/opt/KUCC00302/kucc00302.txtthatlists all pods that implement servicebazin namespacedevelopment.
The format of the file should be onepod name per line.

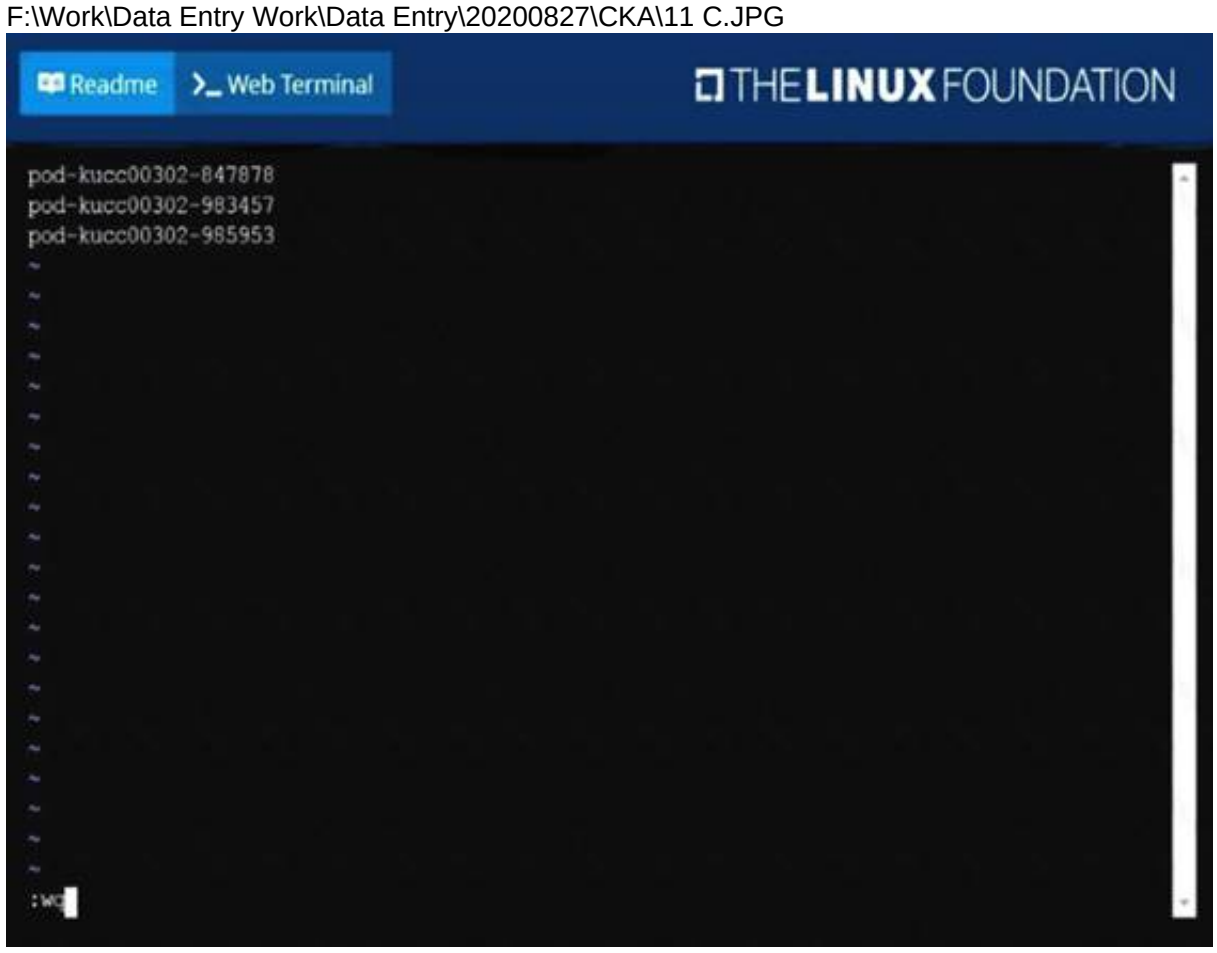
A. Mastered
B. Not Mastered

**Answer:** A

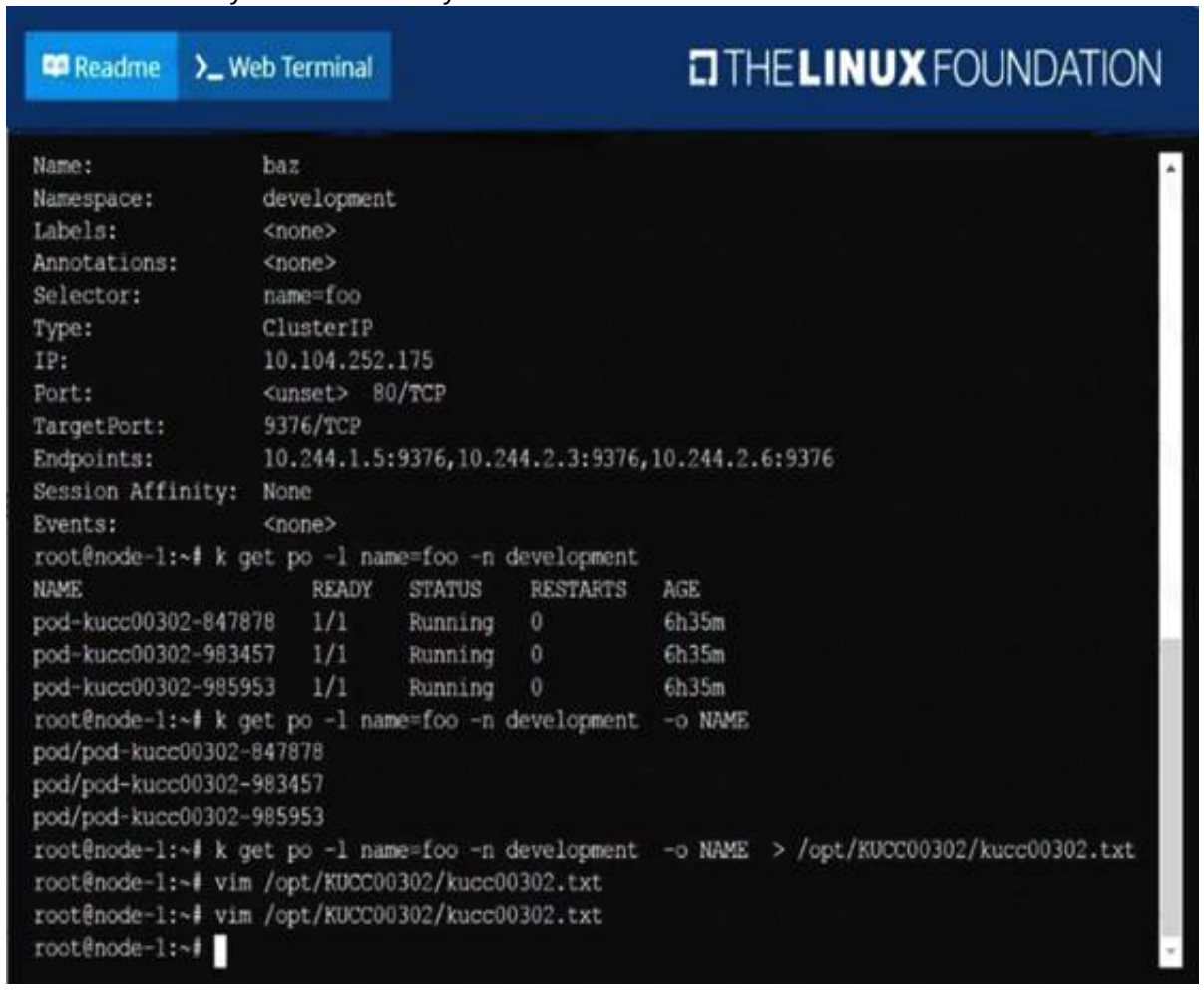
