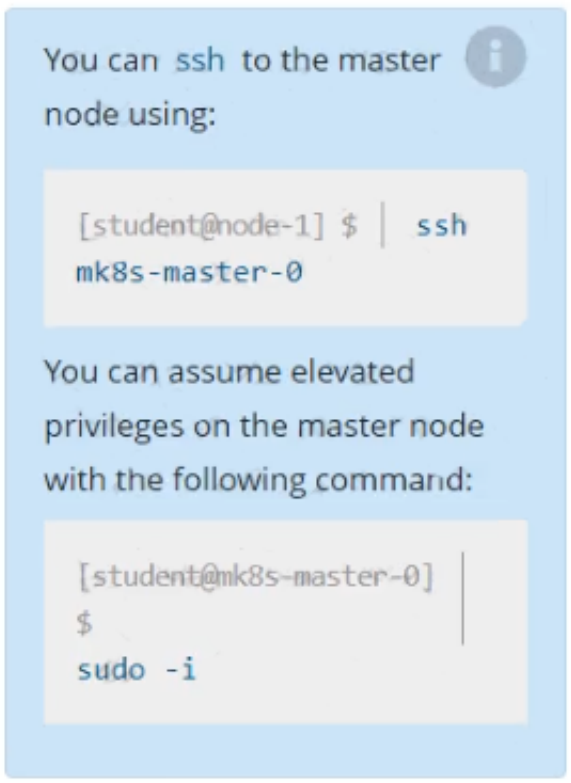
Linux-Foundation

Exam Questions CKA

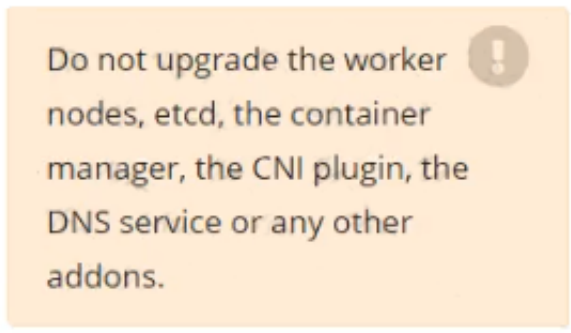
Certified Kubernetes Administrator (CKA) Program

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
Schedule a pod as follows:
- Name: nginx-kusc00101
- Image: nginx
- Node selector: disk=ssd

A. Mastered
B. Not Mastered

Answer: A

Explanation:

solution
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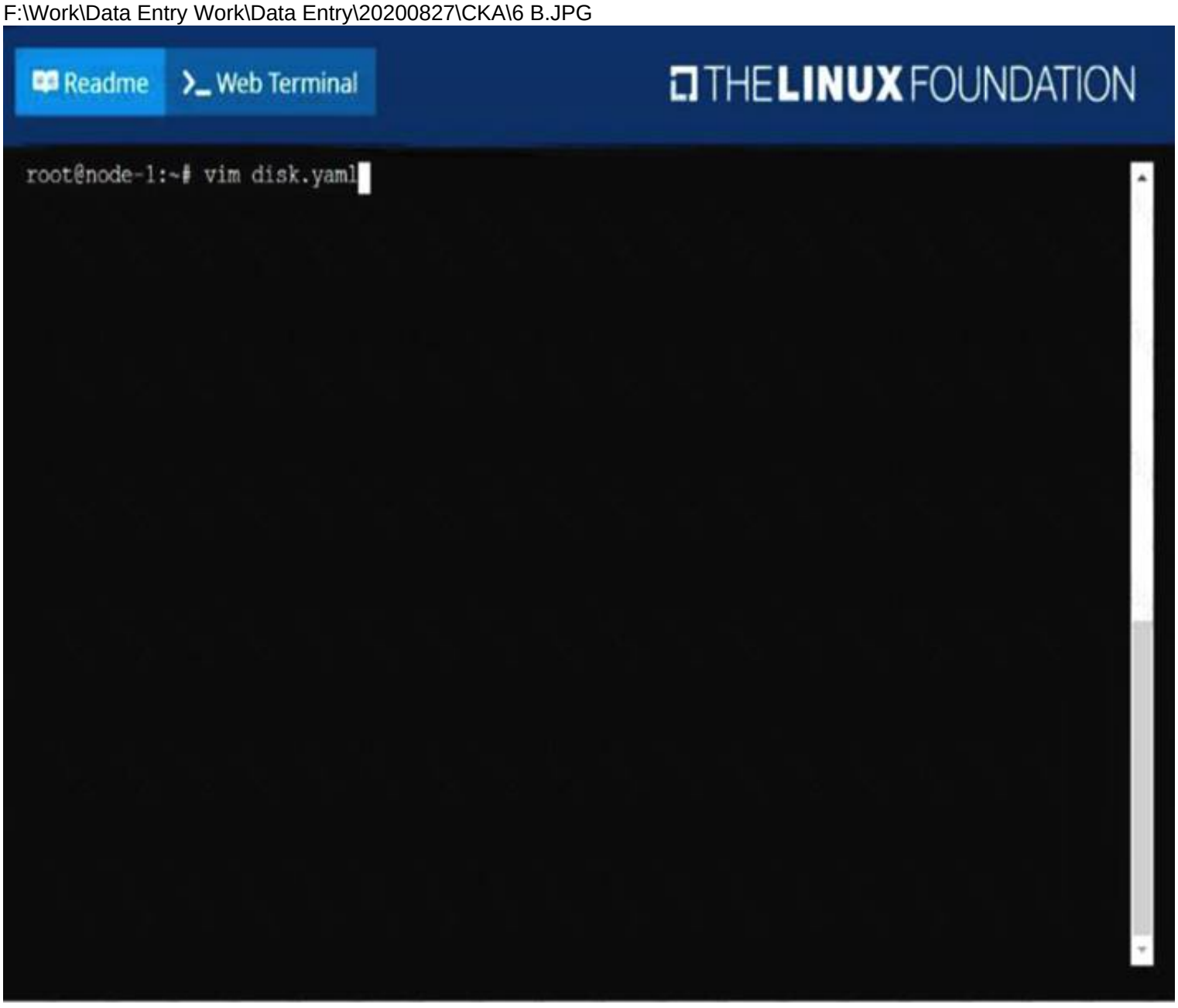

