Linux-Foundation

Exam Questions CKAD

Certified Kubernetes Application Developer (CKAD) Program

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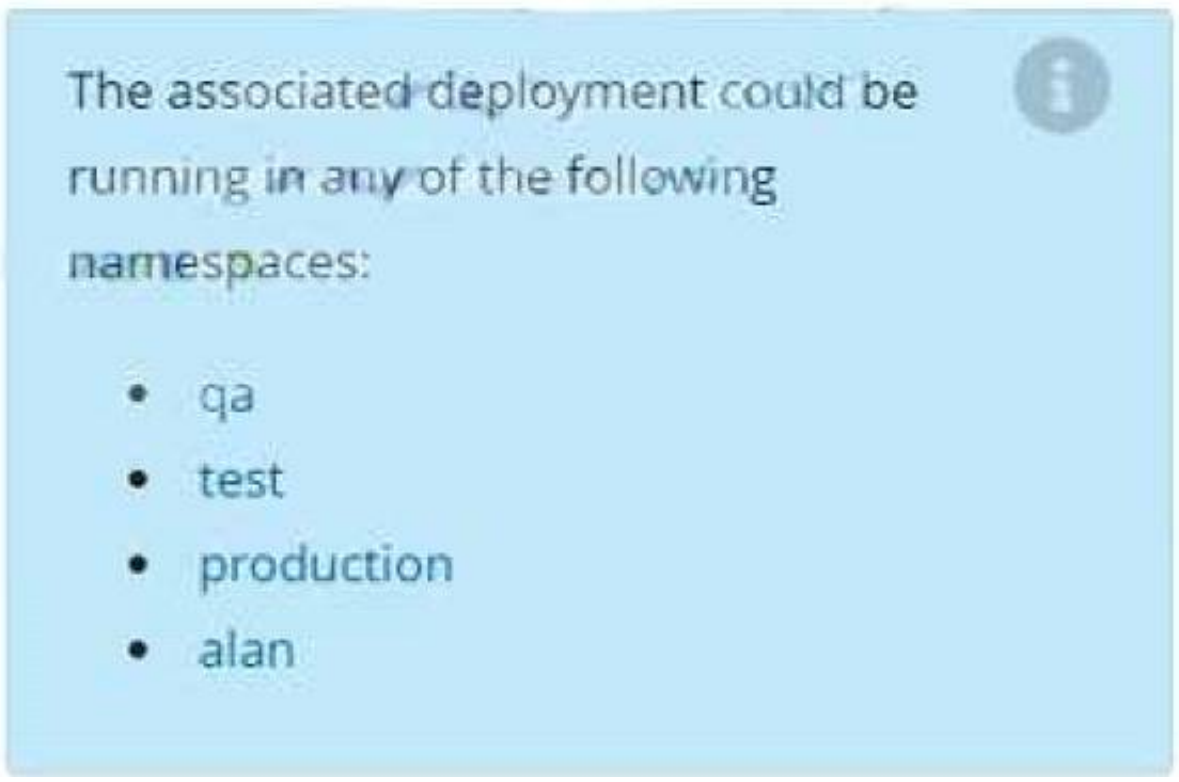
NEW QUESTION 1
Exhibit:

Context
A user has reported an aopticauon is unteachable due to a failing livenessProbe . Task
Perform the following tasks:
• Find the broken pod and store its name and namespace to /opt/KDOB00401/broken.txt in the format:

The output file has already been created
• Store the associated error events to a file /opt/KDOB00401/error.txt, The output file has already been created. You will need to use the -o wide output specifier with your command
• Fix the issue.



