# CKA Q&As

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**QUESTION 1**

SIMULATION

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:

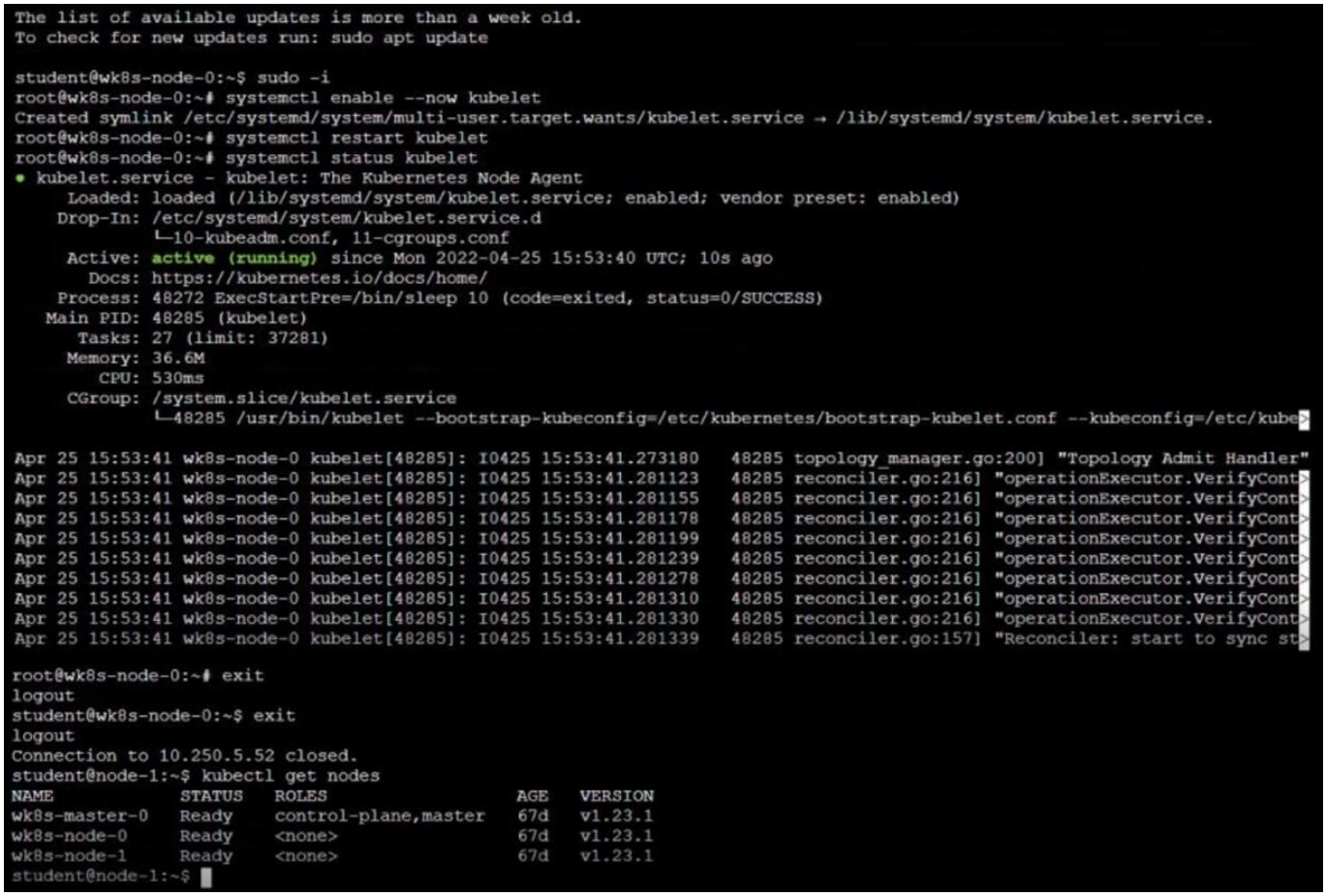
[student@node-1] $ ssh