**Explanation:**
solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\11 B.JPG




F:\Work\Data Entry Work\Data Entry\20200827\CKA\11 C.JPG




F:\Work\Data Entry Work\Data Entry\20200827\CKA\11 D.JPG



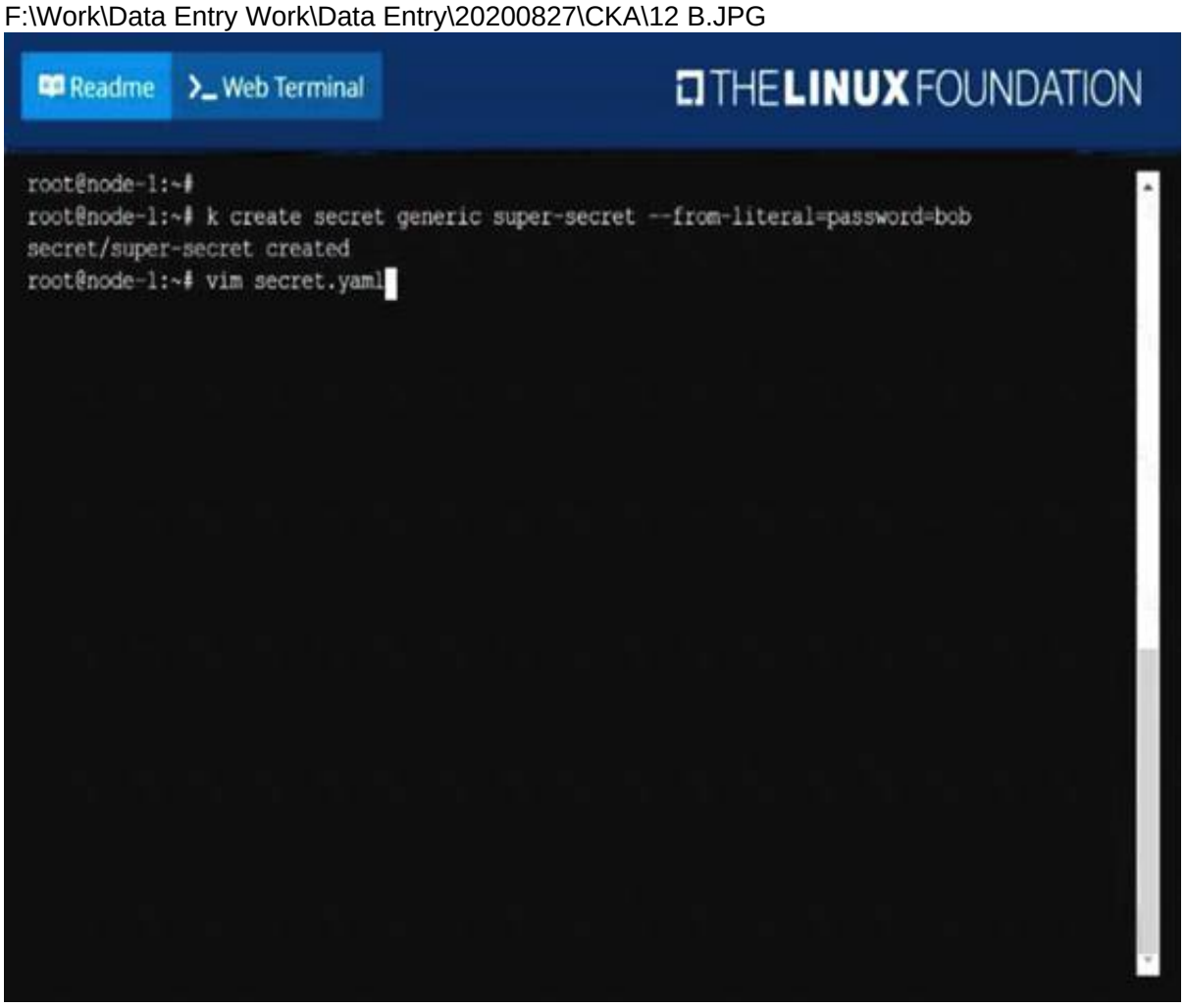
**NEW QUESTION 9**
Create a Kubernetes secret asfollows:
- Name: super-secret
- password: bob