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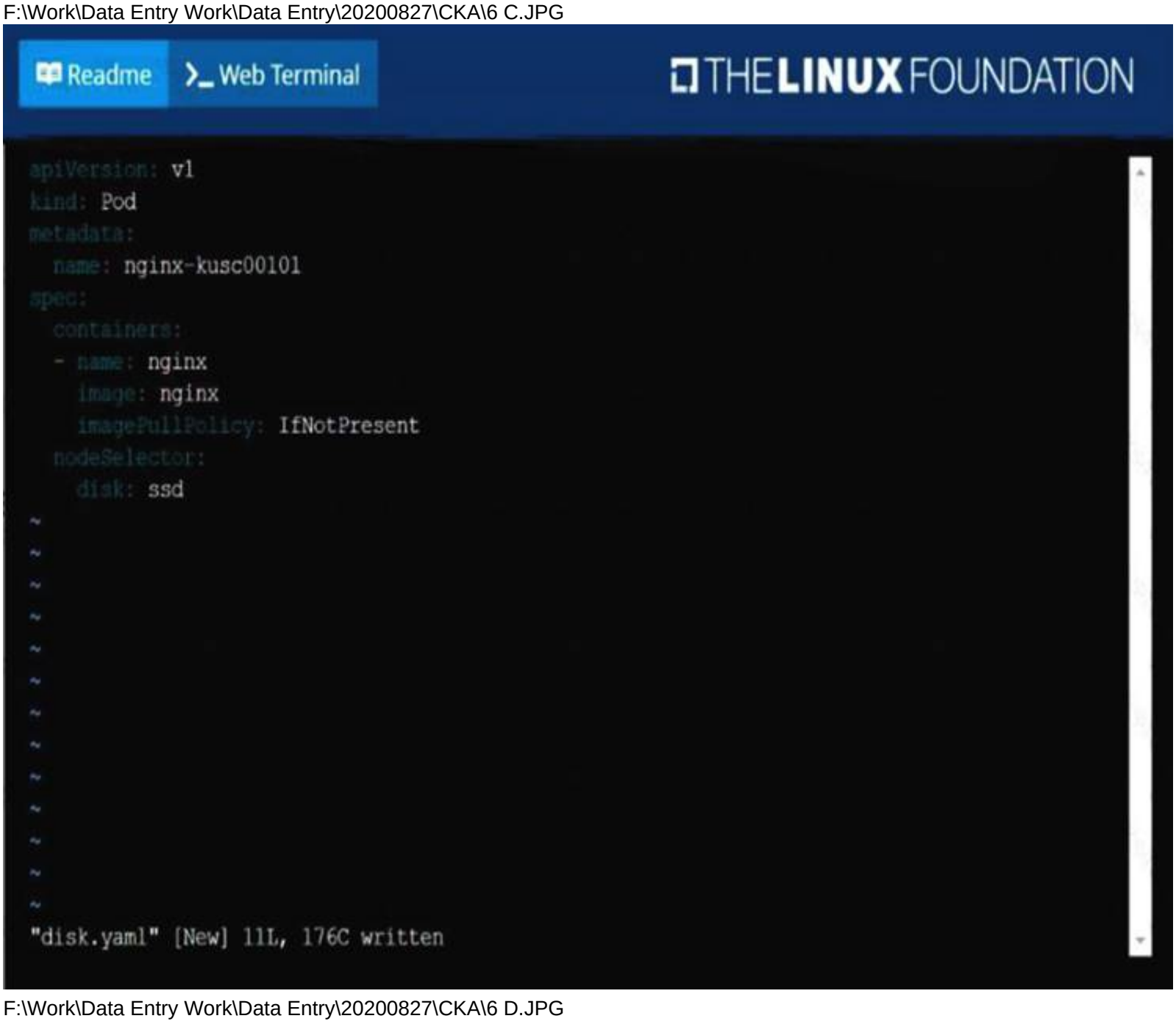

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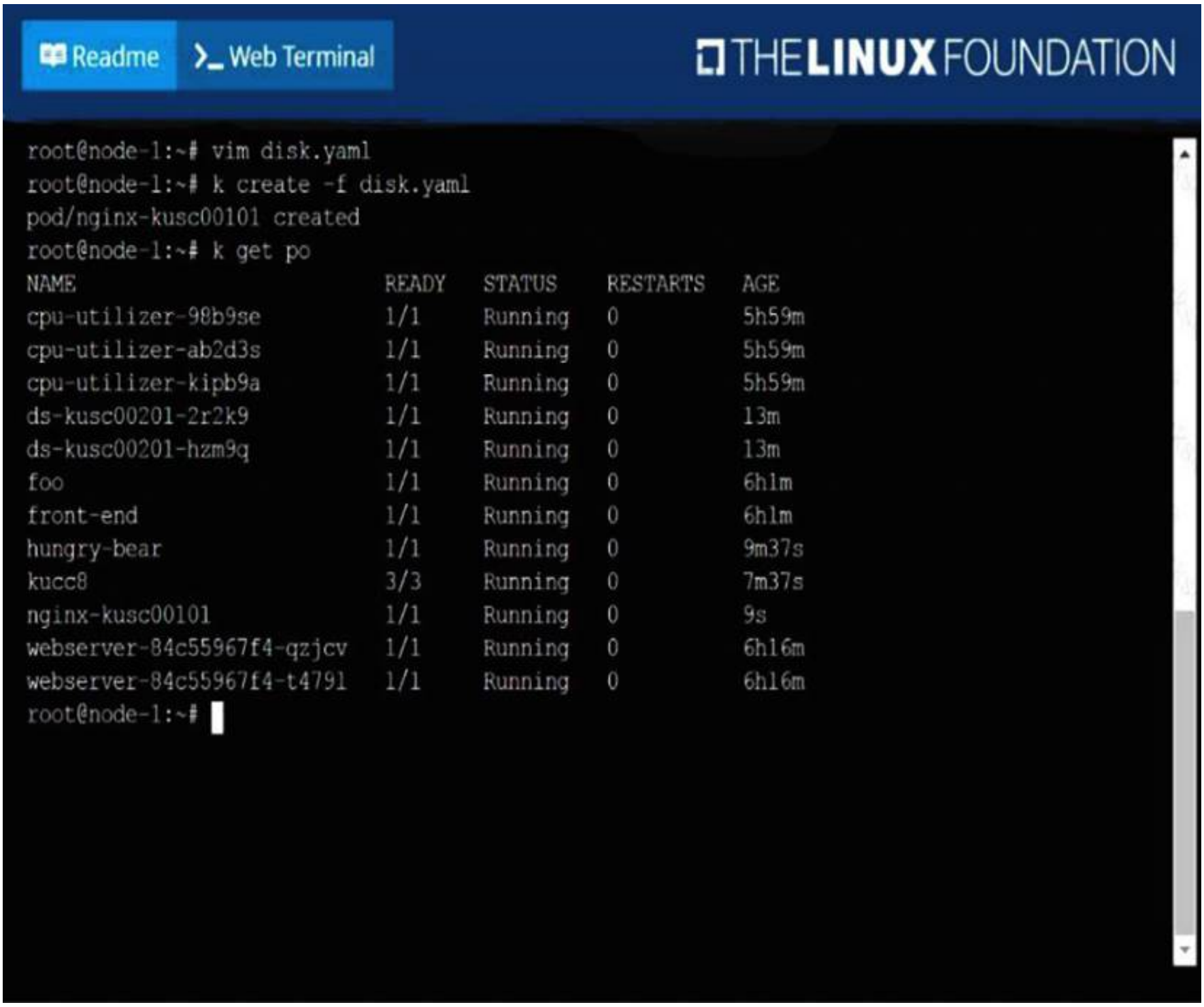


NEW QUESTION 3
List the nginx pod with custom columns POD_NAME and POD_STATUS

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 4
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

