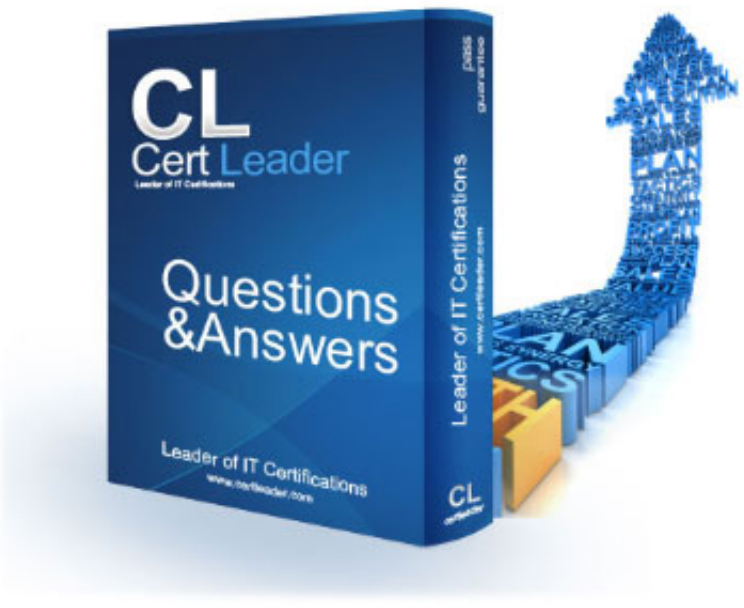
CKA Dumps

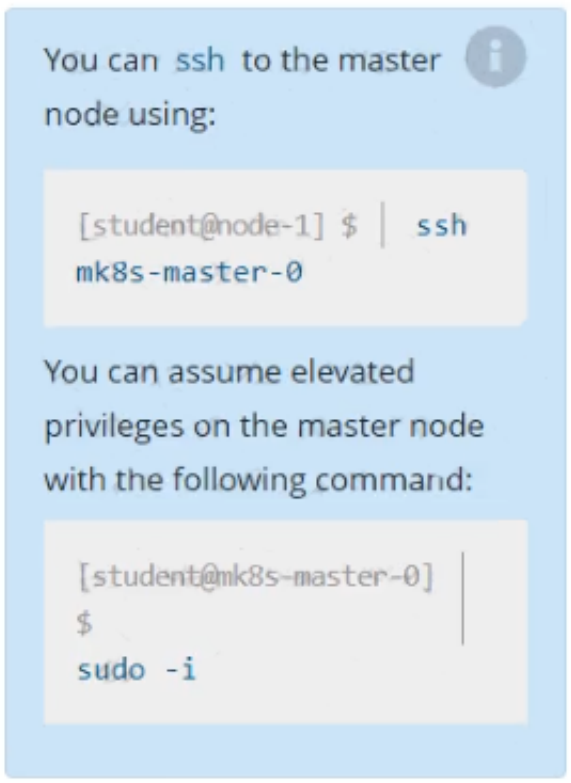
Certified Kubernetes Administrator (CKA) Program

https://www.certleader.com/CKA-dumps.html

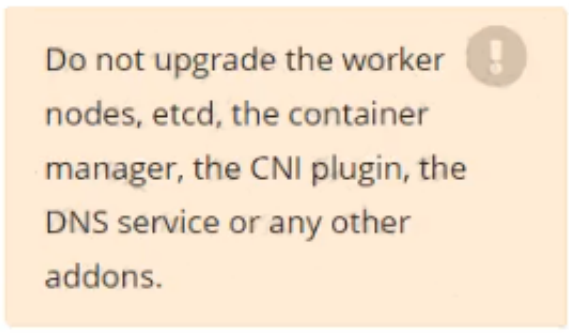


NEW QUESTION 1
Score: 7%

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.



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 kubelet=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 2
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 3
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
List all the pods sorted by name

A. Mastered
B. Not Mastered

Answer: A

Explanation:
kubectl get pods --sort-by=.metadata.name

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
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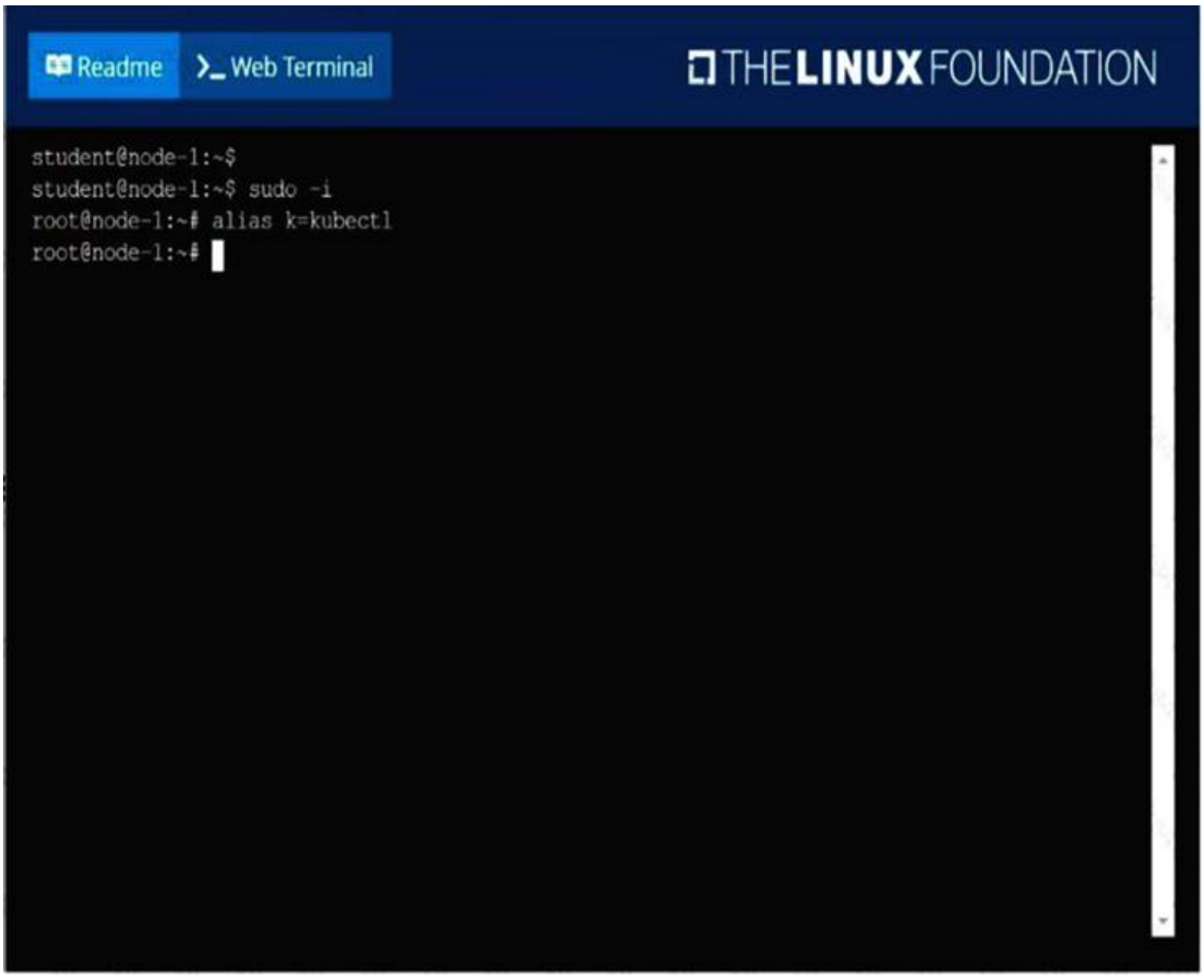