Create a pod namedpod-secrets-via-file, using theredisImage, which mounts a secret namedsuper-secretat /secrets.
Create a second pod namedpod-secrets-via-env, using theredisImage, which exportspasswordas CONFIDENTIAL

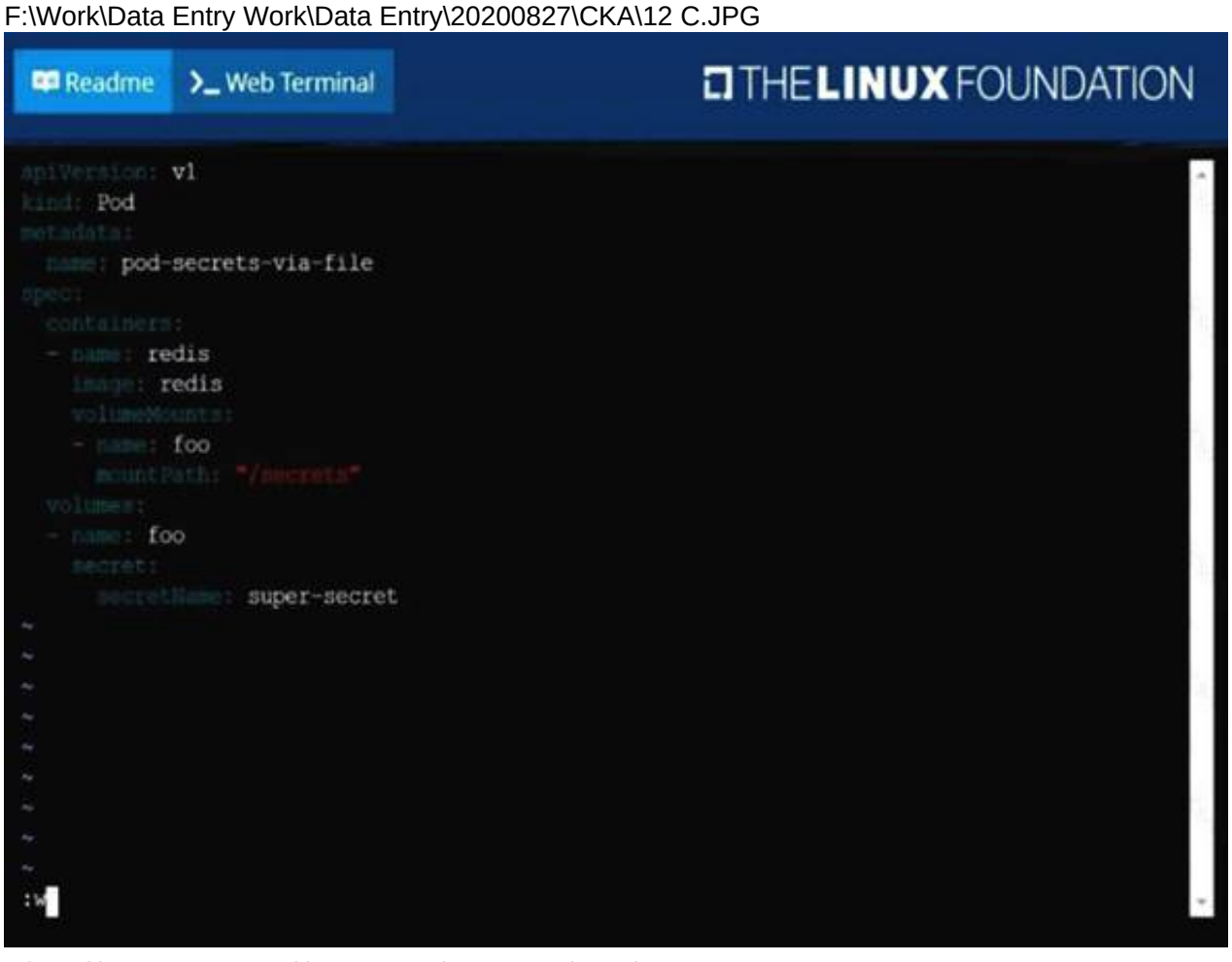
A. Mastered
B. Not Mastered

**Answer:** A

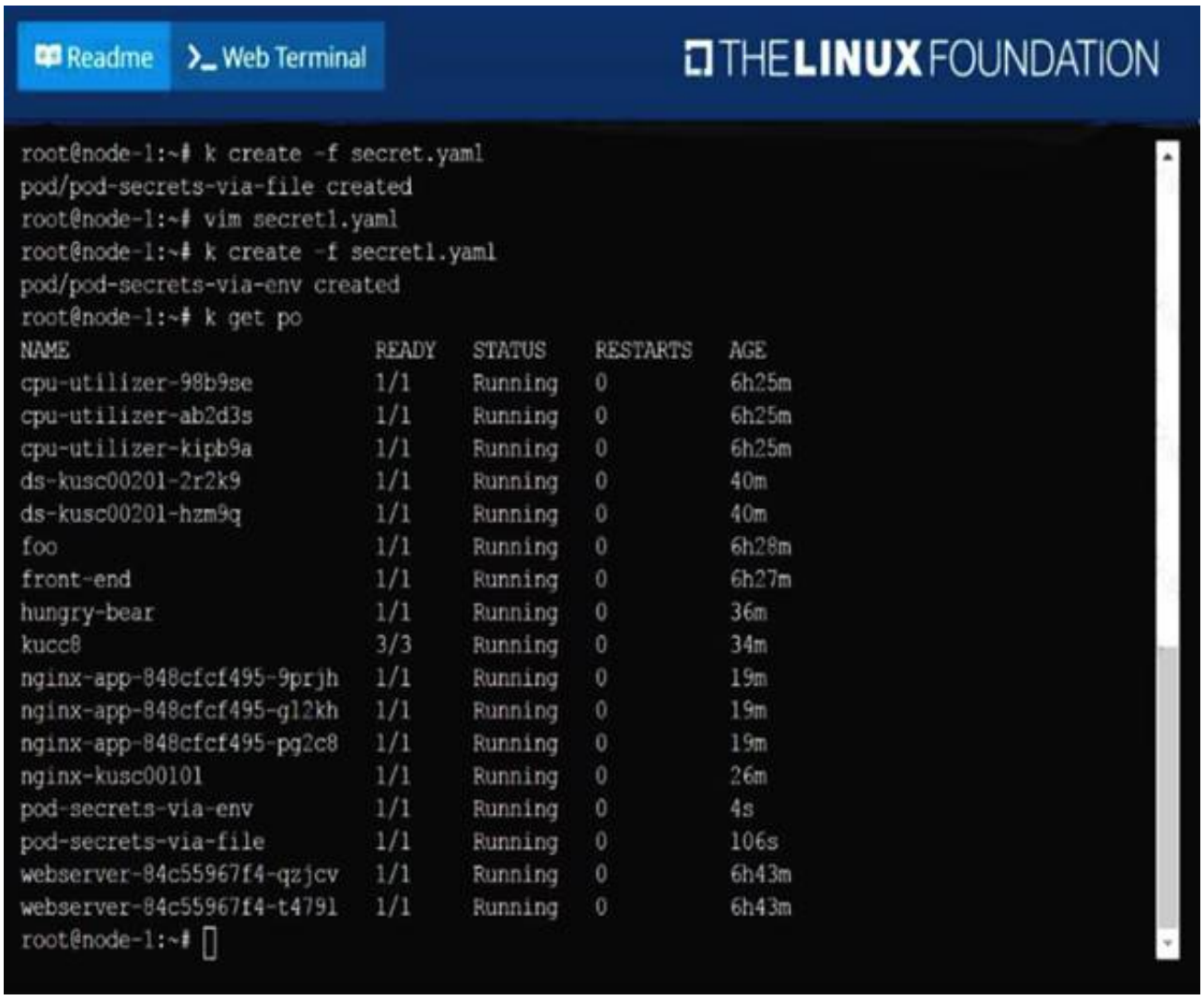
**Explanation:**
solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\12 B.JPG