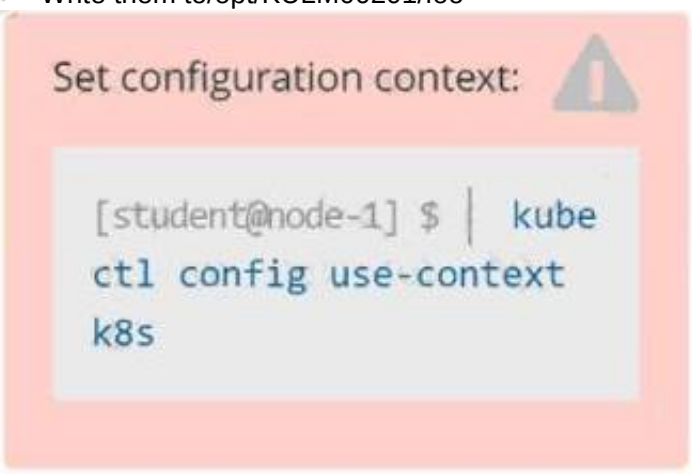
Answer: A

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 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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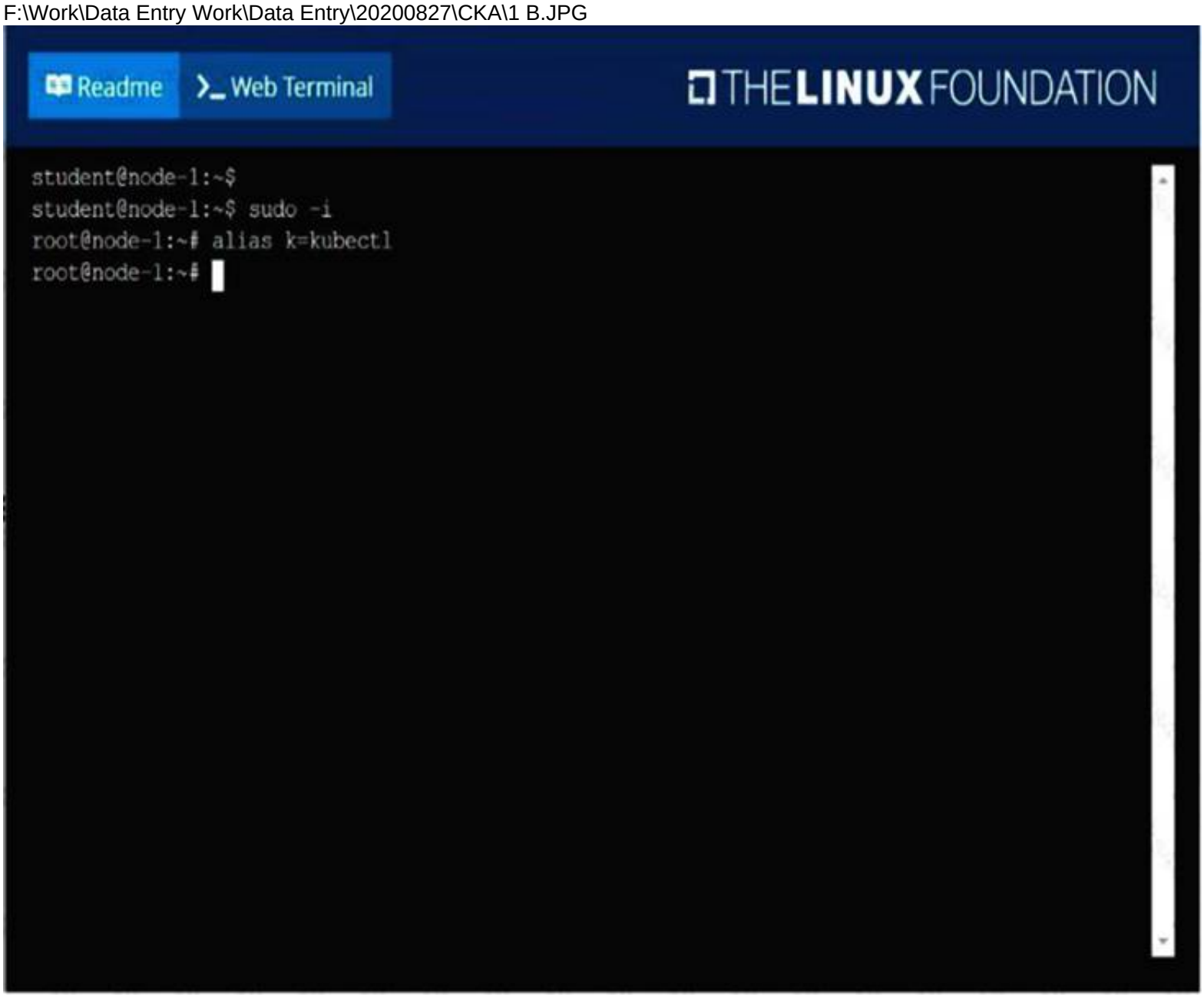

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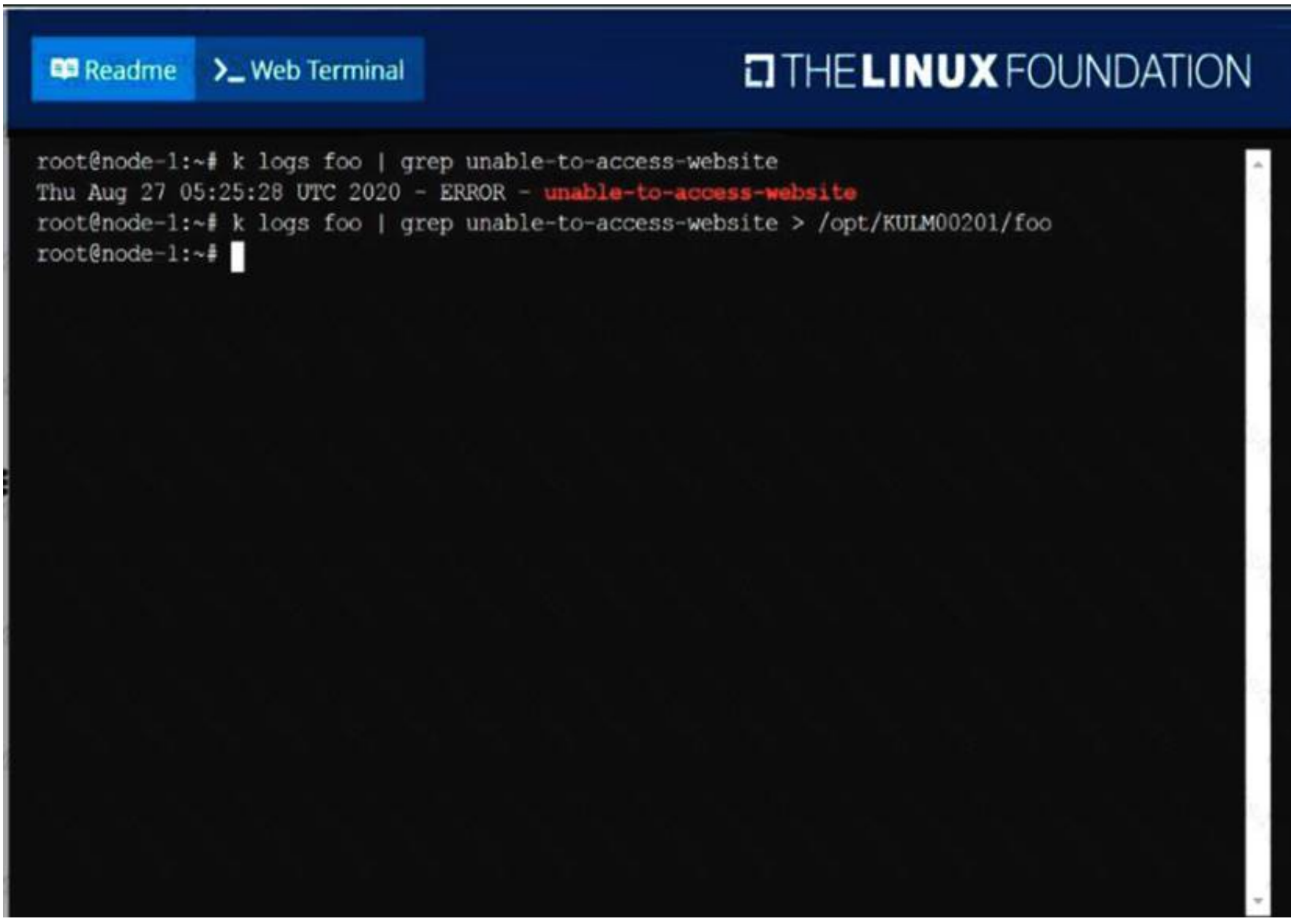