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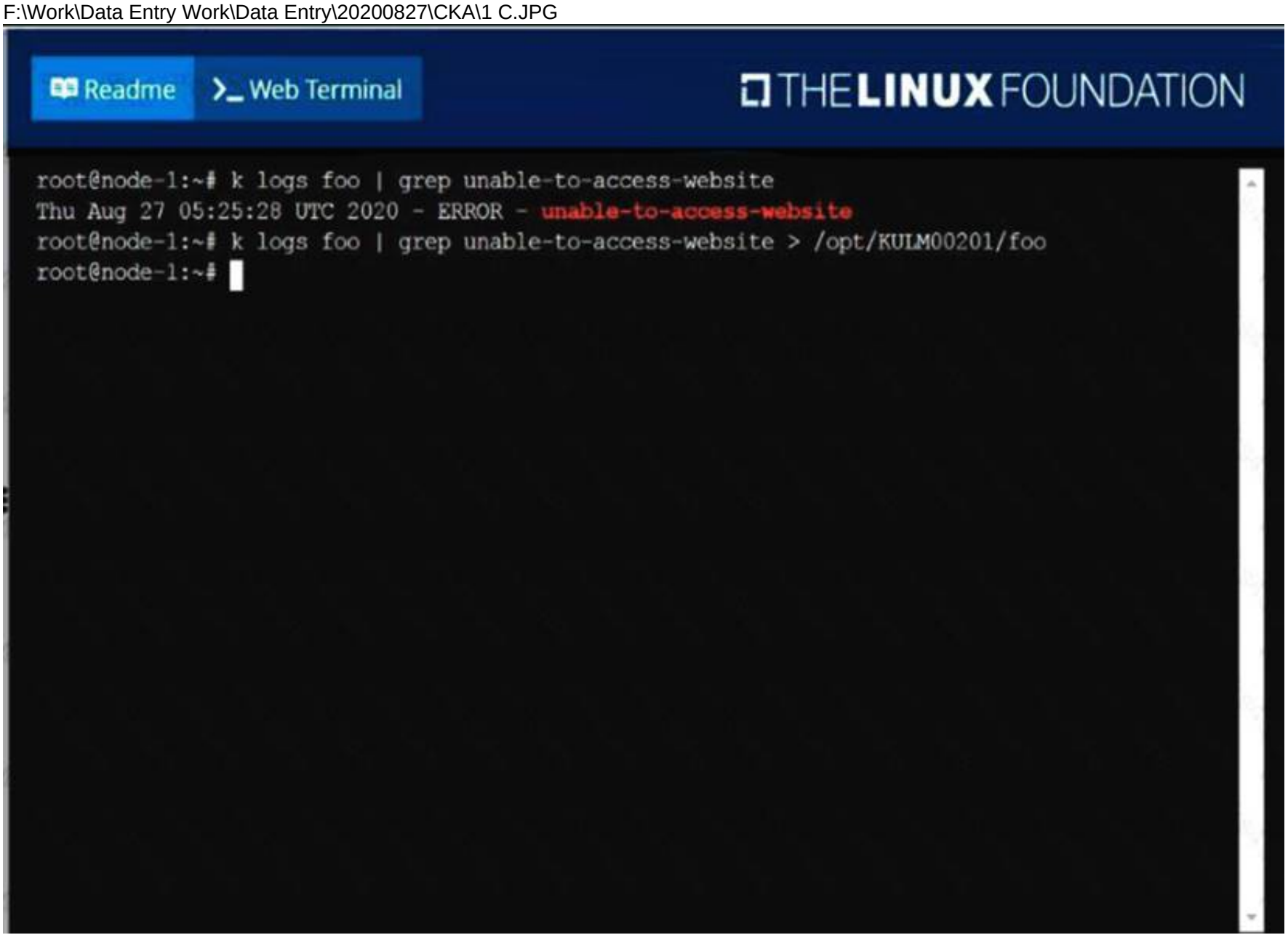
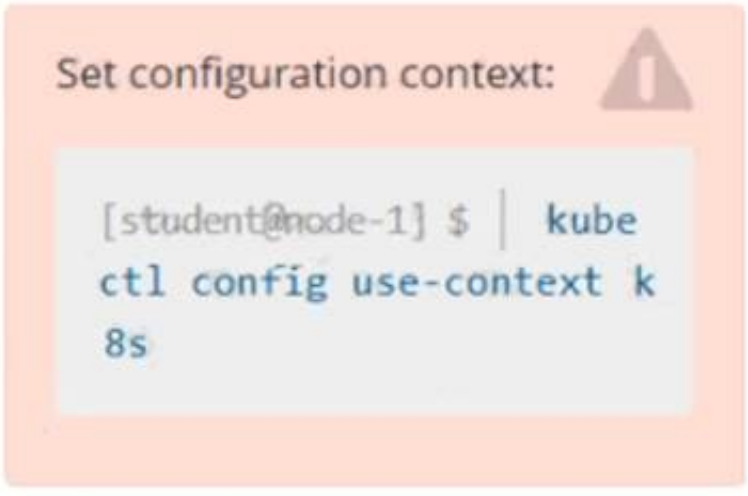


NEW QUESTION 6
Score: 4%



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
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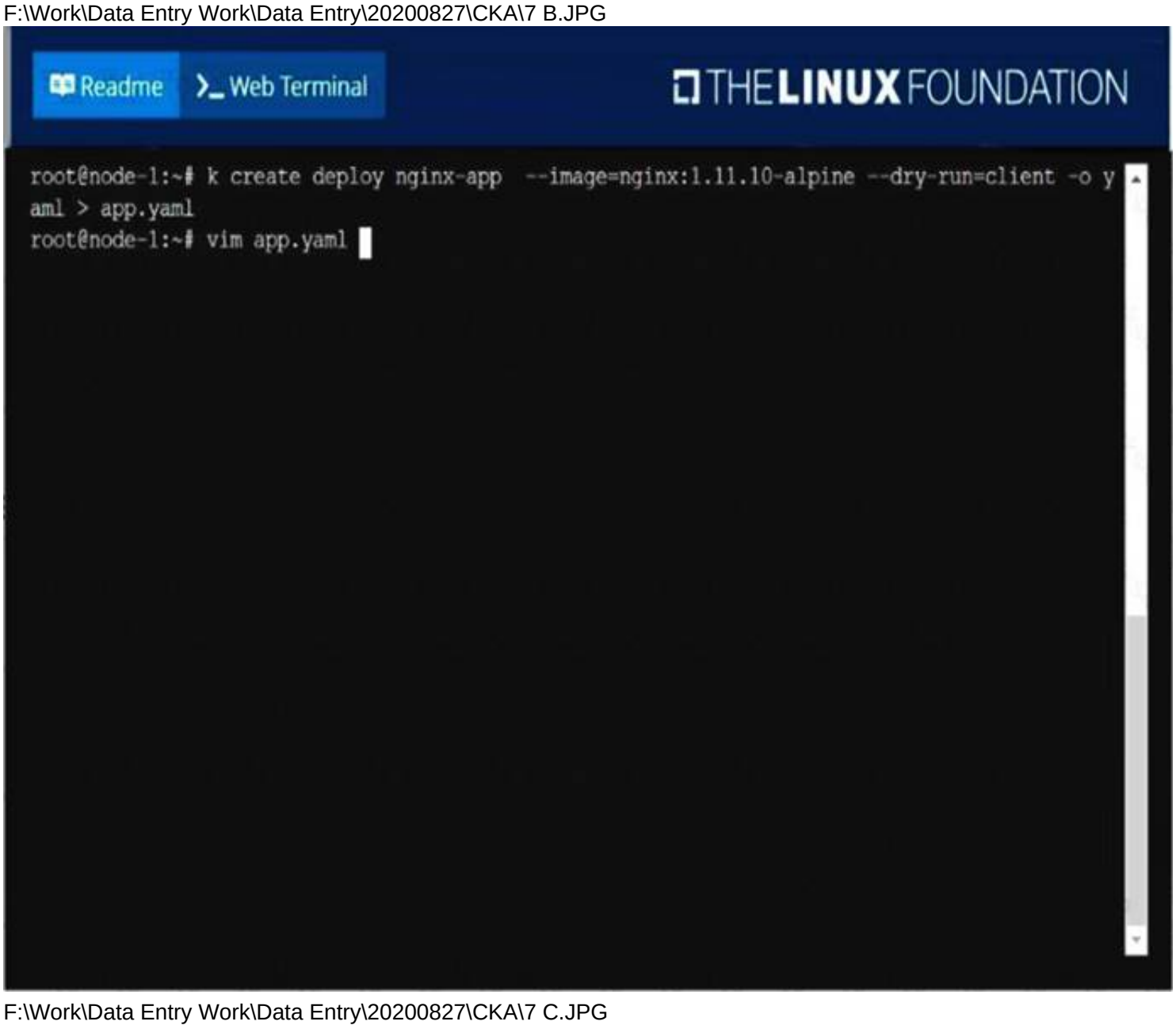

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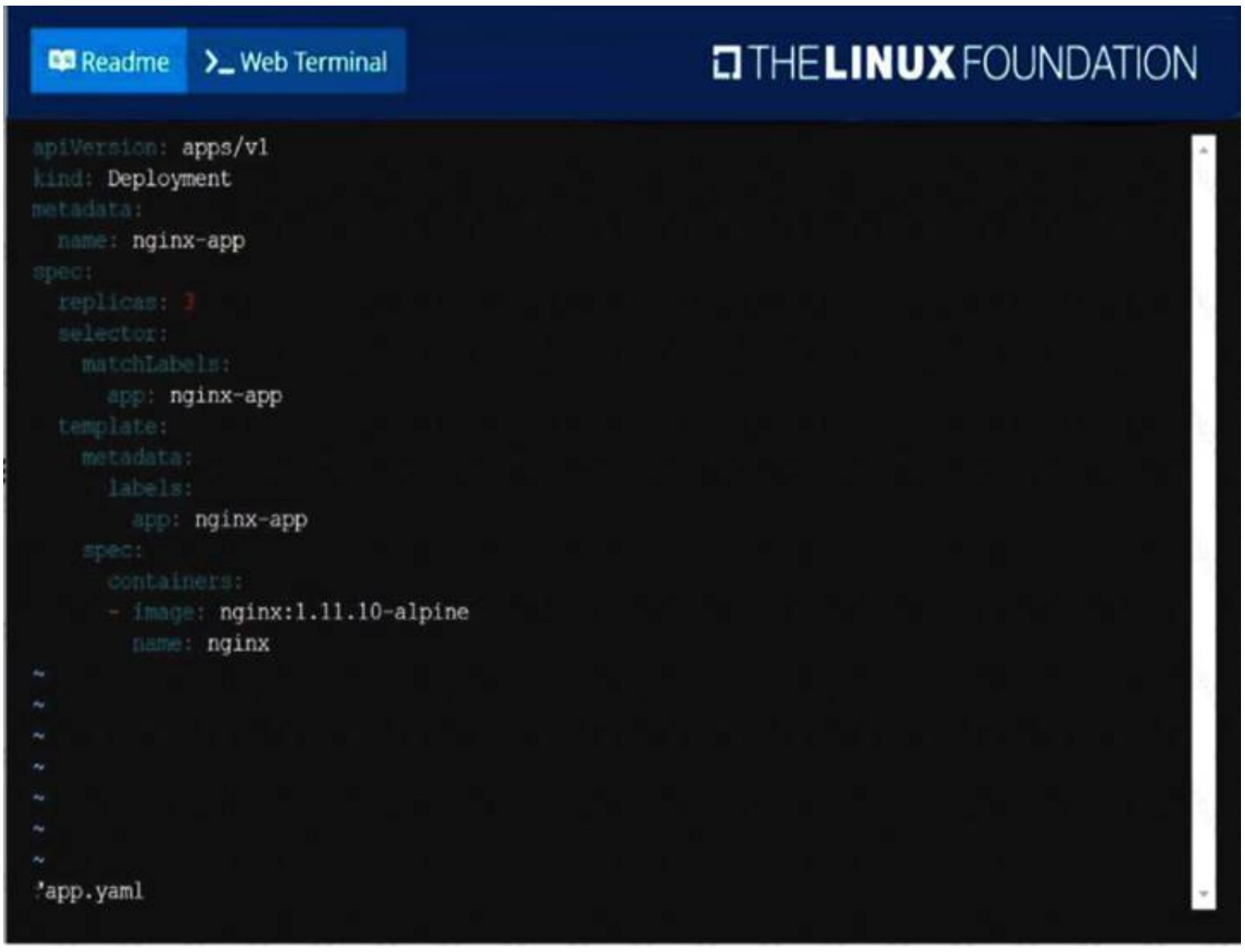