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




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



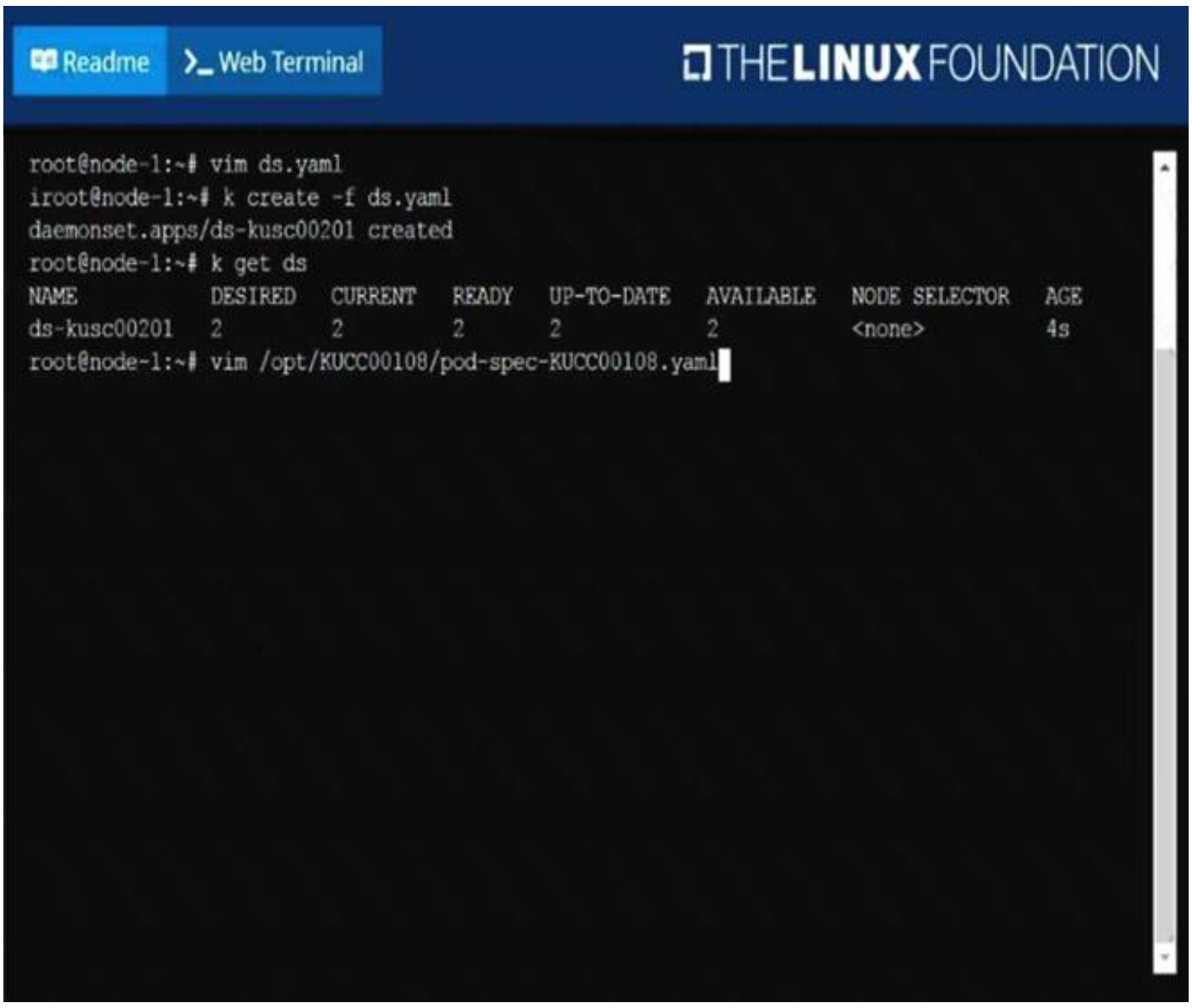

**NEW QUESTION 10**
Perform the following tasks:

- Add an init container tohungry-bear(which has beendefined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)
- The init container should createan empty file named/workdir/calm.txt
- If/workdir/calm.txtis notdetected, the pod should exit
- Once the spec file has beenupdatedwith the init containerdefinition, the pod should becreated