A. Mastered
B. Not Mastered

Answer: A

Explanation:

Solution:
Create the Pod: kubectlcreate-f
http://k8s.io/docs/tasks/configure-pod-container/
exec-liveness.yaml
Within 30 seconds, view the Pod events: kubectldescribepod liveness-exec
The output indicates that no liveness probes have failed yet:
FirstSeen LastSeen CountFrom SubobjectPath Type Reason Message
--------- -------- ----- ---- ------------- -------- ------ ------
24s 24s 1{default-scheduler } NormalScheduled Successfully assigned liveness-exec to worker0
23s 23s 1{kubelet worker0} spec.containers{liveness} NormalPulling pulling image"gcr.io/google_containers/busybox"
23s 23s 1{kubelet worker0} spec.containers{liveness} NormalPulled Successfully pulled image"gcr.io/google_containers/busybox"
23s 23s 1{kubelet worker0} spec.containers{liveness} NormalCreated Created container with docker id86849c15382e; Security:[seccomp=unconfined]
23s 23s 1{kubelet worker0} spec.containers{liveness} NormalStarted Started container with docker id86849c15382e
After 35 seconds, view the Pod events again: kubectldescribepod liveness-exec
At the bottom of the output, there are messages indicating that the liveness probes have failed, and the containers have been killed and recreated.
FirstSeen LastSeen Count From SubobjectPath Type Reason Message
--------- -------- ----- ---- ------------- -------- ------ ------
37s 37s 1{default-scheduler } Normal Scheduled Successfully assigned liveness-exectoworker0
36s 36s 1{kubelet worker0} spec.containers{liveness} Normal Pulling pulling image"gcr.io/google_containers/busybox"
36s 36s 1{kubelet worker0} spec.containers{liveness} Normal Pulled Successfully pulled image"gcr.io/google_containers/busybox"

36s 36s 1{kubelet worker0} spec.containers{liveness} Normal Created Created containerwithdocker id86849c15382e; Security:[seccomp=unconfined]
36s 36s 1{kubelet worker0} spec.containers{liveness} Normal Started Started containerwithdocker id86849c15382e
2s 2s 1{kubelet worker0} spec.containers{liveness} Warning Unhealthy Liveness probe failed: cat: can't open
'/tmp/healthy': No suchfileordirectory
Wait another 30 seconds, and verify that the Container has been restarted: kubectl get pod liveness-exec
The output shows that RESTARTS has been incremented:
NAMEREADY STATUSRESTARTS AGE
liveness-exec 1/1Running 1m

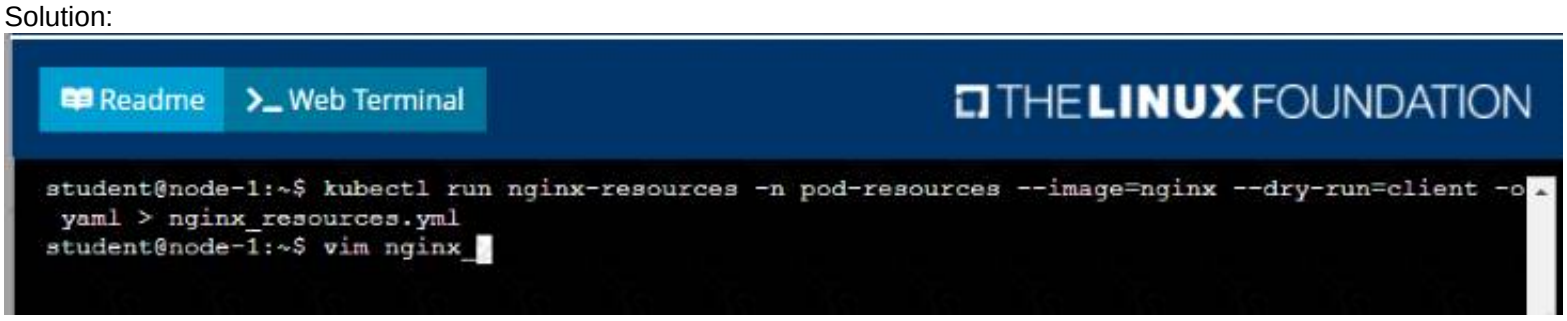
NEW QUESTION 2
Exhibit:

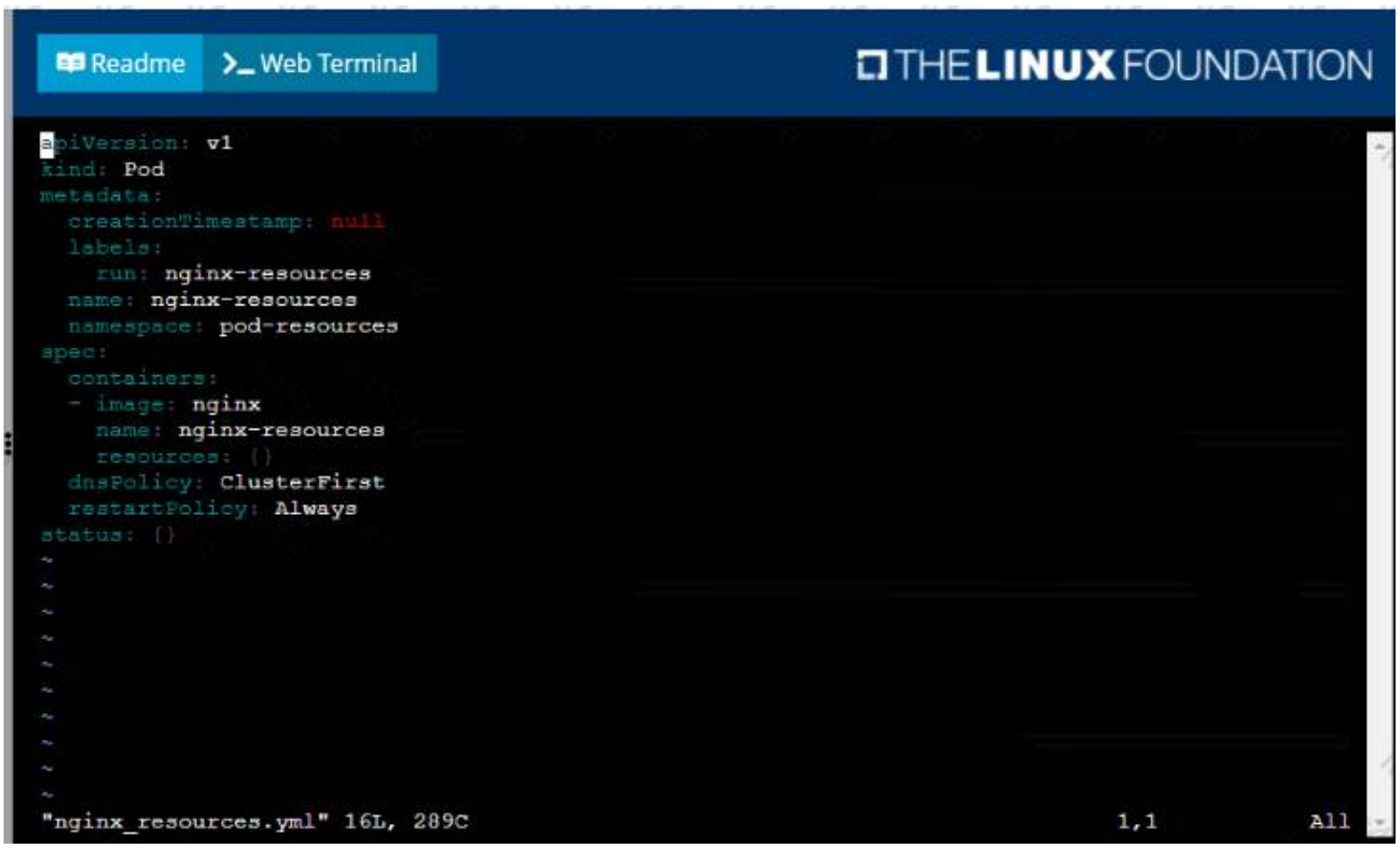
Task
You are required to create a pod that requests a certain amount of CPU and memory, so it gets scheduled to-a node that has those resources available.
• Create a pod named nginx-resources in the pod-resources namespace that requests a minimum of200m CPU and1Gi memory for its container
• The pod should use the nginx image
• The pod-resources namespace has already been created