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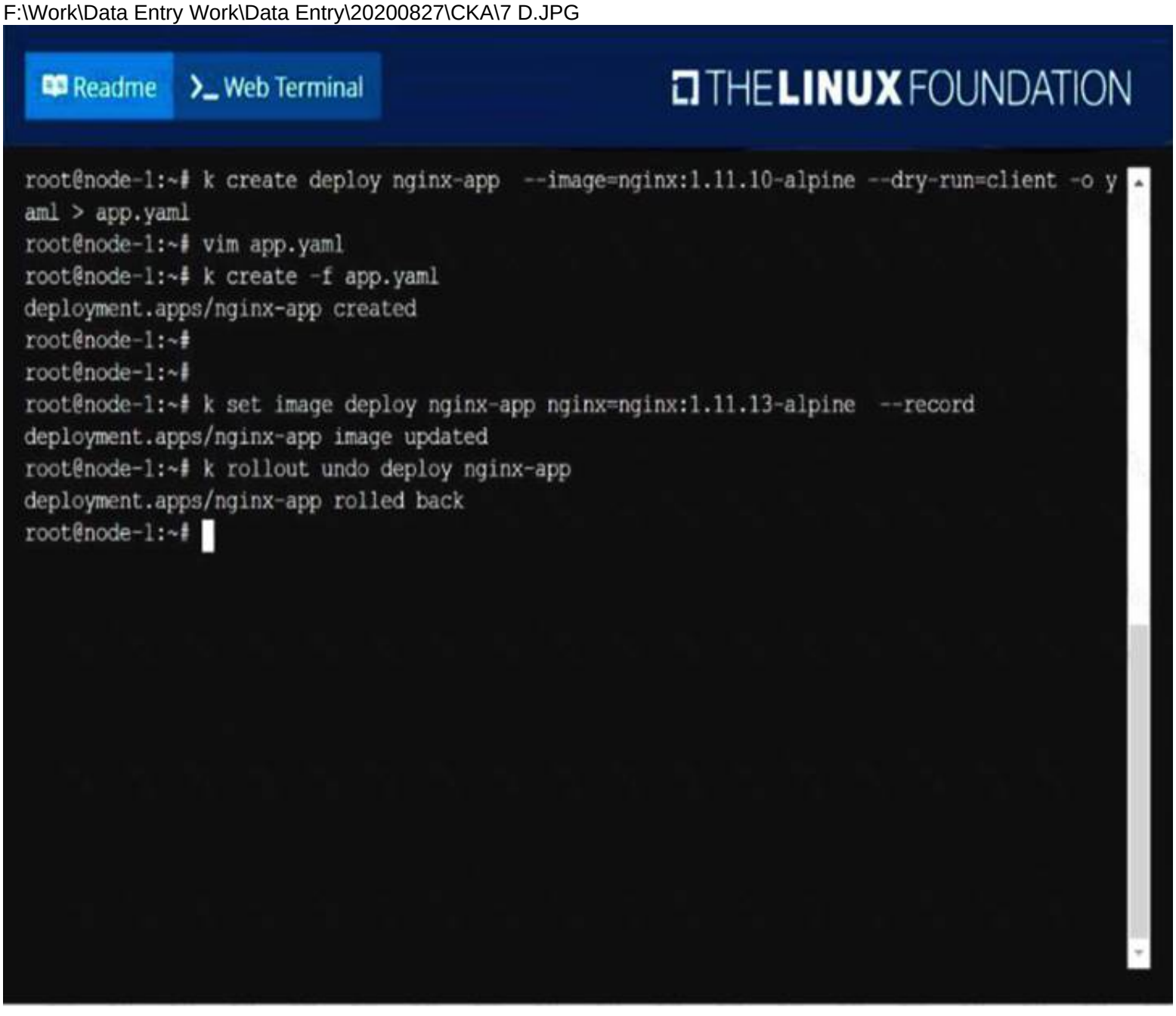

NEW QUESTION 8
Create a deployment spec file that will:

- 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
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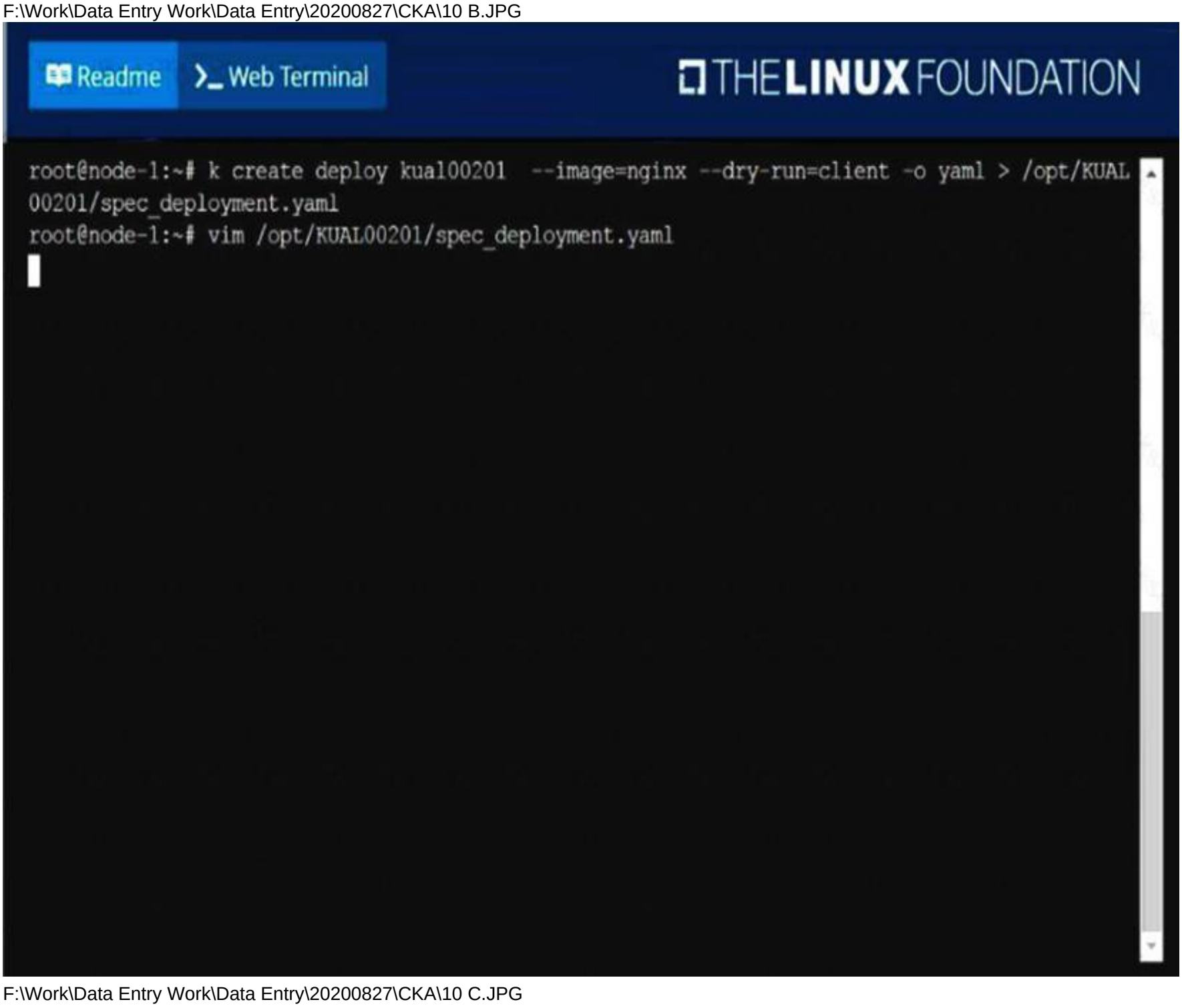

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NEW QUESTION 9
Score: 4%

Task
Schedule a pod as follows:
• Name: nginx-kusc00401
• Image: nginx
• Node selector: disk=ssd

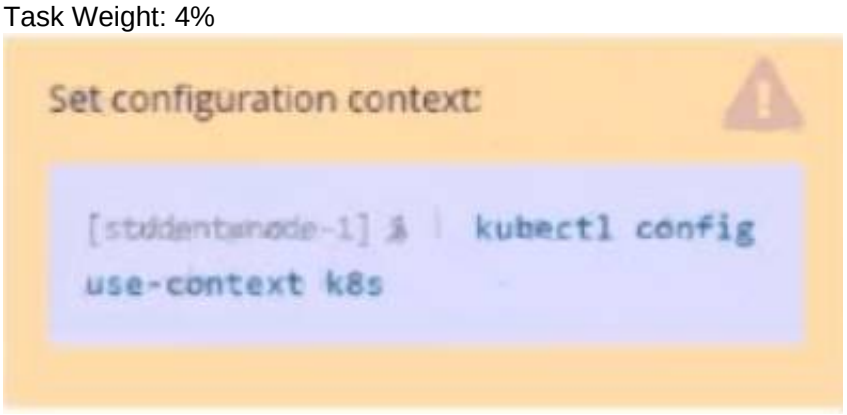
A. Mastered
B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 10
Task Weight: 4%



Task
Schedule a Pod as follows:
• Name: kucc1
• App Containers: 2
• Container Name/Images: o nginx
o consul