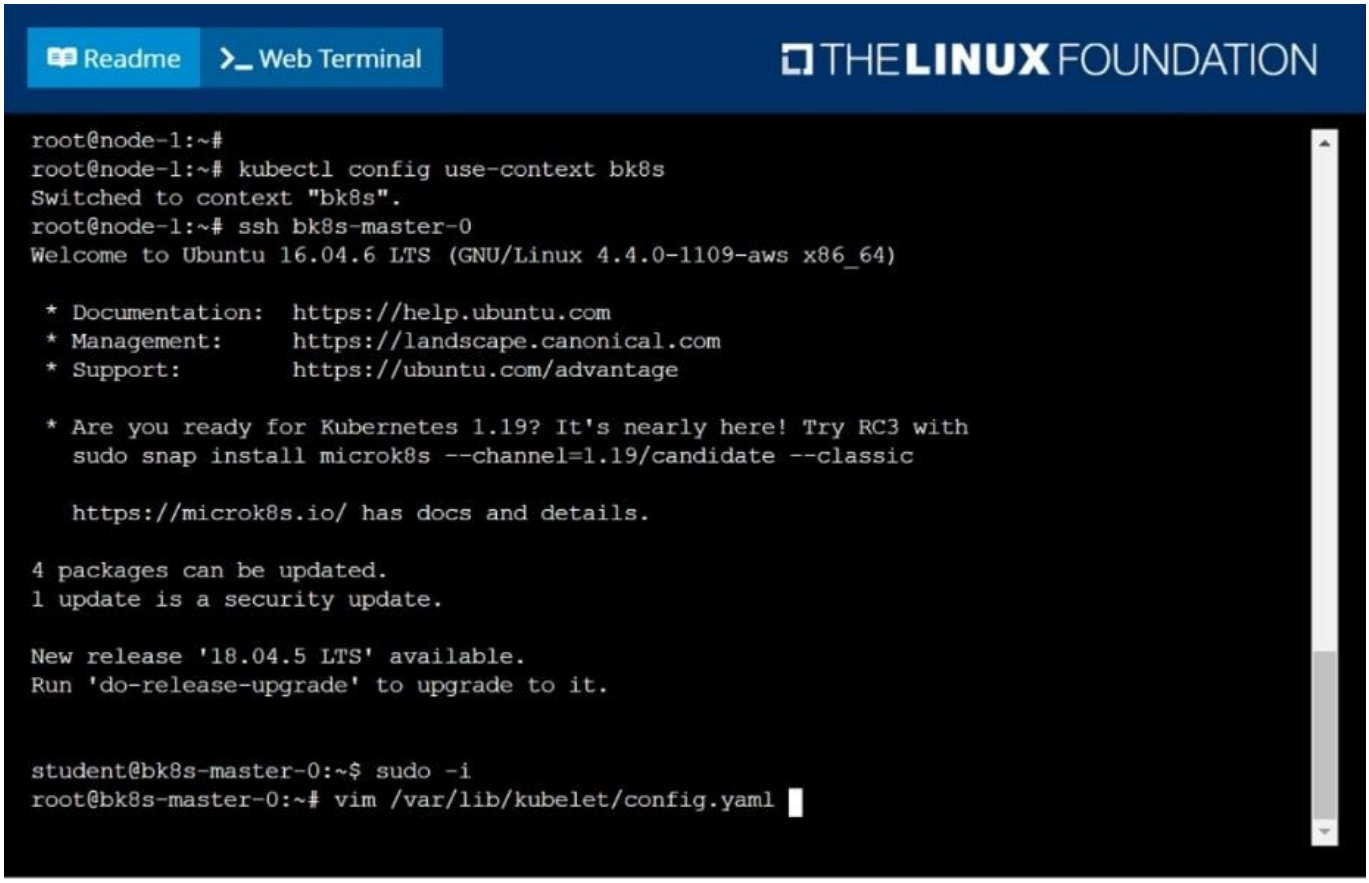
You can assume elevated privileges on any node in the cluster with the following command:

[student@nodename] $ | sudo -i

Correct Answer: Check the answer in explanation.