NEW QUESTION 6
Check to see how many worker nodes are ready (not including nodes tainted NoSchedule) and write the number to /opt/KUCC00104/kucc00104.txt.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution
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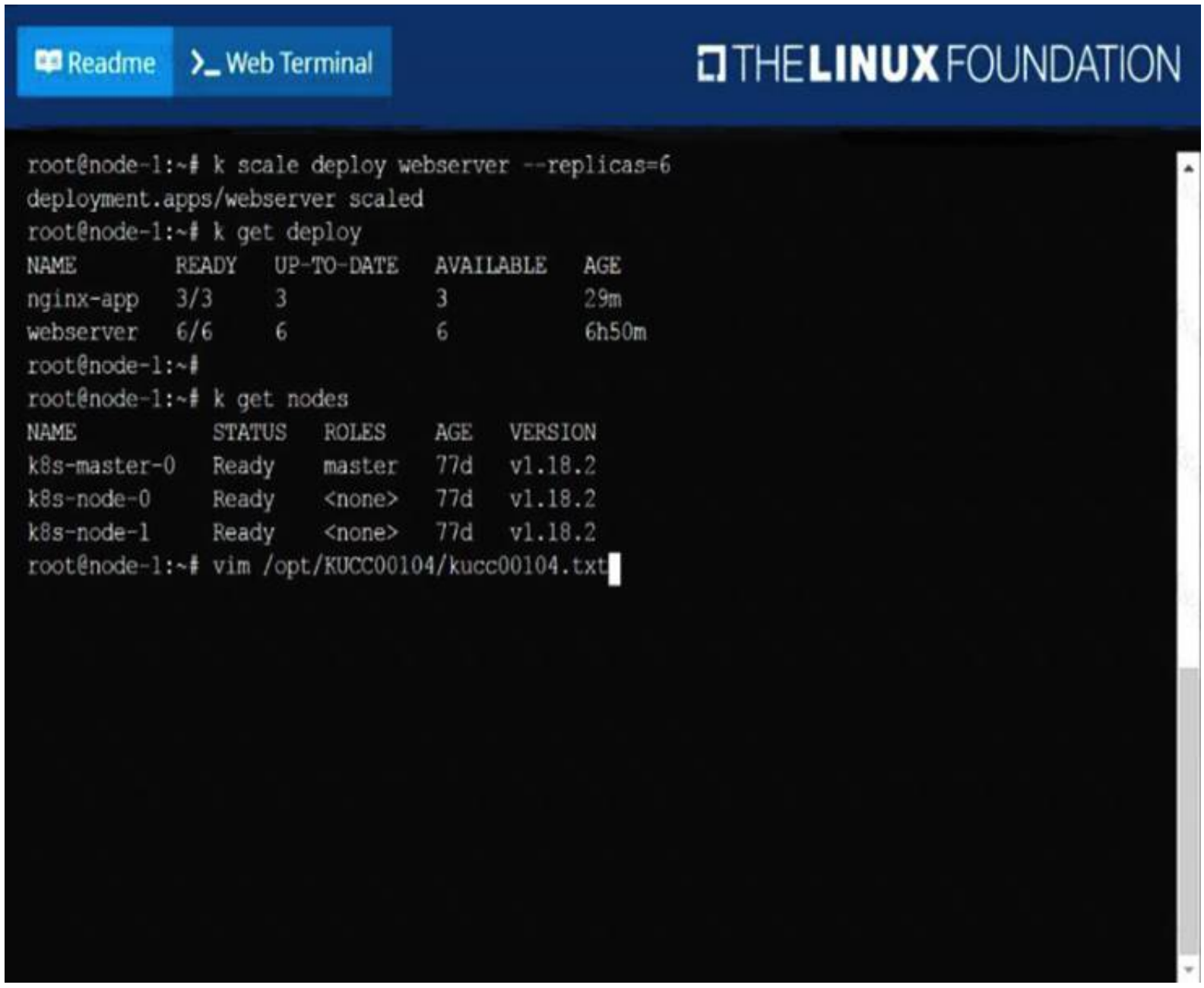

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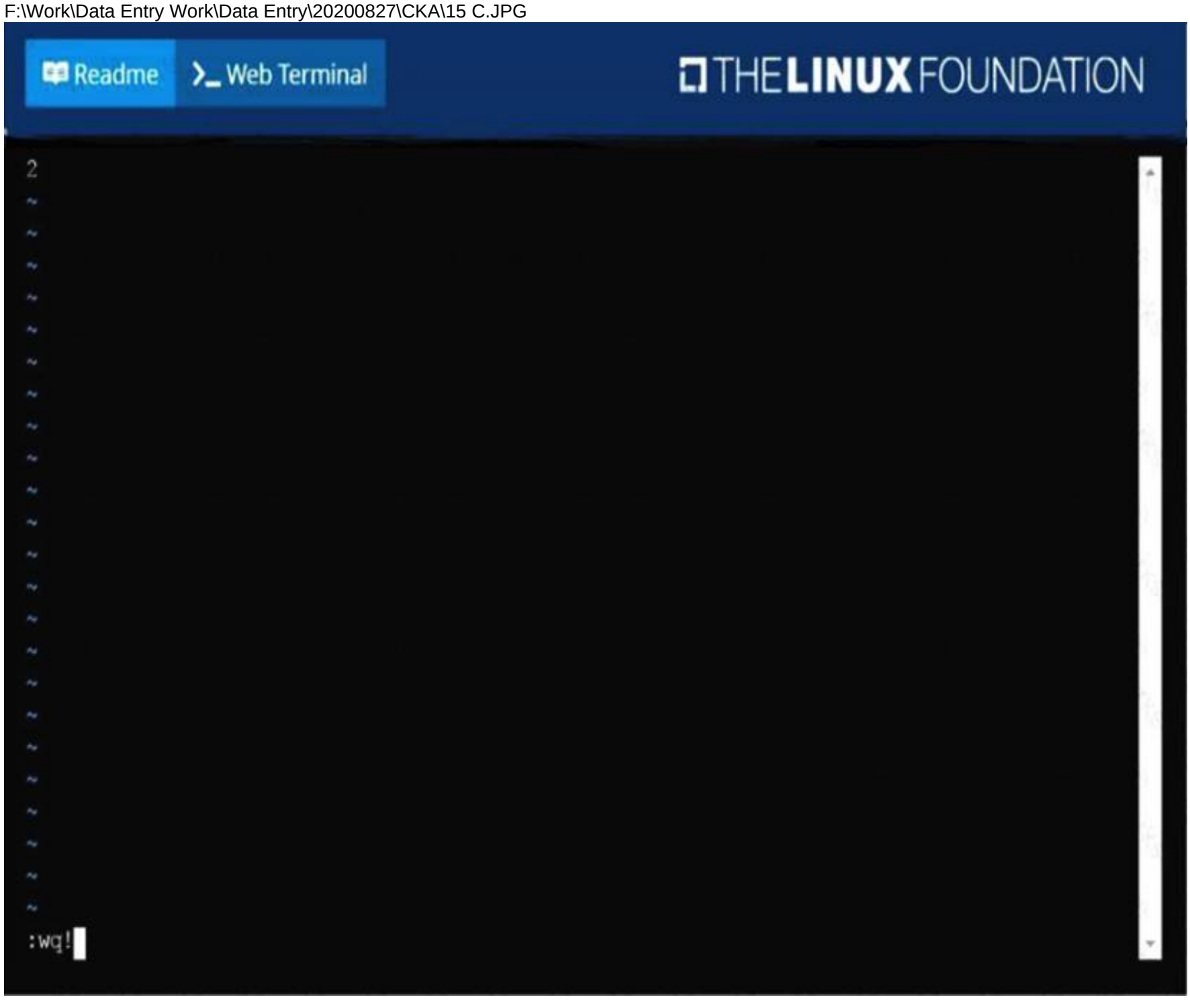