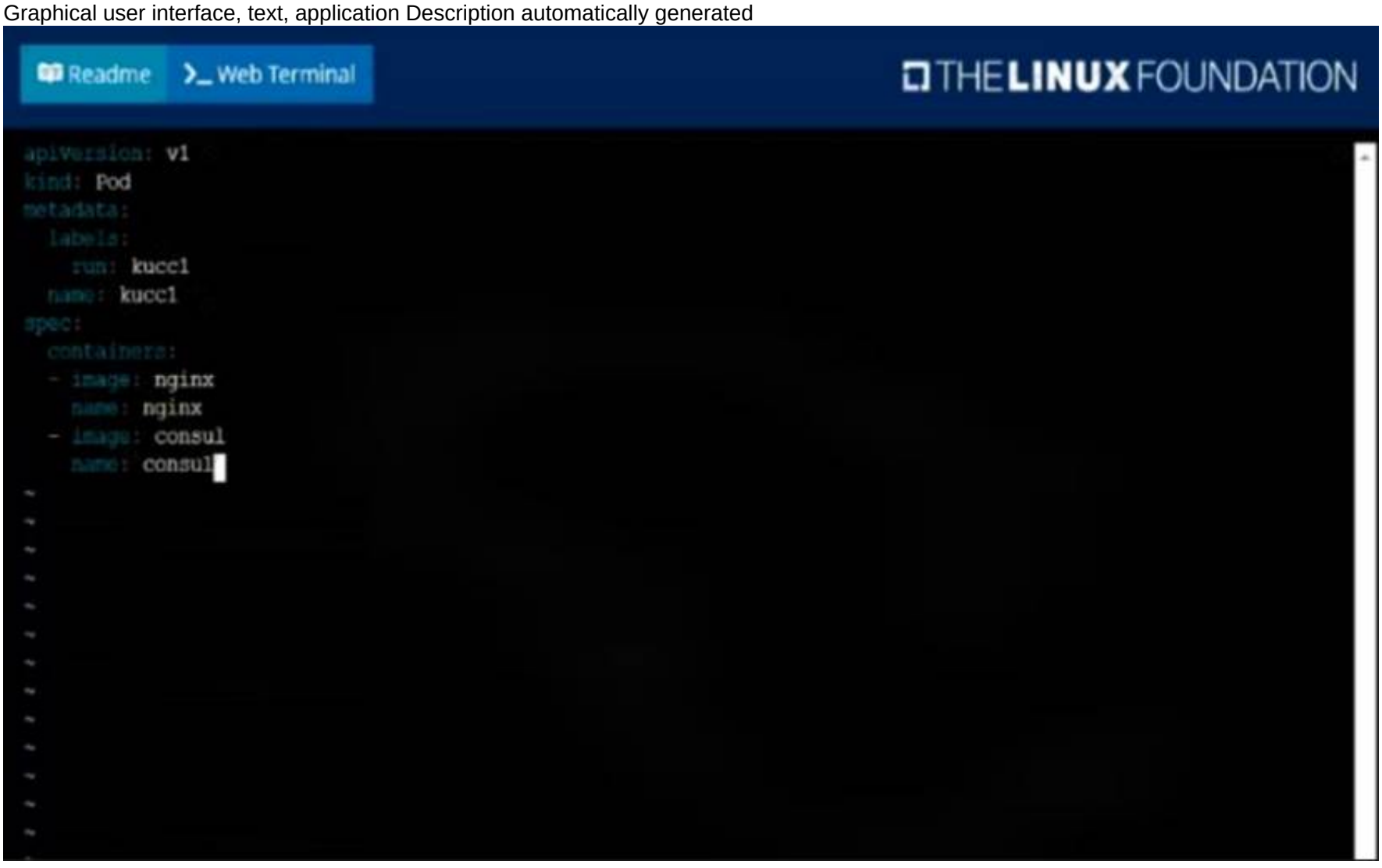
A. Mastered
B. Not Mastered

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



Text 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
11-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-84c89dfd75-2dljn  1/1     Running             0          6h38m
webserver-84c89dfd75-8d8x2  1/1     Running             0          6h38m
webserver-84c89dfd75-z5zz4  1/1     Running             0          3m51s
student@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 11
Check the image version in pod without the describe command

A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 12
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
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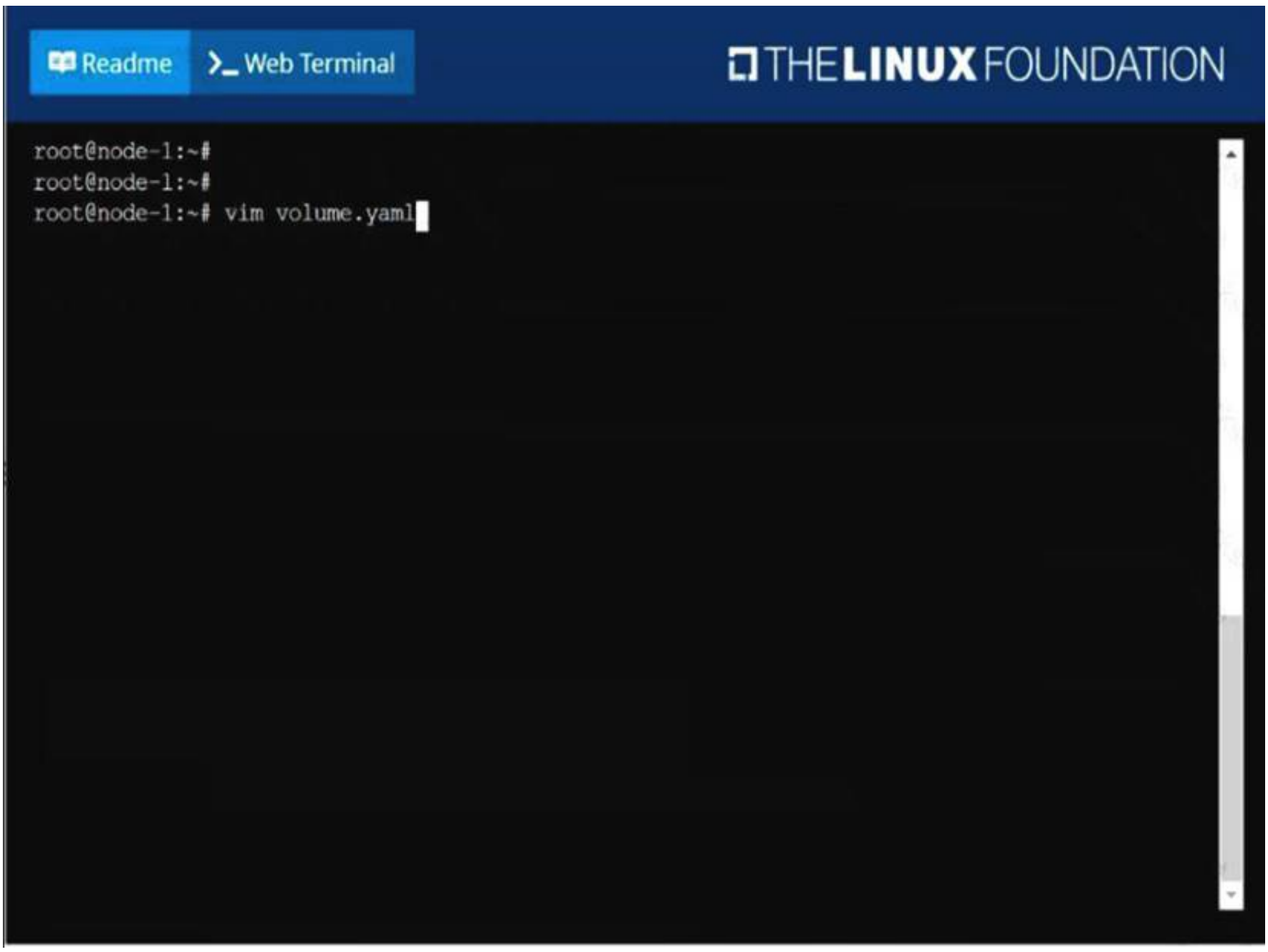

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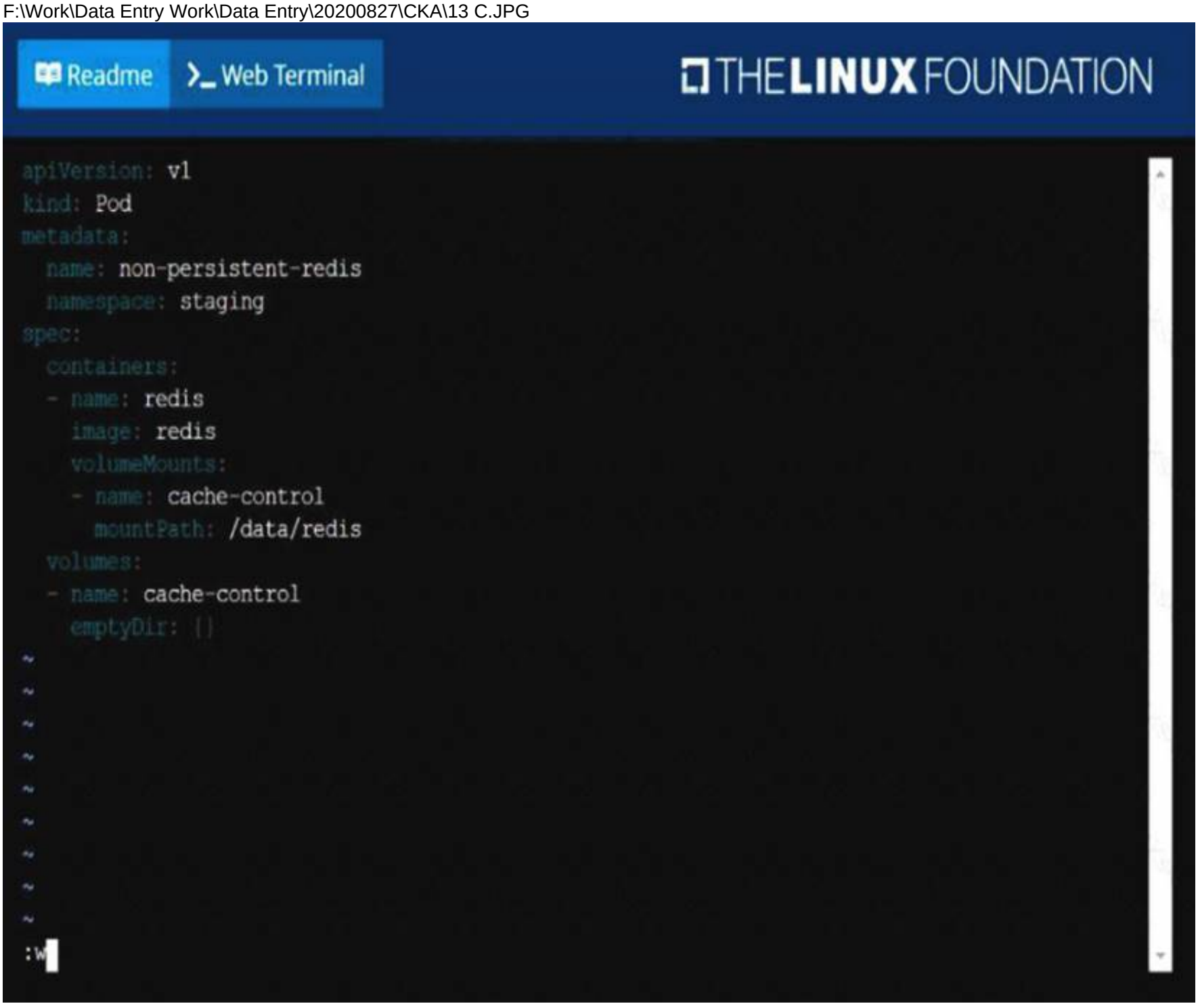