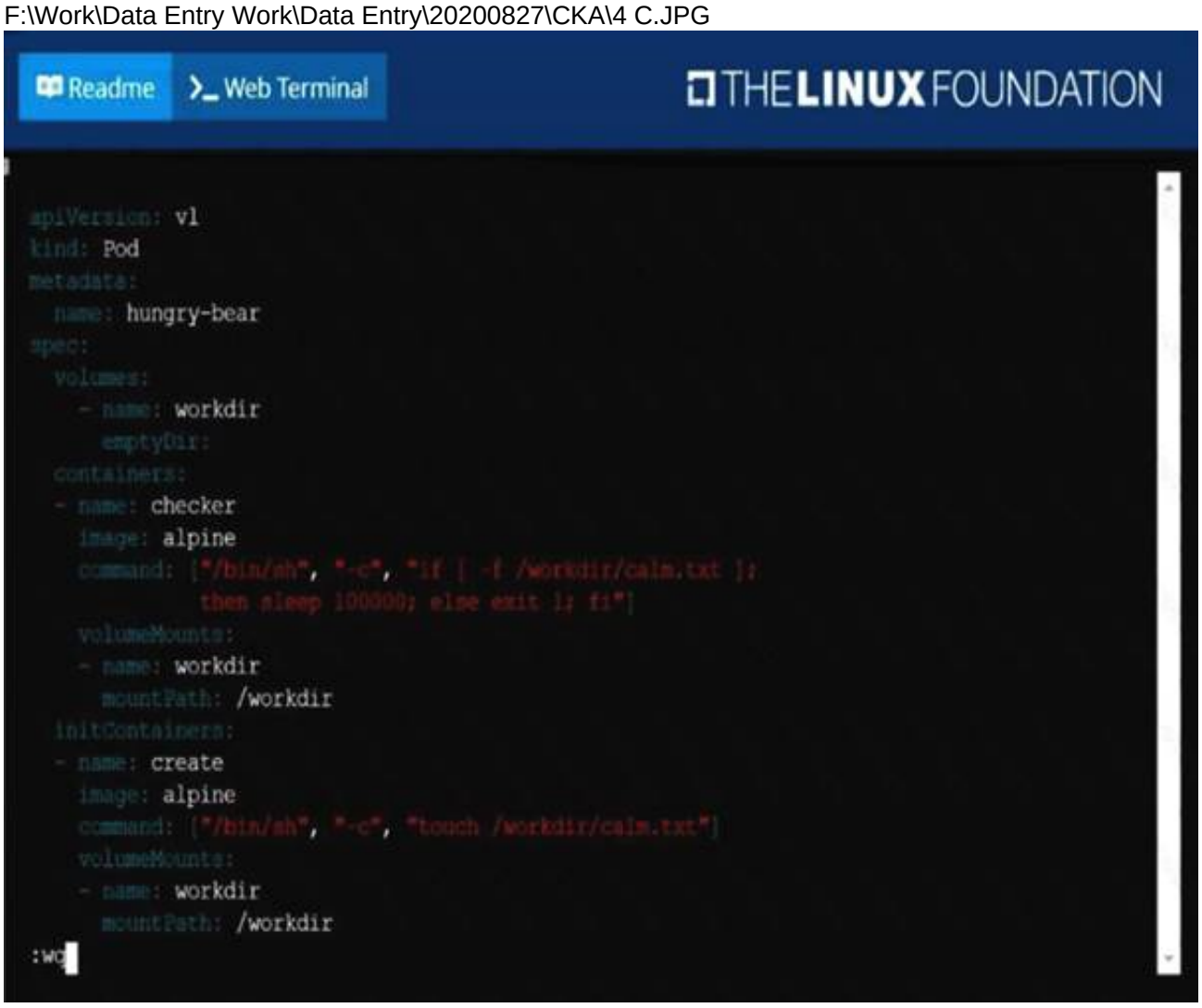
A. Mastered
B. Not Mastered

**Answer:** A

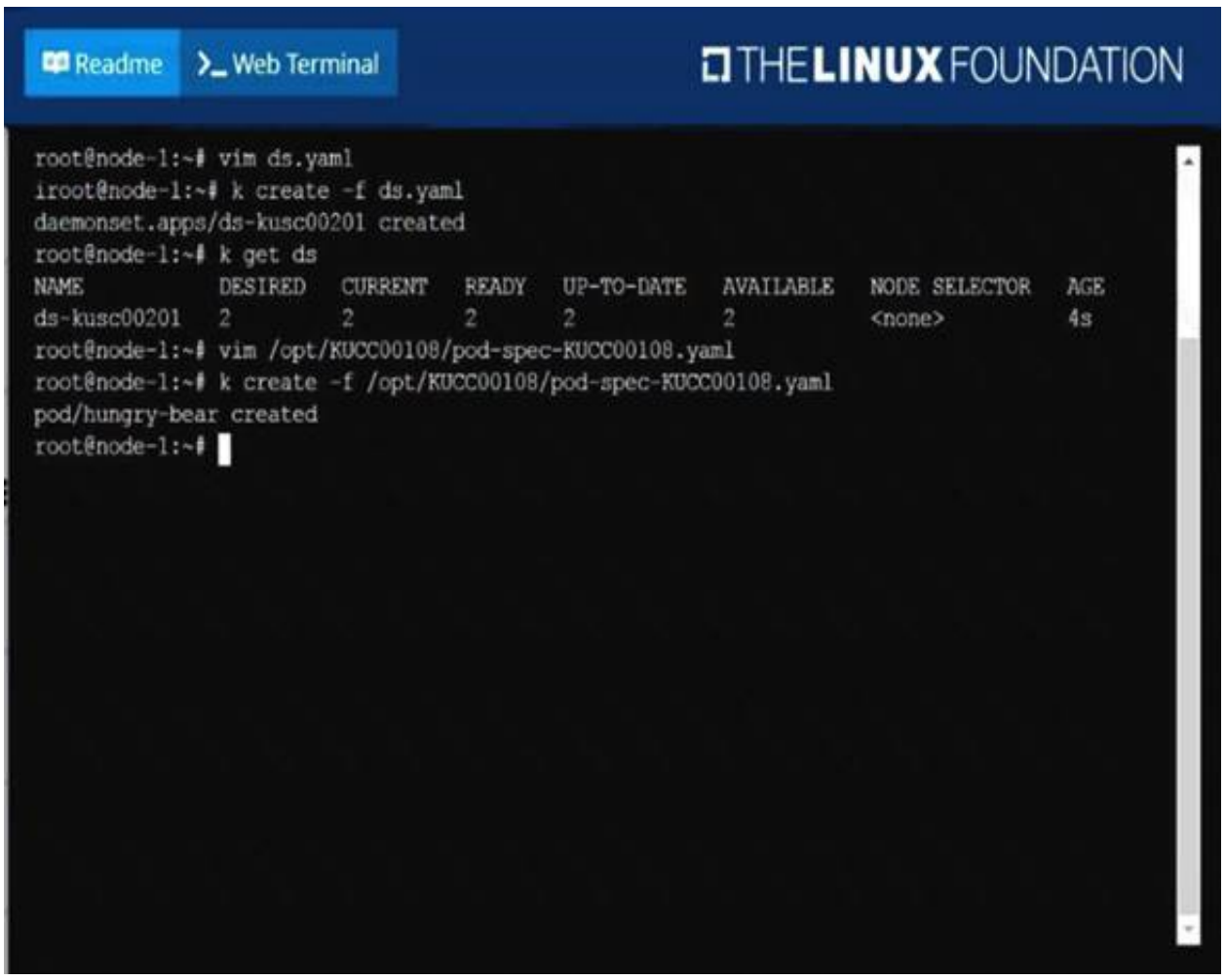
**Explanation:**
solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\4 B.JPG