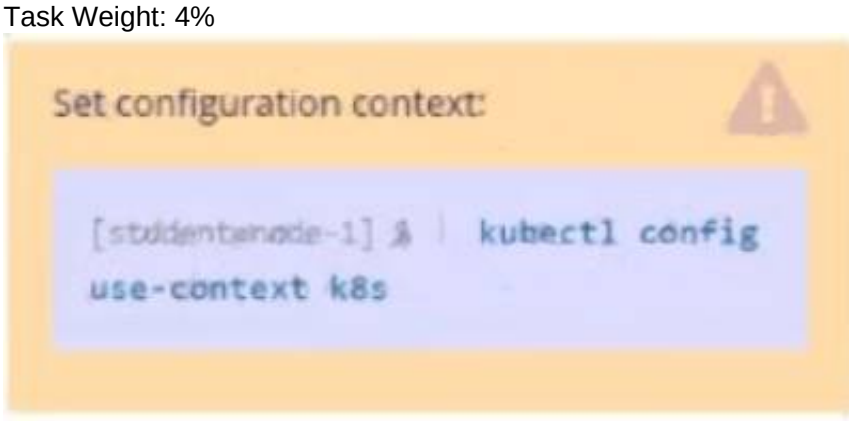
NEW QUESTION 7
Check the image version in pod without the describe command

A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 8
Task Weight: 4%

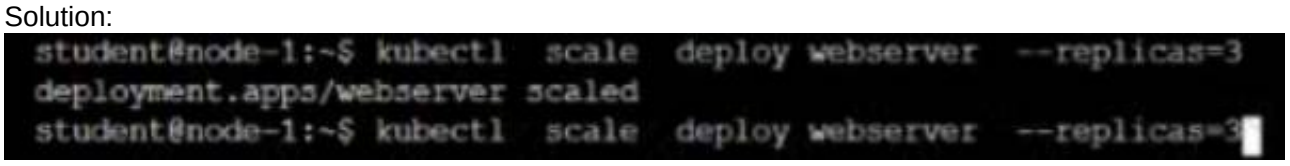


Task
Scale the deployment webserver to 3 pods.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution:



NEW QUESTION 9
List all the pods sorted by name

A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 10
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
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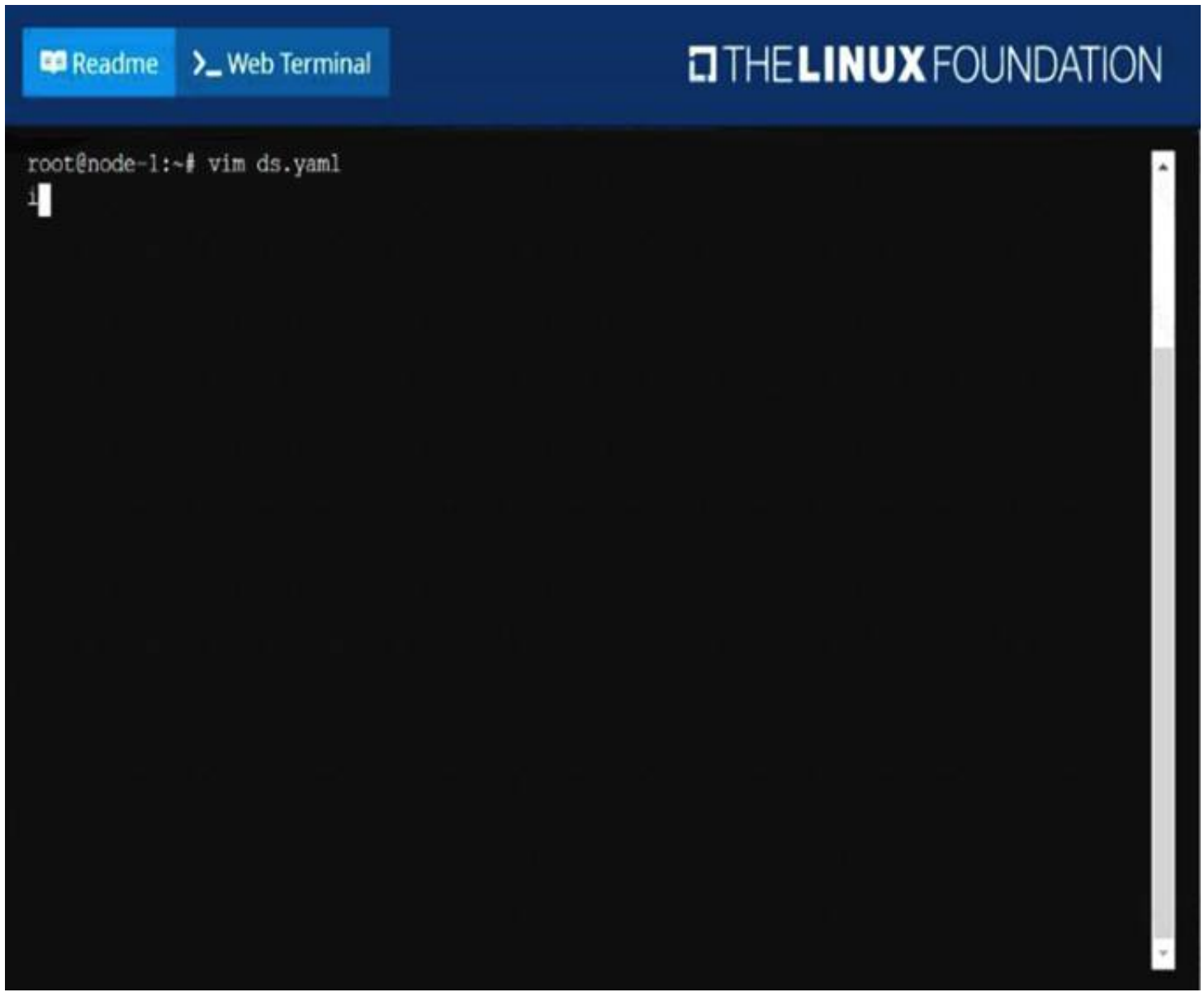