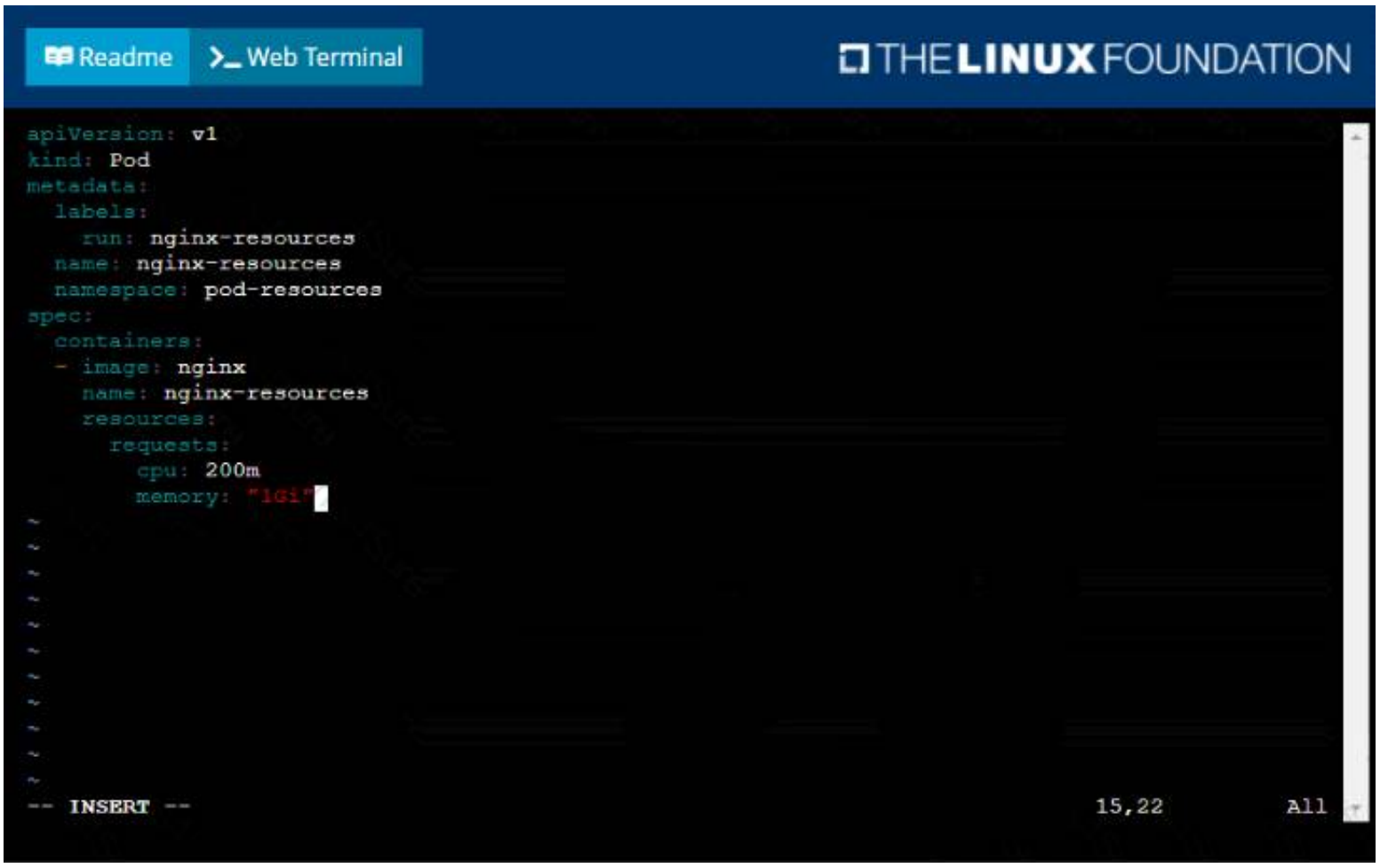
A. Mastered
B. Not Mastered

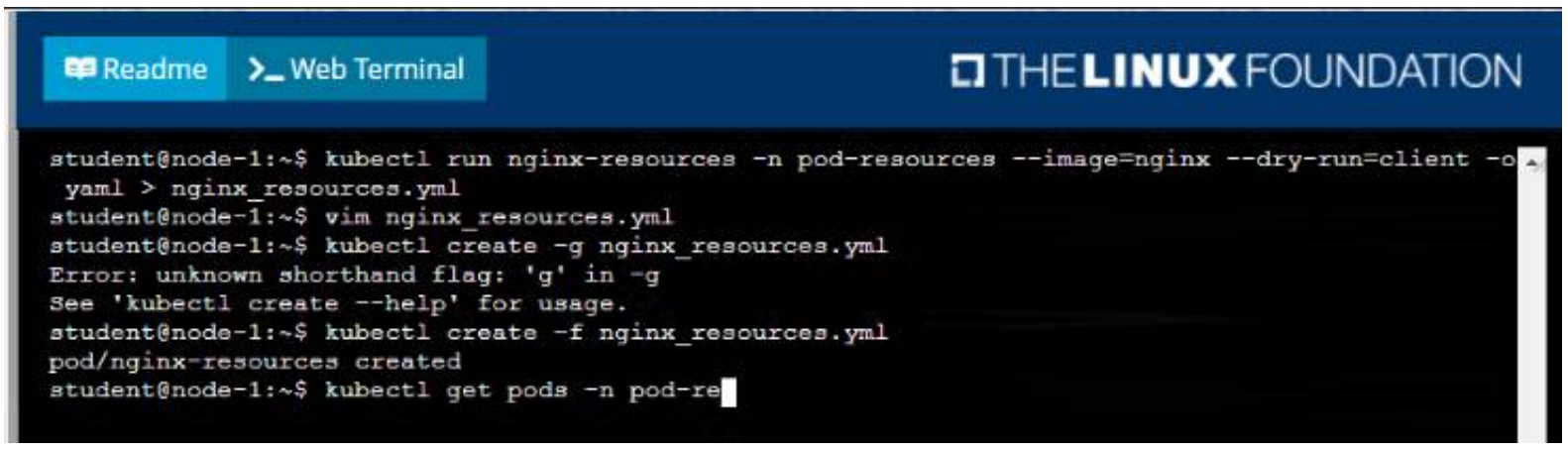