F:\Work\Data Entry Work\Data Entry\20200827\CKA\4 C.JPG




F:\Work\Data Entry Work\Data Entry\20200827\CKA\4 D.JPG

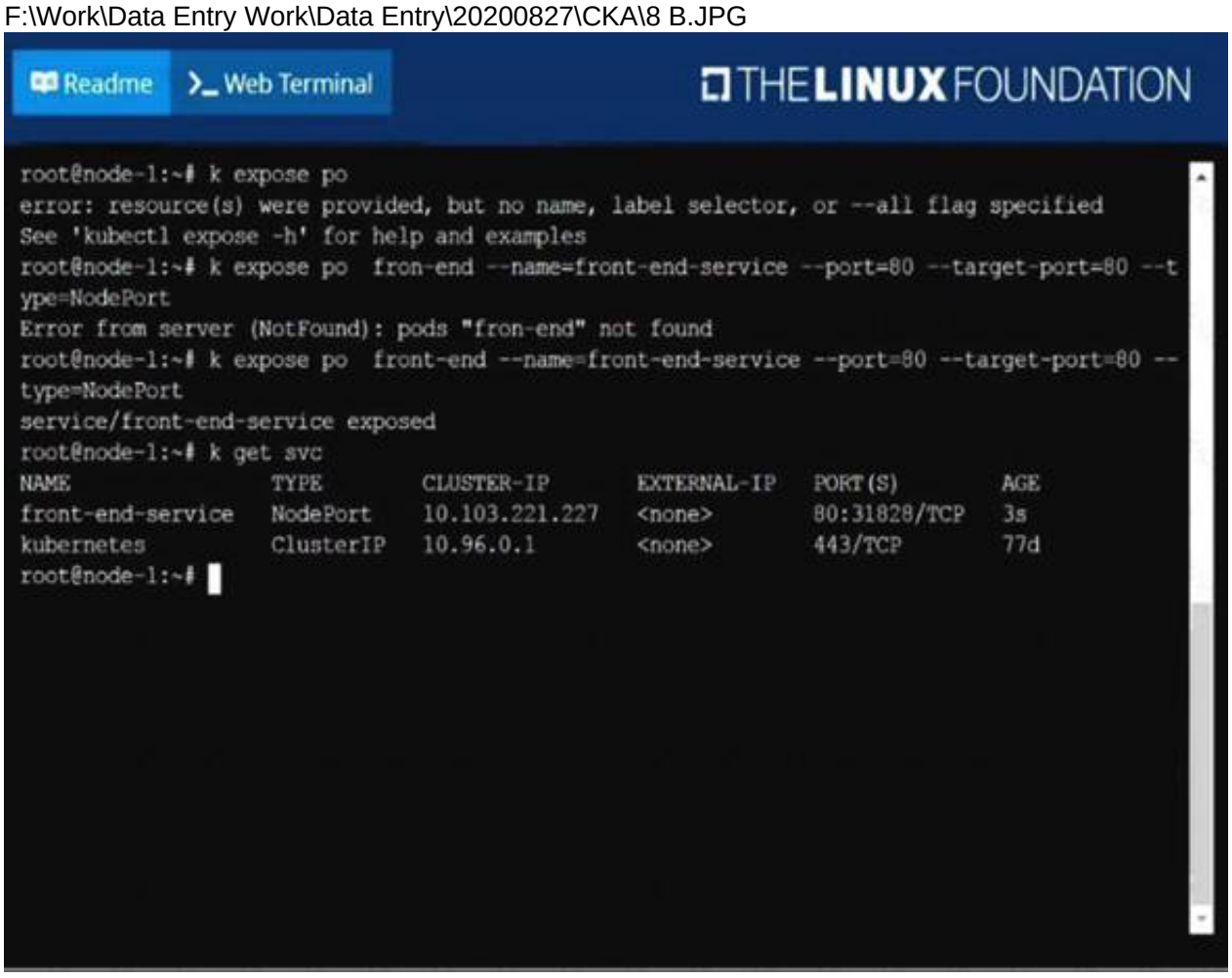



**NEW QUESTION 10**
Create and configure the servicefront-end-serviceso it's accessiblethroughNodePortand routes to theexisting pod namedfront-end.

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\8 B.JPG




**NEW QUESTION 11**
List all the pods showing name and namespace with a json path expression

A. Mastered
B. Not Mastered

**Answer:** A

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

**NEW QUESTION 16**
Create a pod that having 3 containers in it? (Multi-Container)