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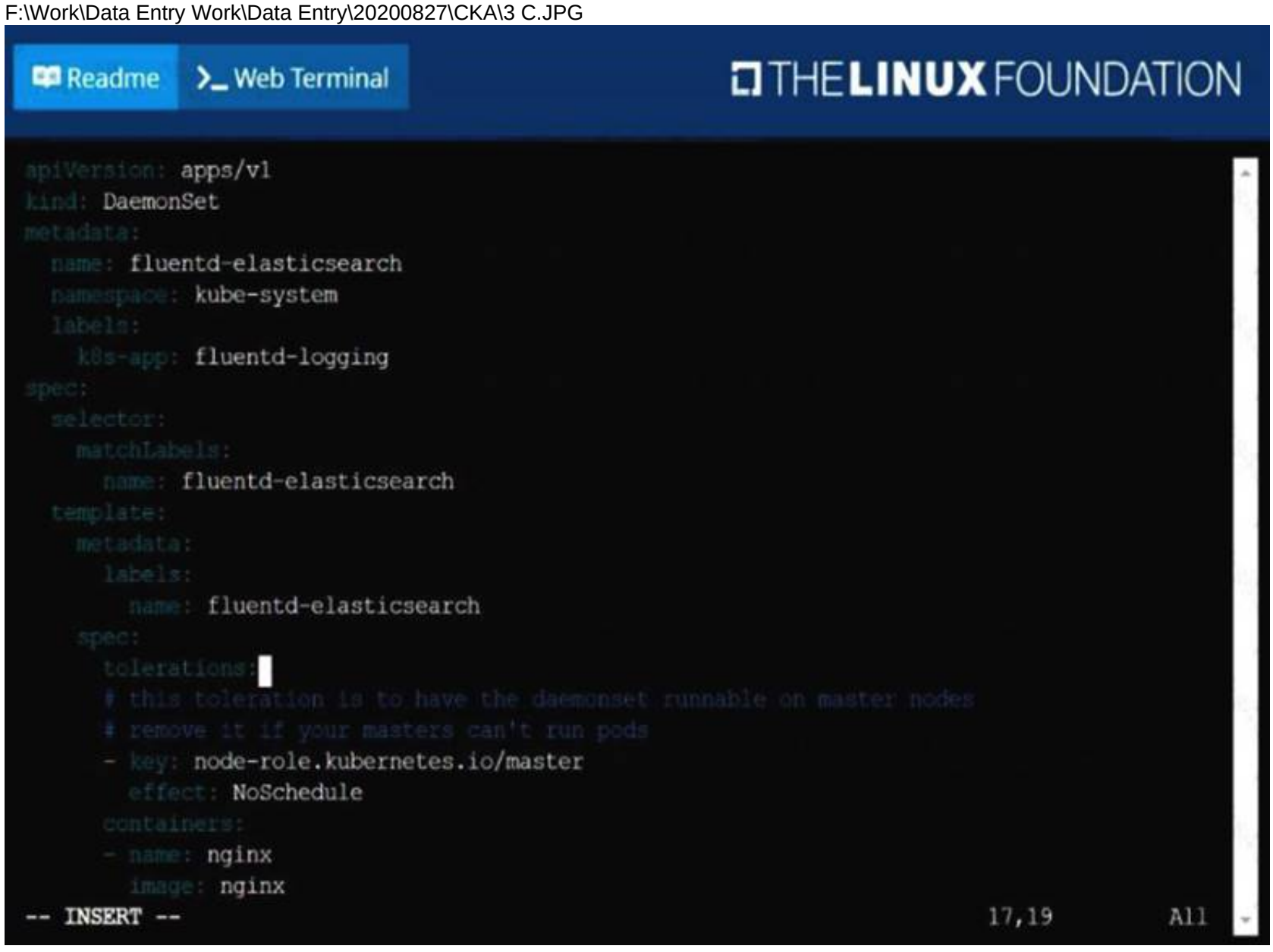

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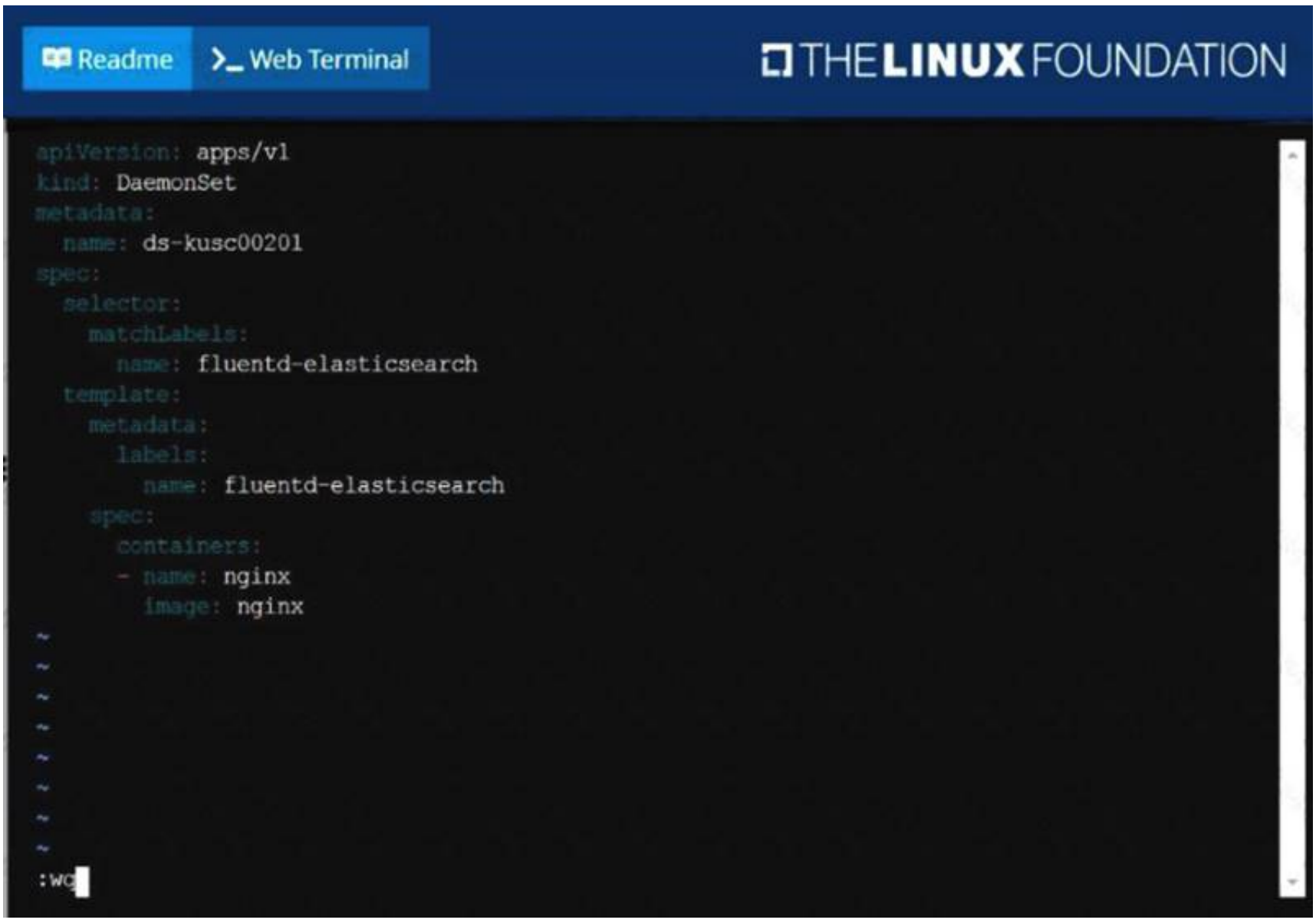