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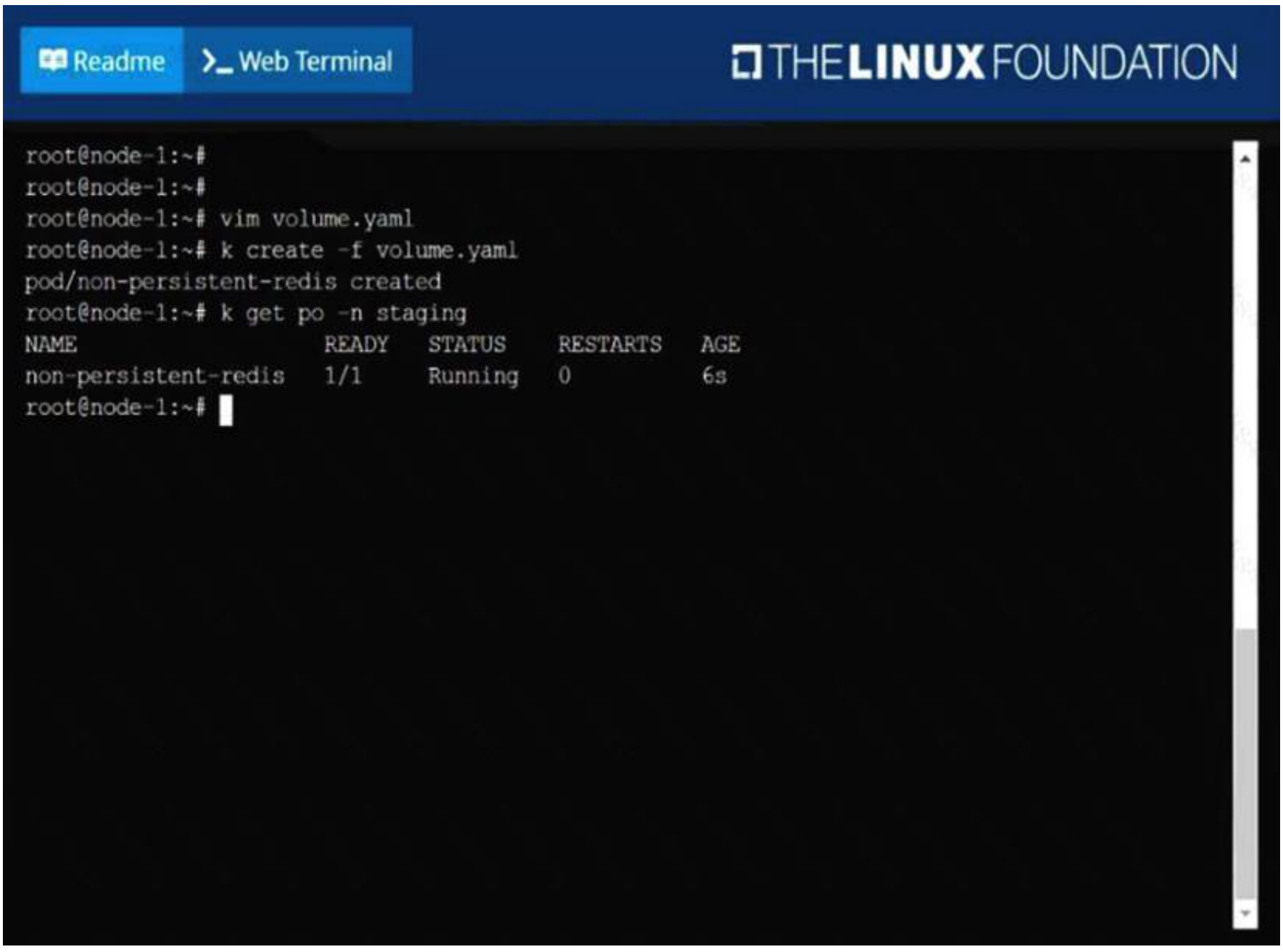


NEW QUESTION 14
Create a pod with environment variables as var1=value1.Check the environment variable in pod

A. Mastered
B. Not Mastered

Answer: A

Explanation:
kubectl run nginx --image=nginx --restart=Never --env=var1=value1
then
kubectl exec -it nginx -- env
or
kubectl exec -it nginx -- sh -c 'echo $var1'
or
kubectl describe po nginx | grep value1

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 23
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 28
List all the pods sorted by name

A. Mastered
B. Not Mastered

Answer: A

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

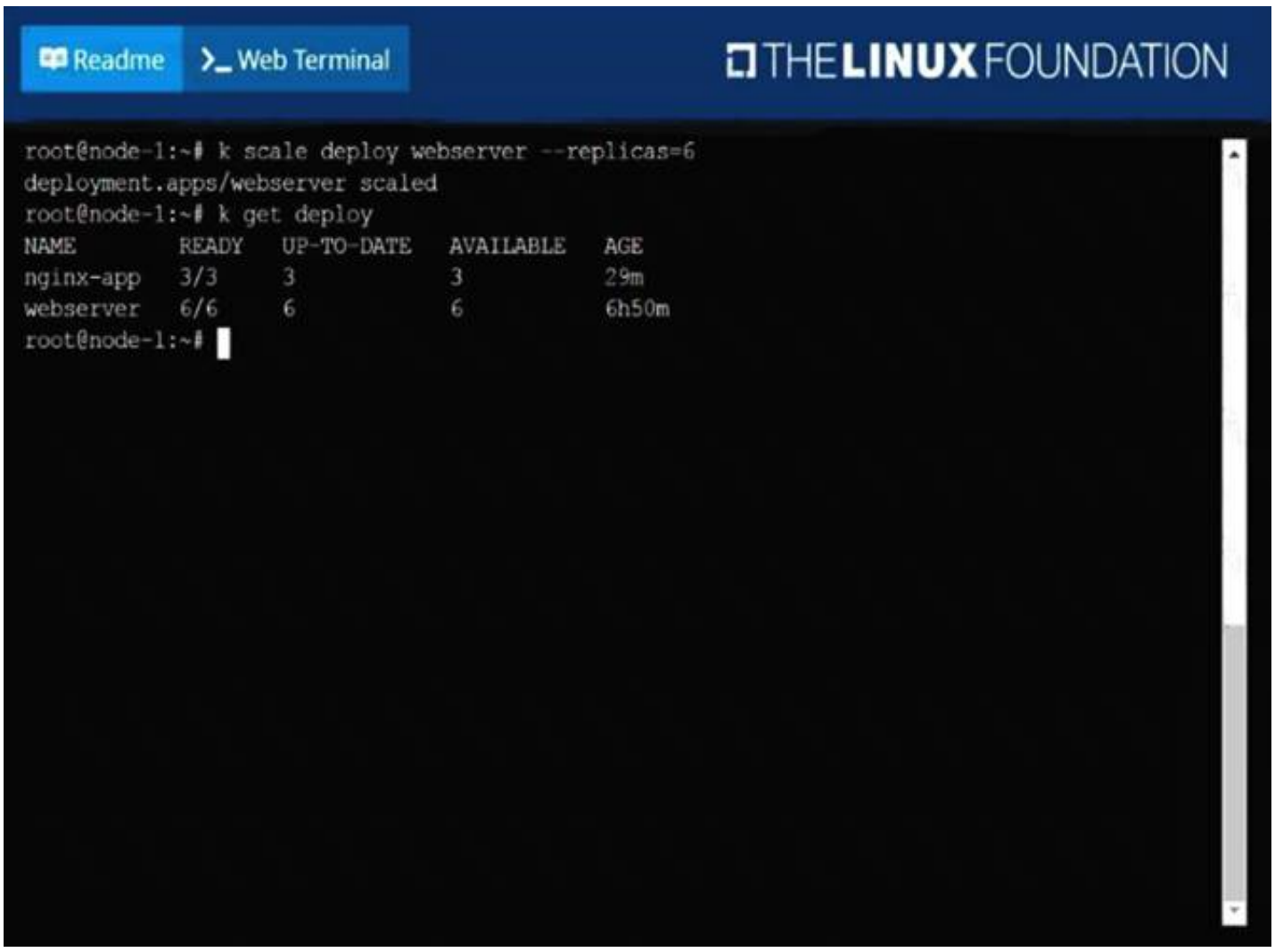
NEW QUESTION 32
Scale the deployment webserver to 6 pods.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

solution
F:\Work\Data Entry Work\Data Entry\20200827\CKA\14 B.JPG



NEW QUESTION 36
Create a deployment as follows:

- Name: nginx-random
- Exposed via a service nginx-random
- Ensure that the service & pod are accessible via their respective DNS records
- The container(s) within any pod(s) running as a part of this deployment should use the nginx Image

Next, use the utility nslookup to look up the DNS records of the service & pod and write the output to /opt/KUNW00601/service.dns and /opt/KUNW00601/pod.dns respectively.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Solution:
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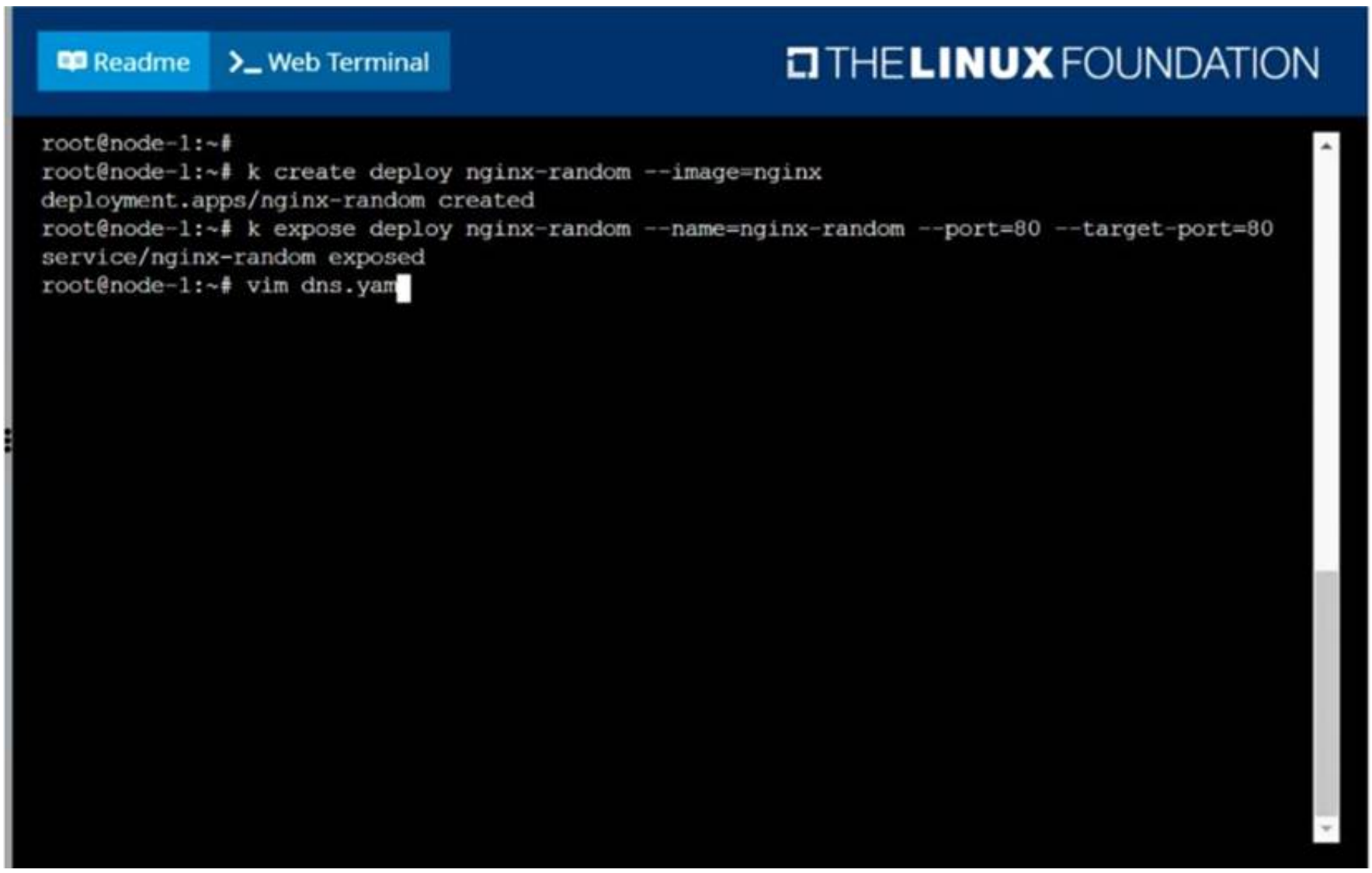

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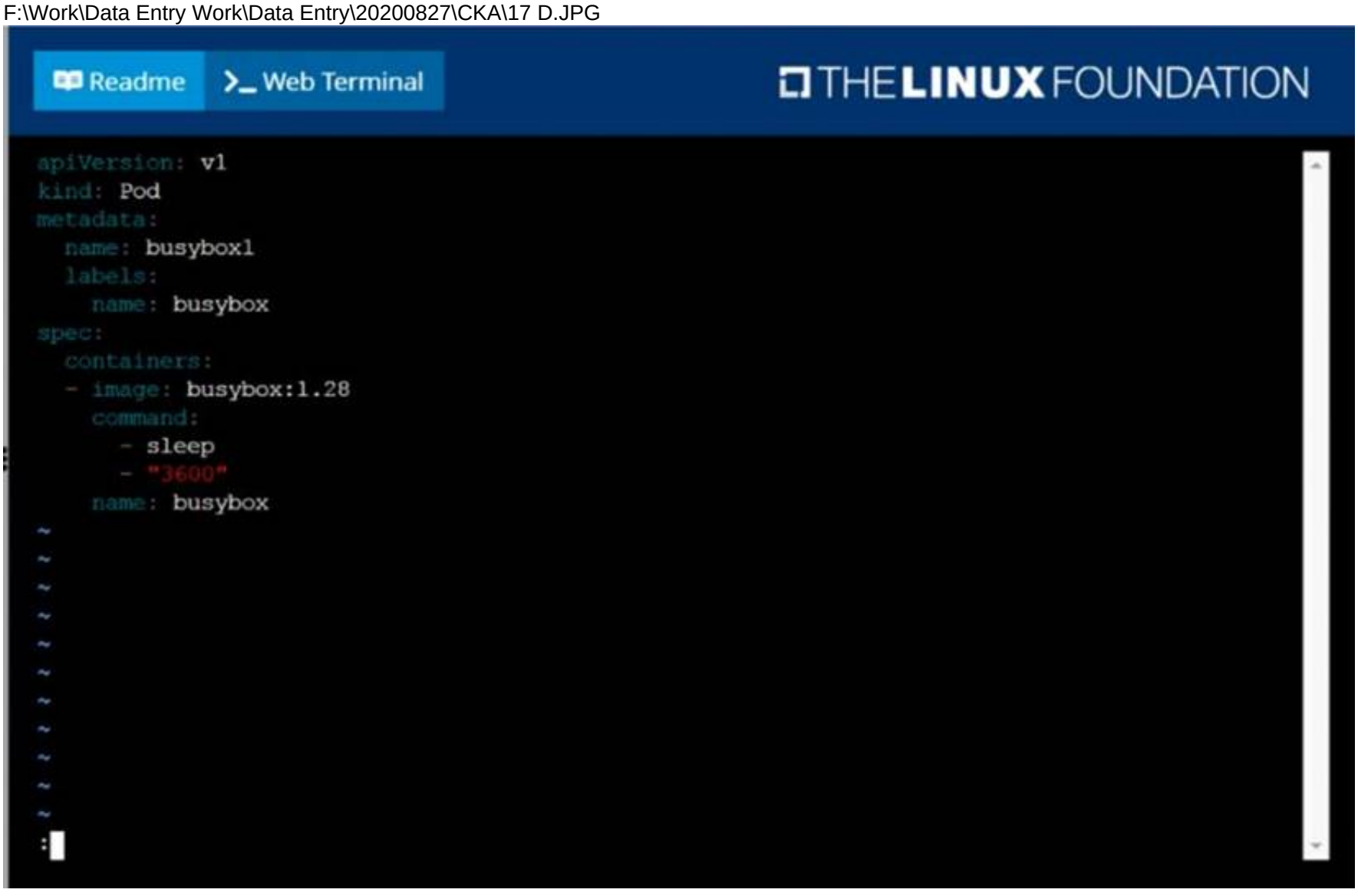
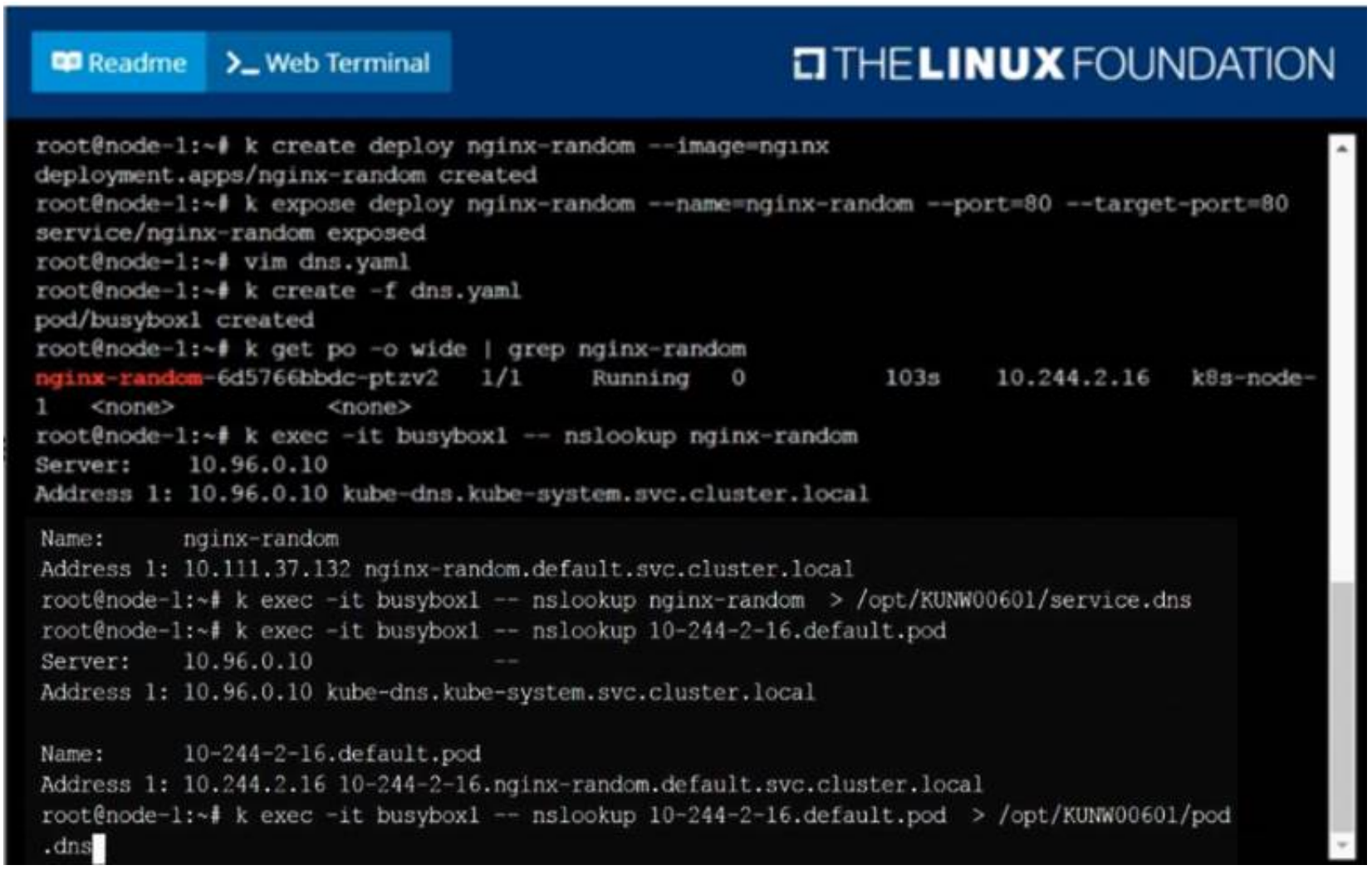