A. Mastered
B. Not Mastered

**Answer:** A

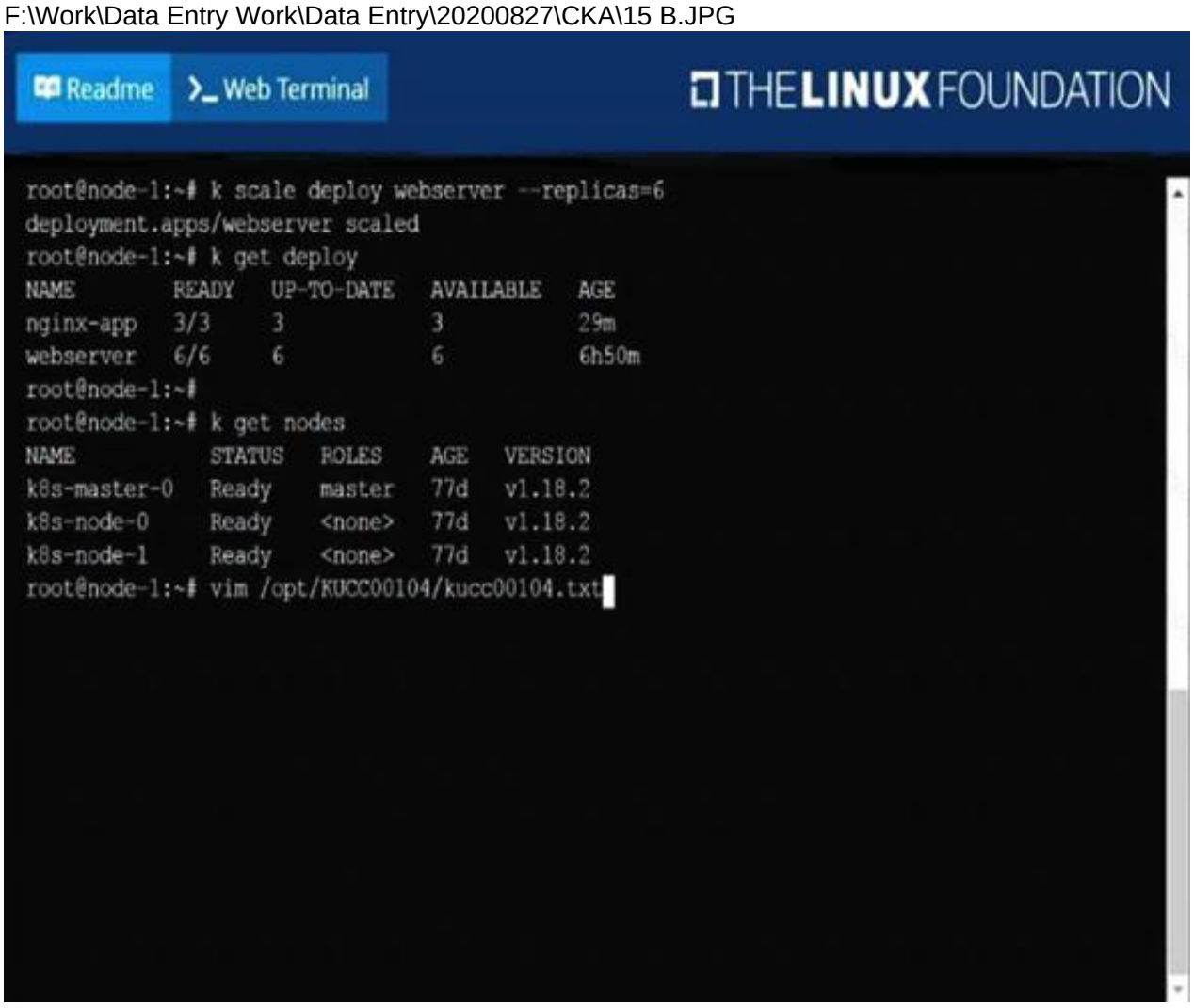
**Explanation:**
image=nginx, image=redis, image=consul Name nginx container as ??nginx-container?? Name redis container as ??redis-container?? Name consul container as ??consul-container??
Create a pod manifest file for a container and append container section for rest of the images
kubectl run multi-container --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 17**
Check to see how many worker nodes are ready (not including nodes taintedNoSchedule) and write the number to/opt/KUCC00104/kucc00104.txt.