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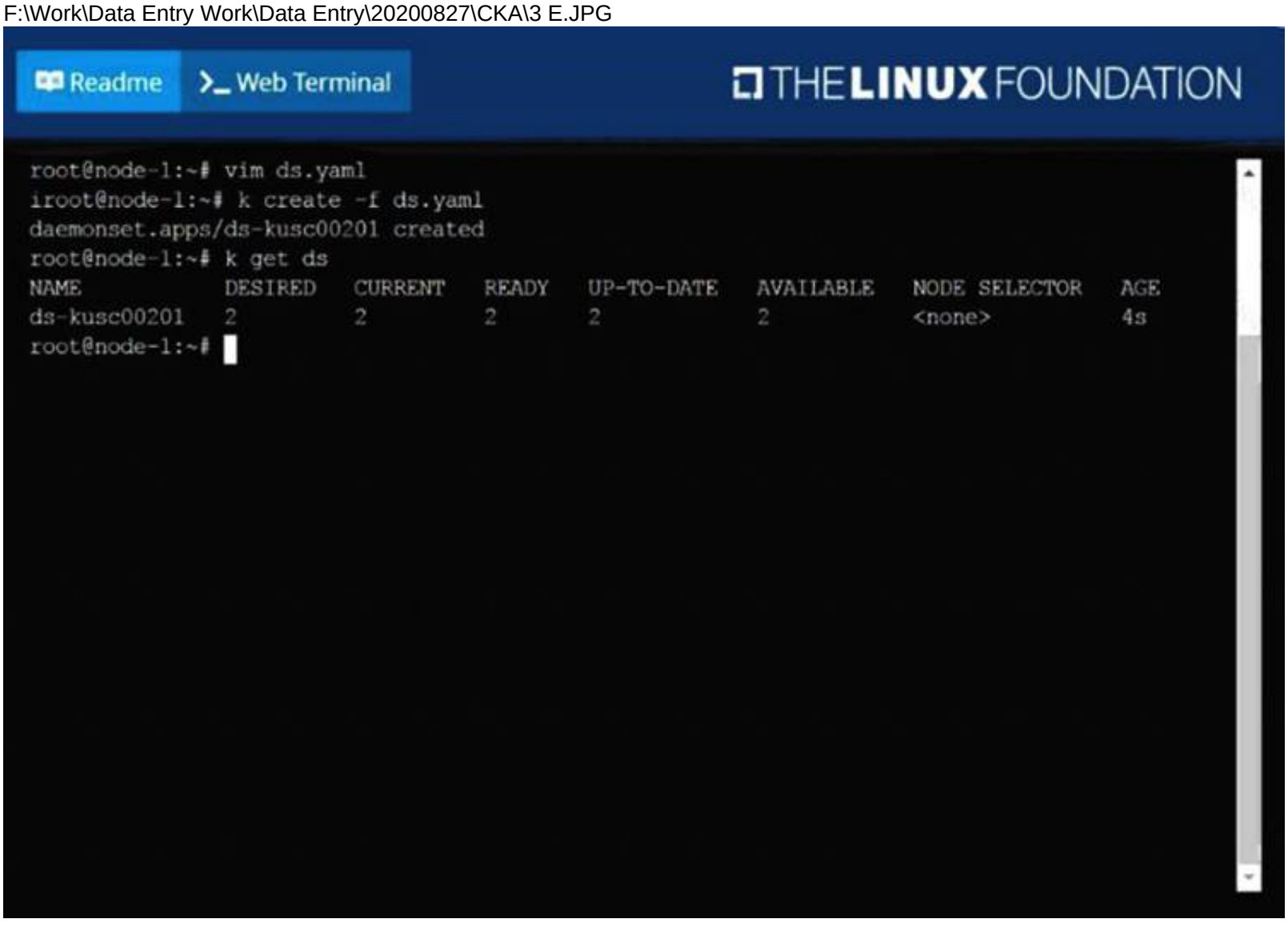

NEW QUESTION 10
Create a pod with image nginx called nginx and allow traffic on port 80

A. Mastered
B. Not Mastered

Answer: A

Explanation:
kubectl run nginx --image=nginx --restart=Never --port=80

NEW QUESTION 13

Given a partially-functioning Kubernetes cluster, identify symptoms of failure on the cluster.
Determine the node, the failing service, and take actions to bring up the failed service and restore the health of the cluster. Ensure that any changes are made permanently.
You can ssh to the relevant I nodes (bk8s-master-0 or bk8s-node-0) using:
[student@node-1] $ ssh <nodename>
You can assume elevated privileges on any node in the cluster with the following command:
[student@nodename] $ | sudo –i

A. Mastered
B. Not Mastered

Answer: A

Explanation:

solution
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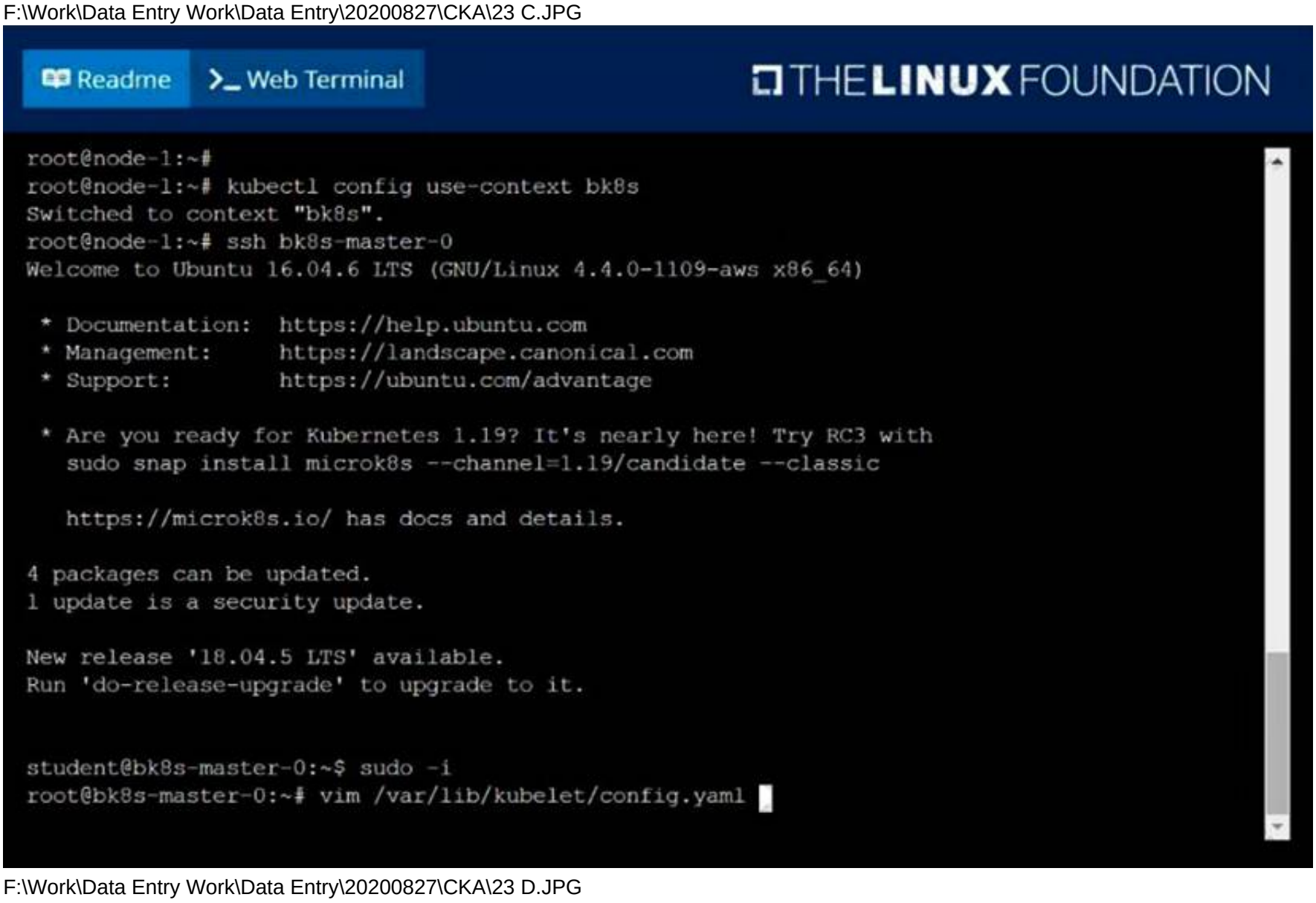