F:\Work\Data Entry Work\Data Entry\20200827\CKA\17 E.JPG



NEW QUESTION 37
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 41
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

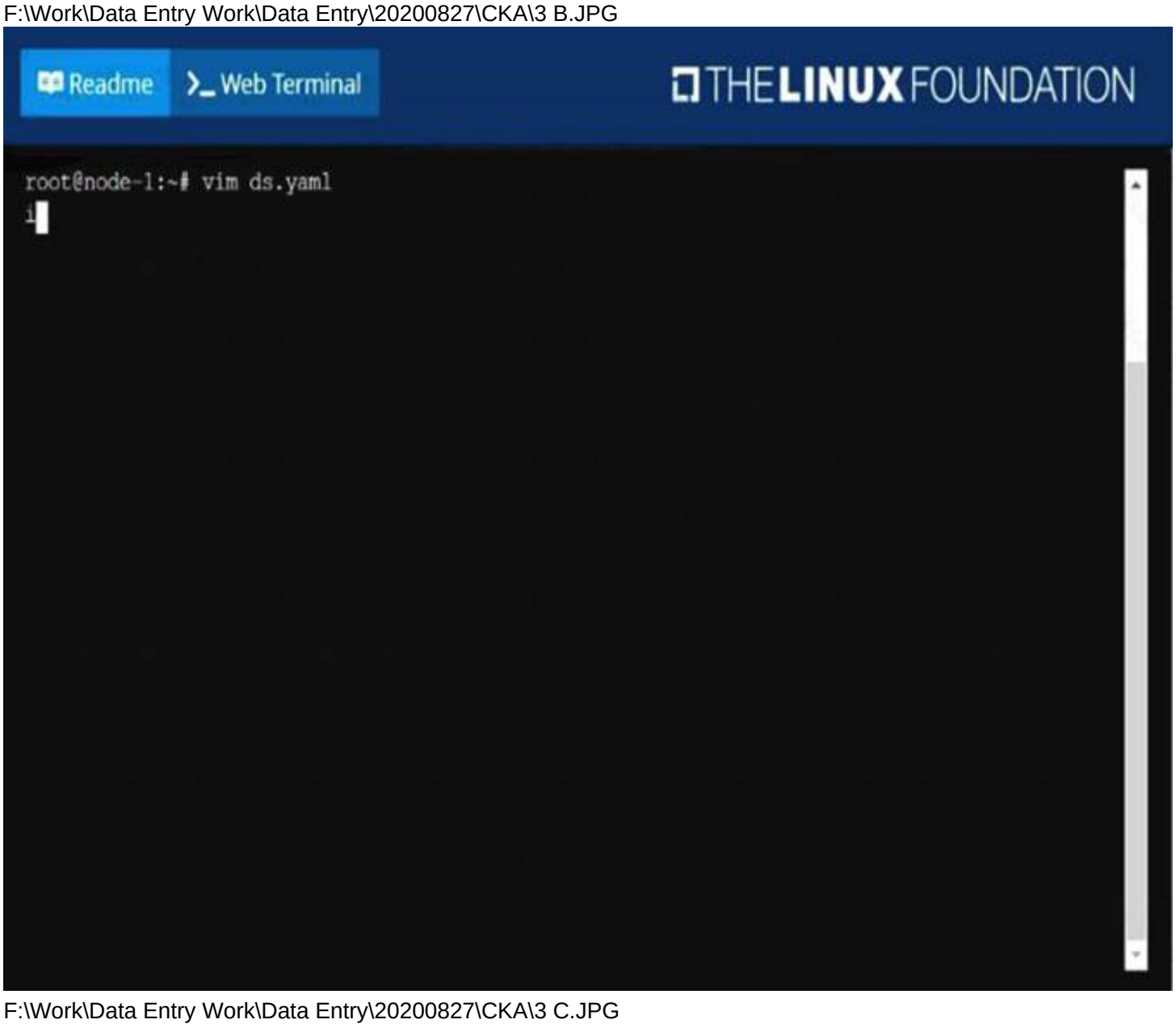
NEW QUESTION 43
Ensure a single instance of pod nginx is running on each node of the Kubernetes cluster where nginx also represents the Image name which has to be used. Do not override any taints currently in place.
Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

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



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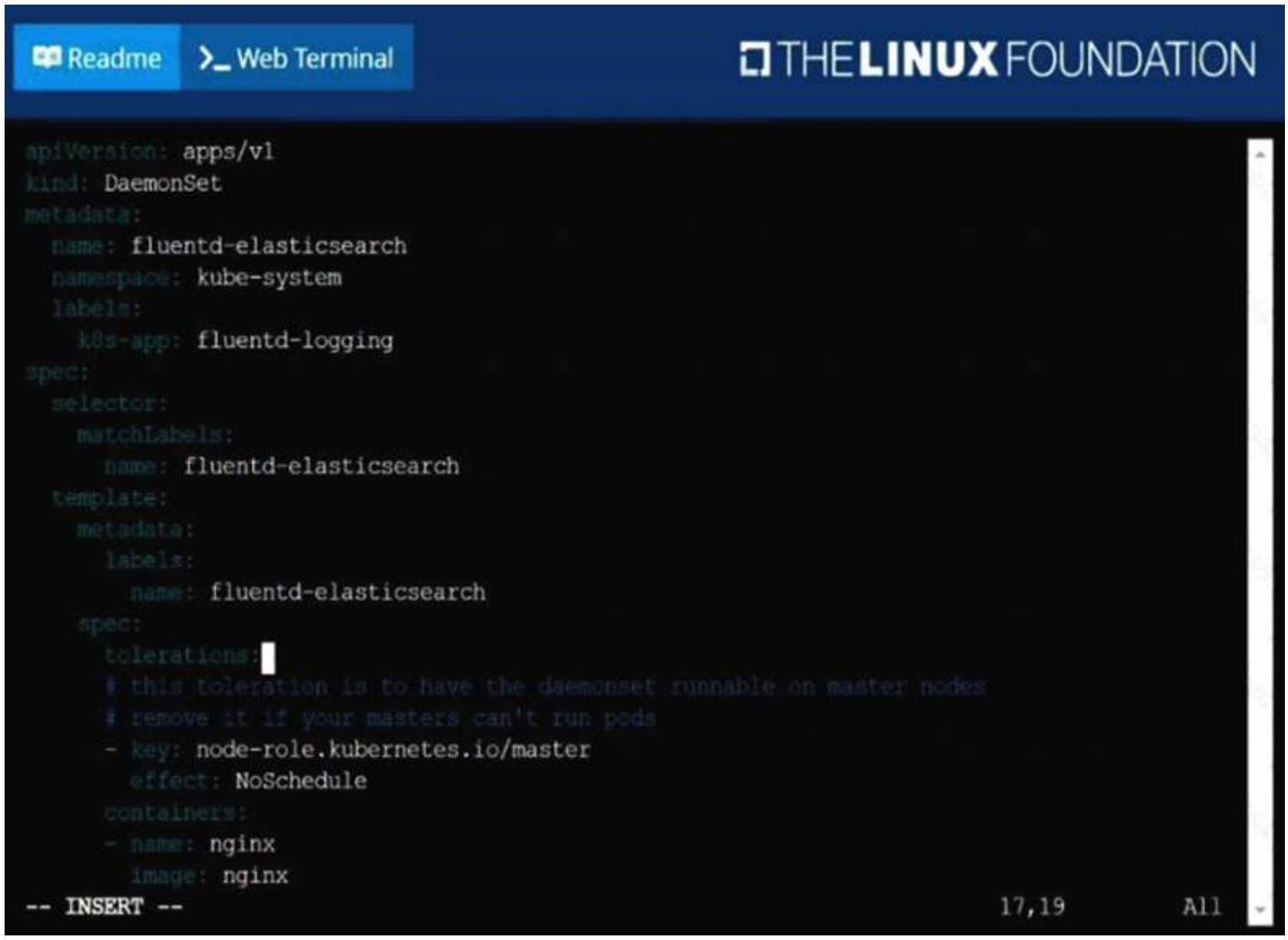