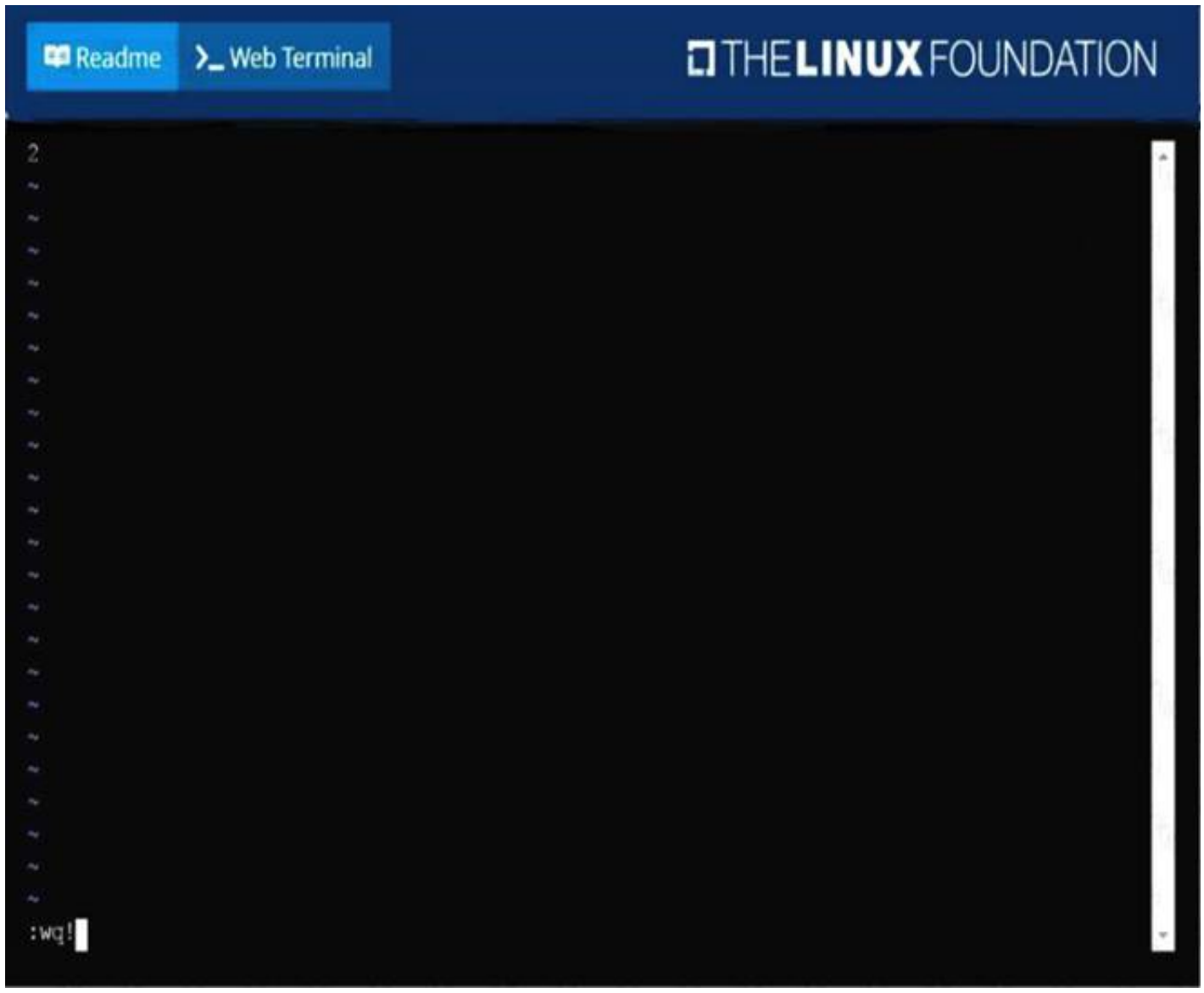
A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\15 B.JPG




F:\Work\Data Entry Work\Data Entry\20200827\CKA\15 C.JPG




**NEW QUESTION 18**
.....

# 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