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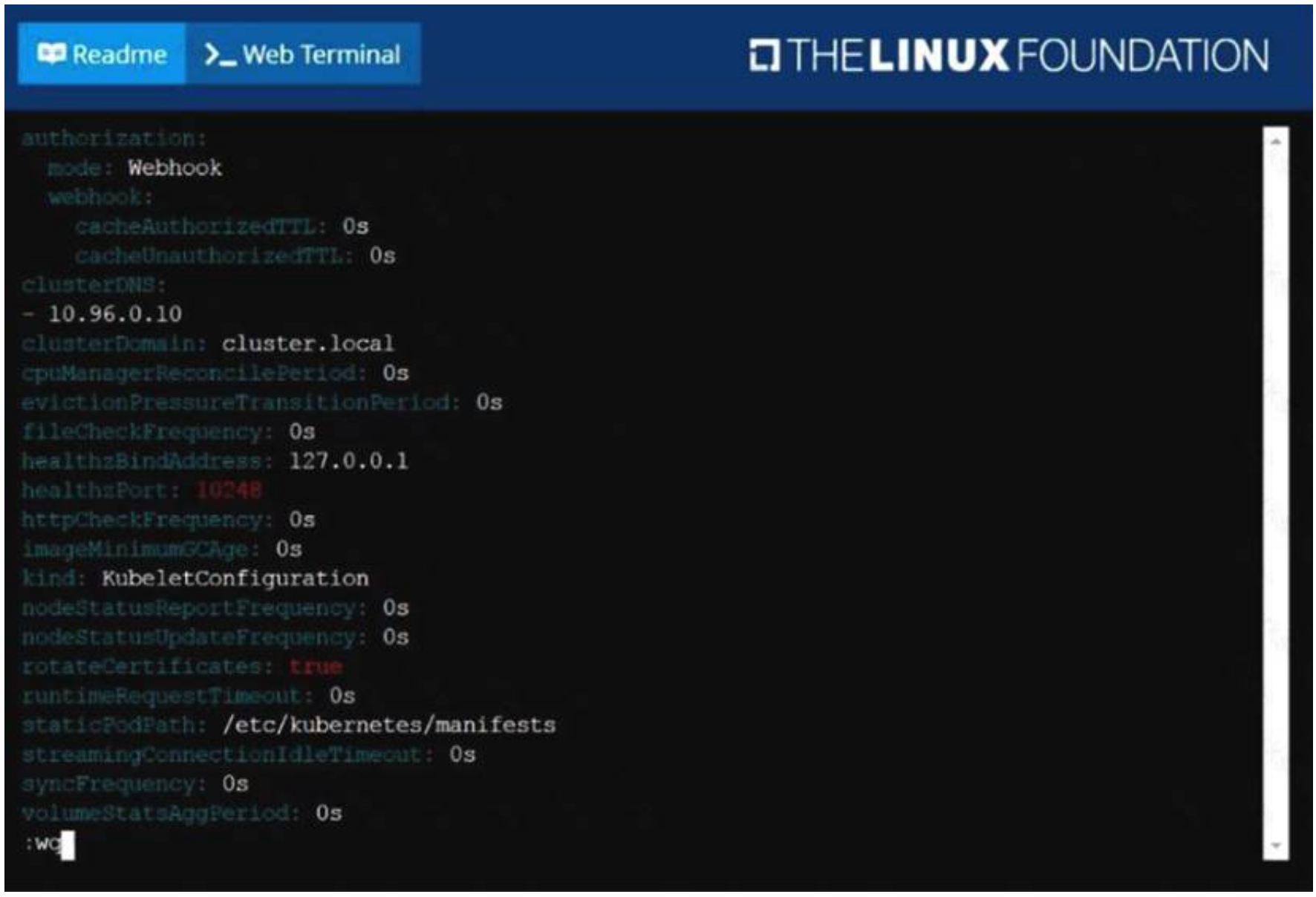

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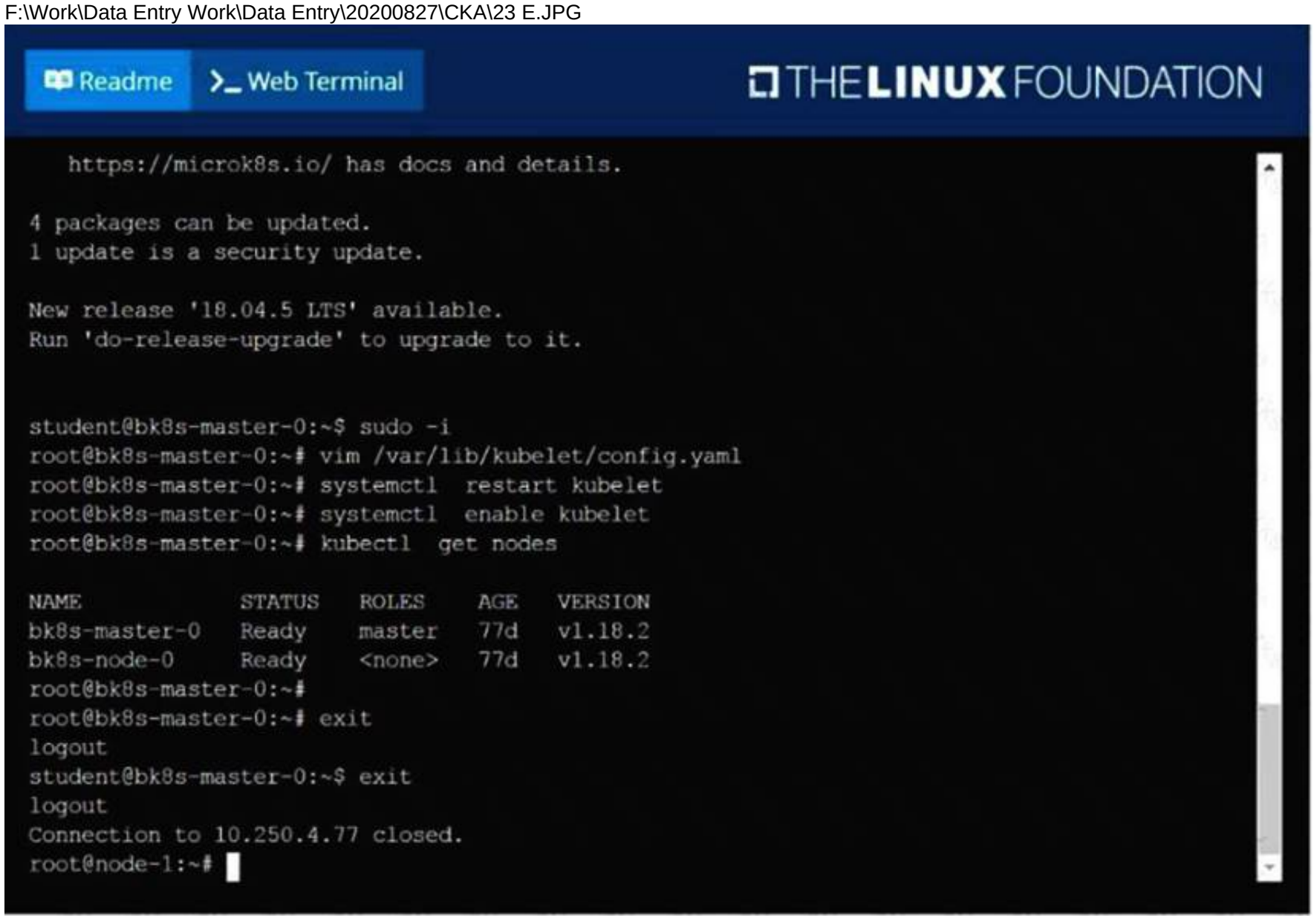

NEW QUESTION 17
List “nginx-dev” and “nginx-prod” pod and delete those pods

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 21
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 23
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