Answer: A

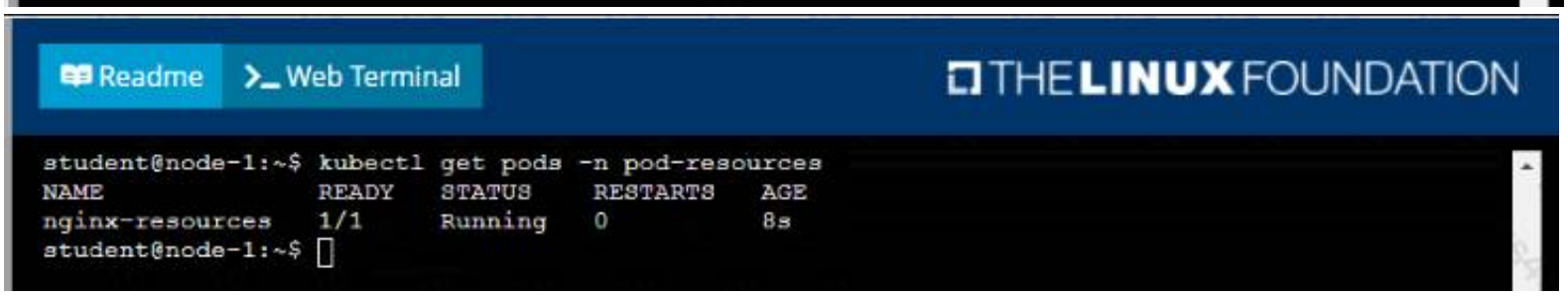
Explanation:
Solution:











NEW QUESTION 3
Exhibit:

Given a container that writes a log file in format A and a container that converts log files from format A to format B, create a deployment that runs both containers such that the log files from the first container are converted by the second container, emitting logs in format B.
Task:
• Create a deployment named deployment-xyz in the default namespace, that:
•Includes a primary
lfccncf/busybox:1 container, named logger-dev
•includes a sidecar lfccncf/fluentd:v0.12 container, named adapter-zen
•Mounts a shared volume /tmp/log on both containers, which does not persist when the pod is deleted
•Instructs the logger-dev container to run the command

```
while true; do
echo "i luv cncf" >> /
tmp/log/input.log;
sleep 10;
done
```

which should output logs to /tmp/log/input.log in plain text format, with example values:

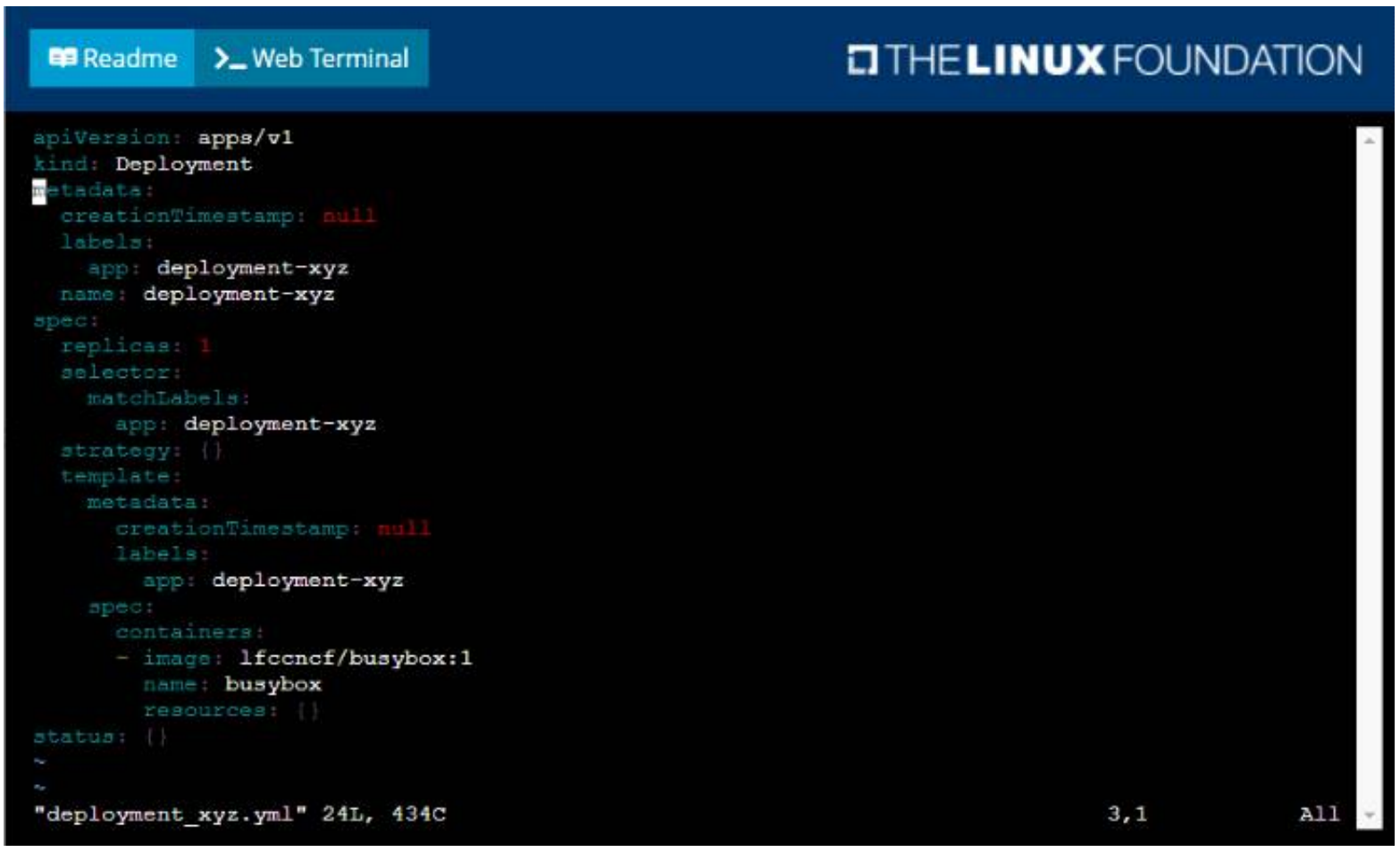
```
i luv cncf
i luv cncf
i luv cncf
```