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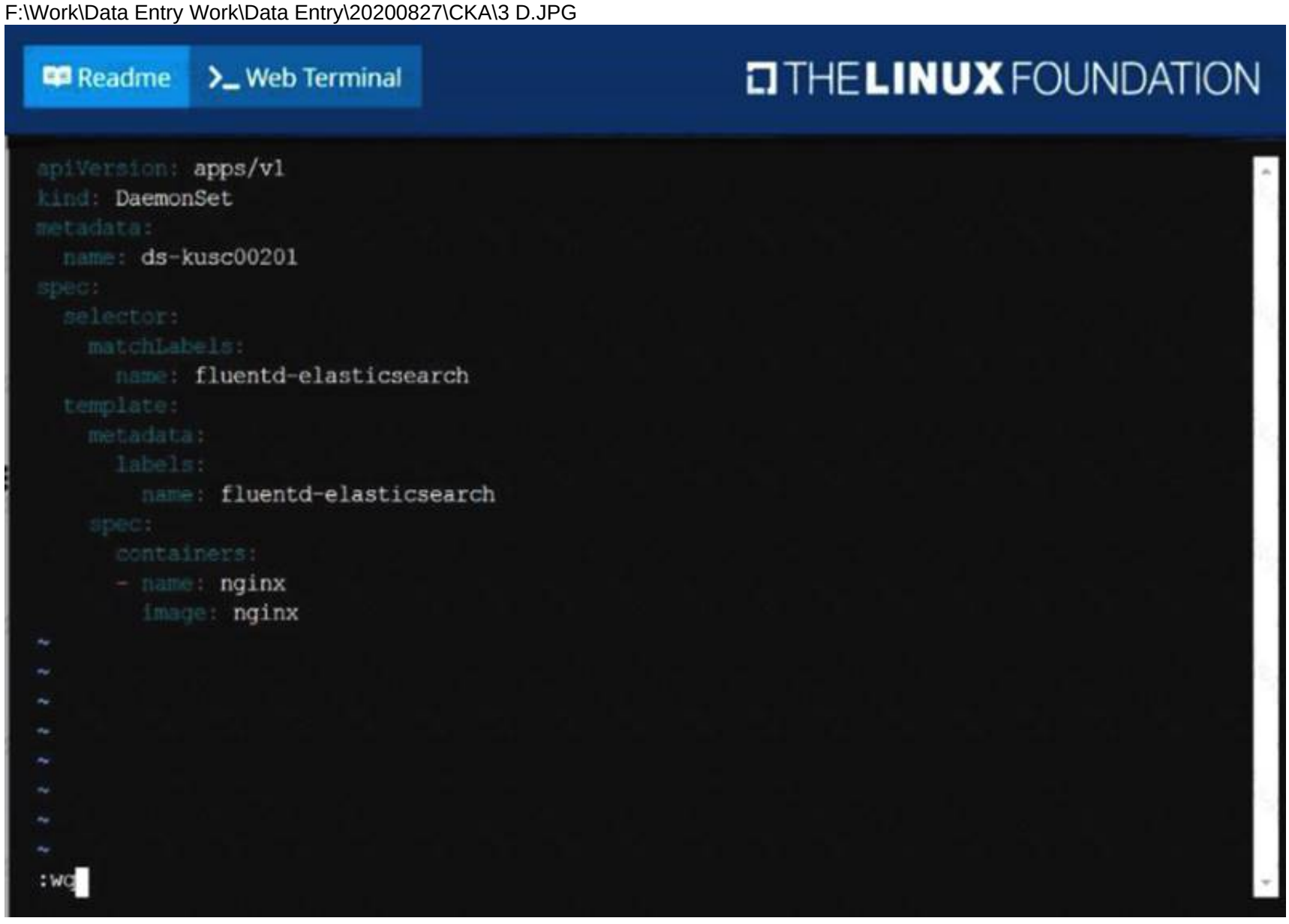

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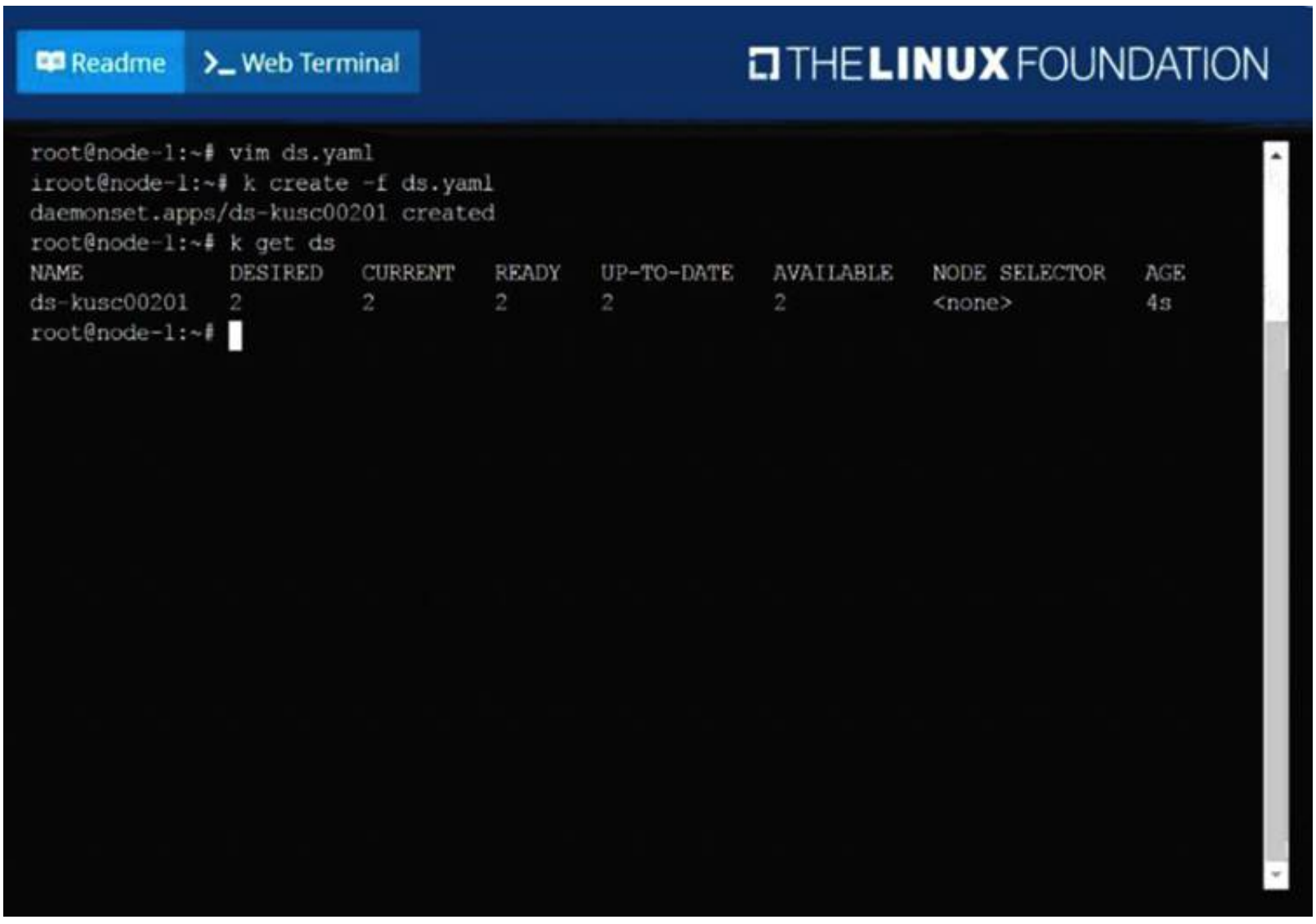


NEW QUESTION 47
List “nginx-dev” and “nginx-prod” pod and delete those pods

A. Mastered
B. Not Mastered

Answer: A

Explanation:
kubect1 get pods -o wide
kubectl delete po “nginx-dev”kubectl delete po “nginx-prod”

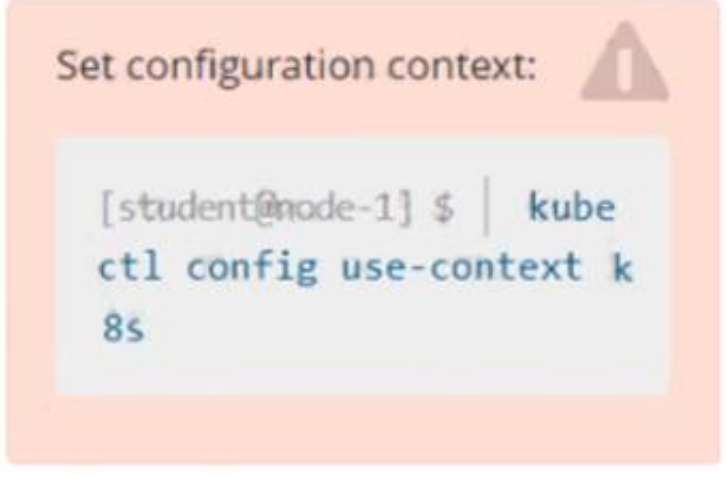
NEW QUESTION 50
Create a nginx pod with label env=test in engineering namespace

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 52
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 lo 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 54
.....

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