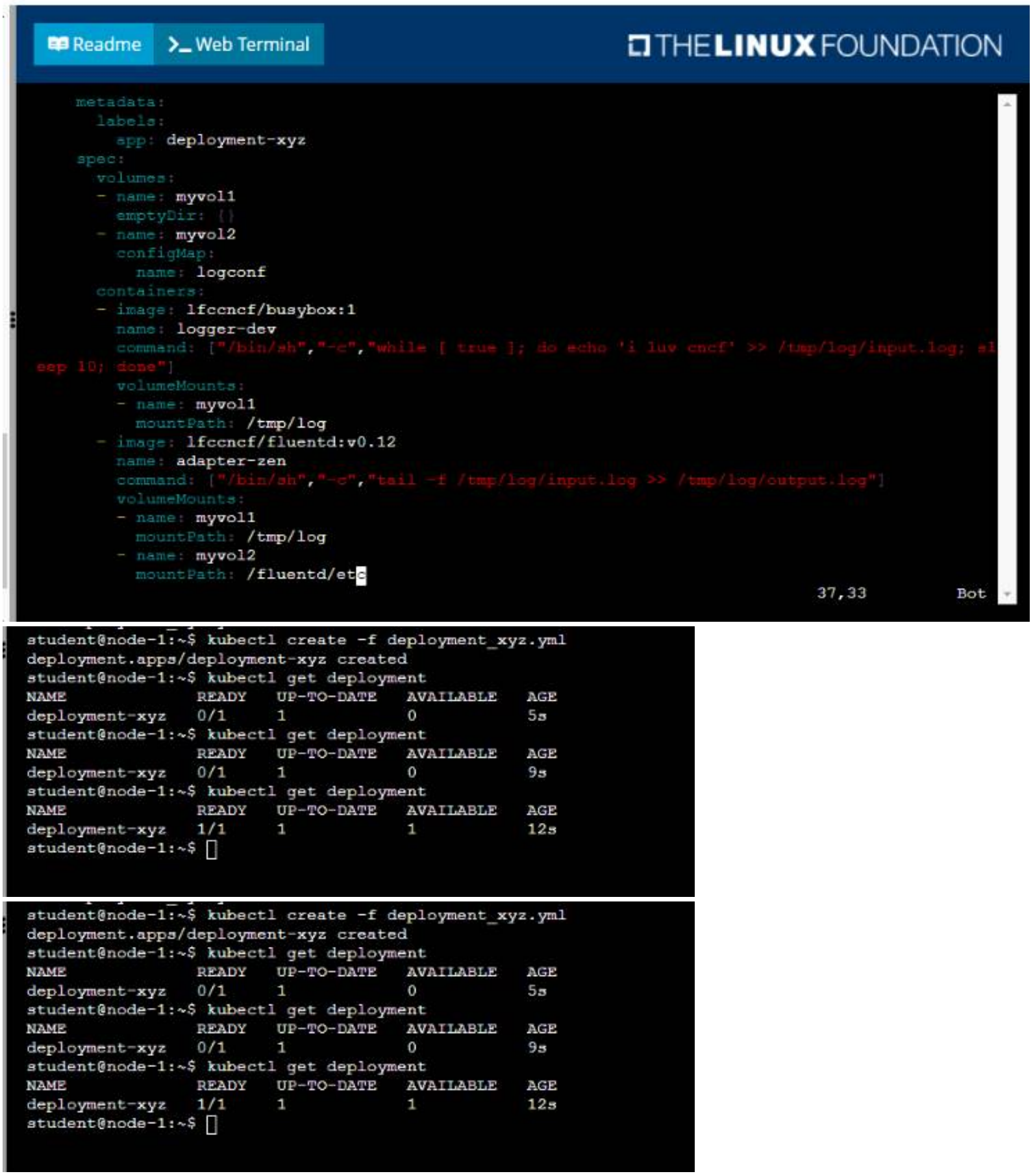
• The adapter-zen sidecar container should read /tmp/log/input.log and output the data to /tmp/log/output.* in Fluentd JSON format. Note that no knowledge of Fluentd is required to complete this task: all you will need to achieve this is to create the ConfigMap from the spec file provided at /opt/KDMC00102/fluentd-configma p.yaml , and mount that ConfigMap to /fluentd/etc in the adapter-zen sidecar container

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution:



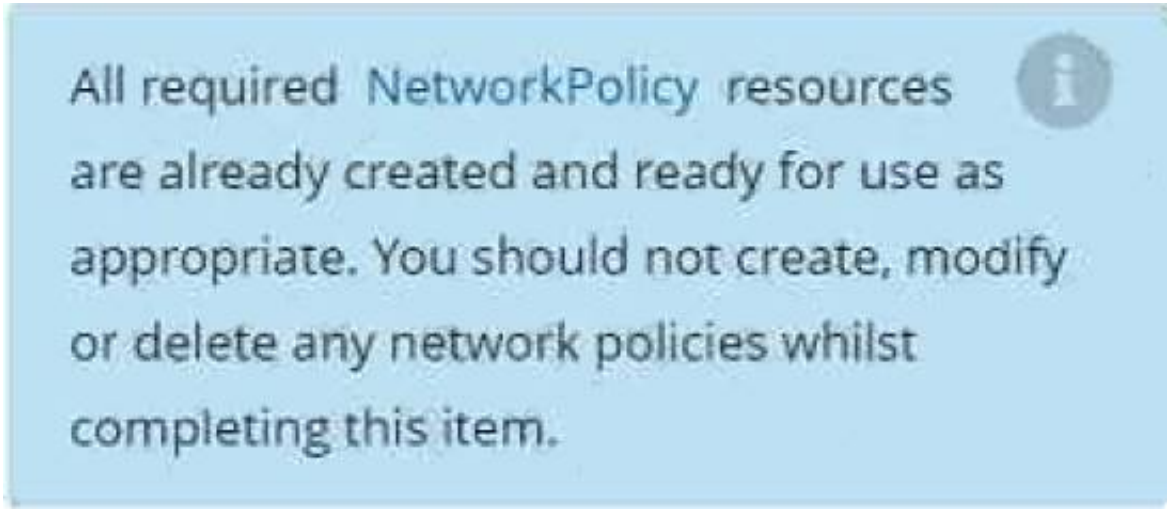


NEW QUESTION 4

Exhibit:

Task

You have rolled out a new pod to your infrastructure and now you need to allow it to communicate with the web and storage pods but nothing else. Given the running pod kdsn00201 -newpod edit it to use a network policy that will allow it to send and receive traffic only to and from the web and storage pods.



A. Mastered
B. Not Mastered

Answer: A

Explanation:

Suggest the Solution.

NEW QUESTION 10
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