solution



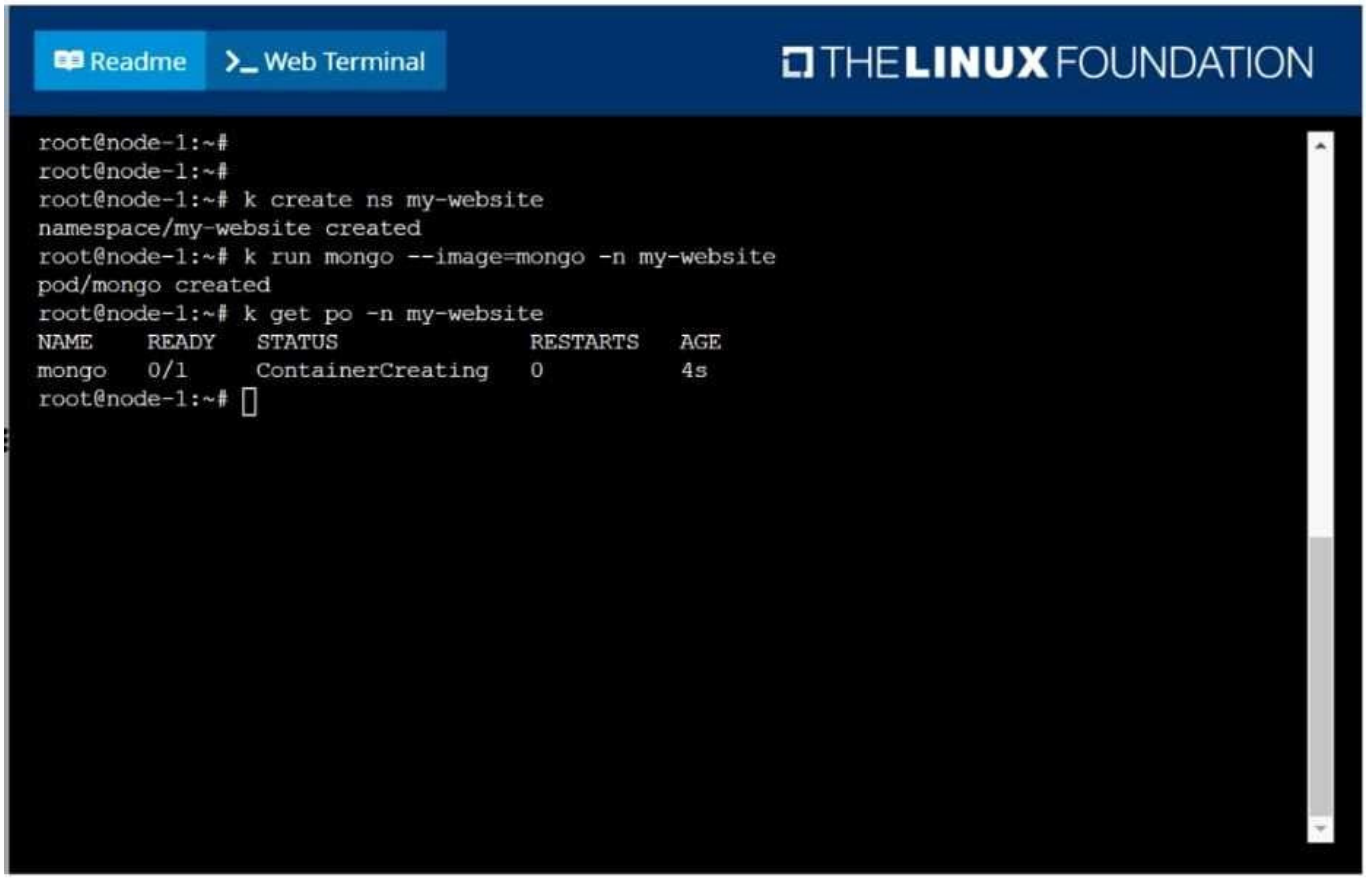



**QUESTION 2**

SIMULATION Create a pod as follows: Name: mongo Using Image: mongo In a new Kubernetes namespace named: my-website

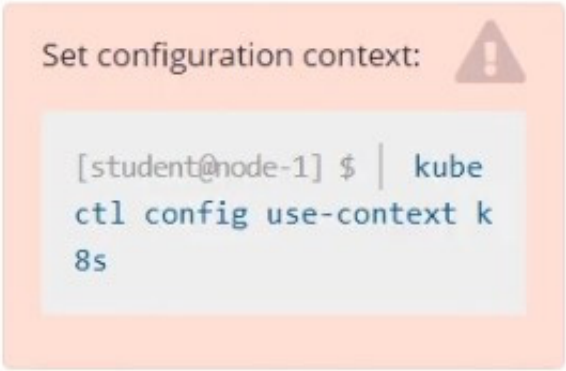
Correct Answer: Check the answer in explanation.

Solution




**QUESTION 3**

CORRECT TEXT




Task Monitor the logs of pod bar and: Extract log lines corresponding to error file-not-found

Write them to /opt/KUTR00101/bar

Correct Answer: Check the answer in explanation.

kubectl logs bar | grep \\'unable-to-access-website\\' > /opt/KUTR00101/bar cat /opt/KUTR00101/bar

**QUESTION 4**

SIMULATION

Create a deployment spec file that will:

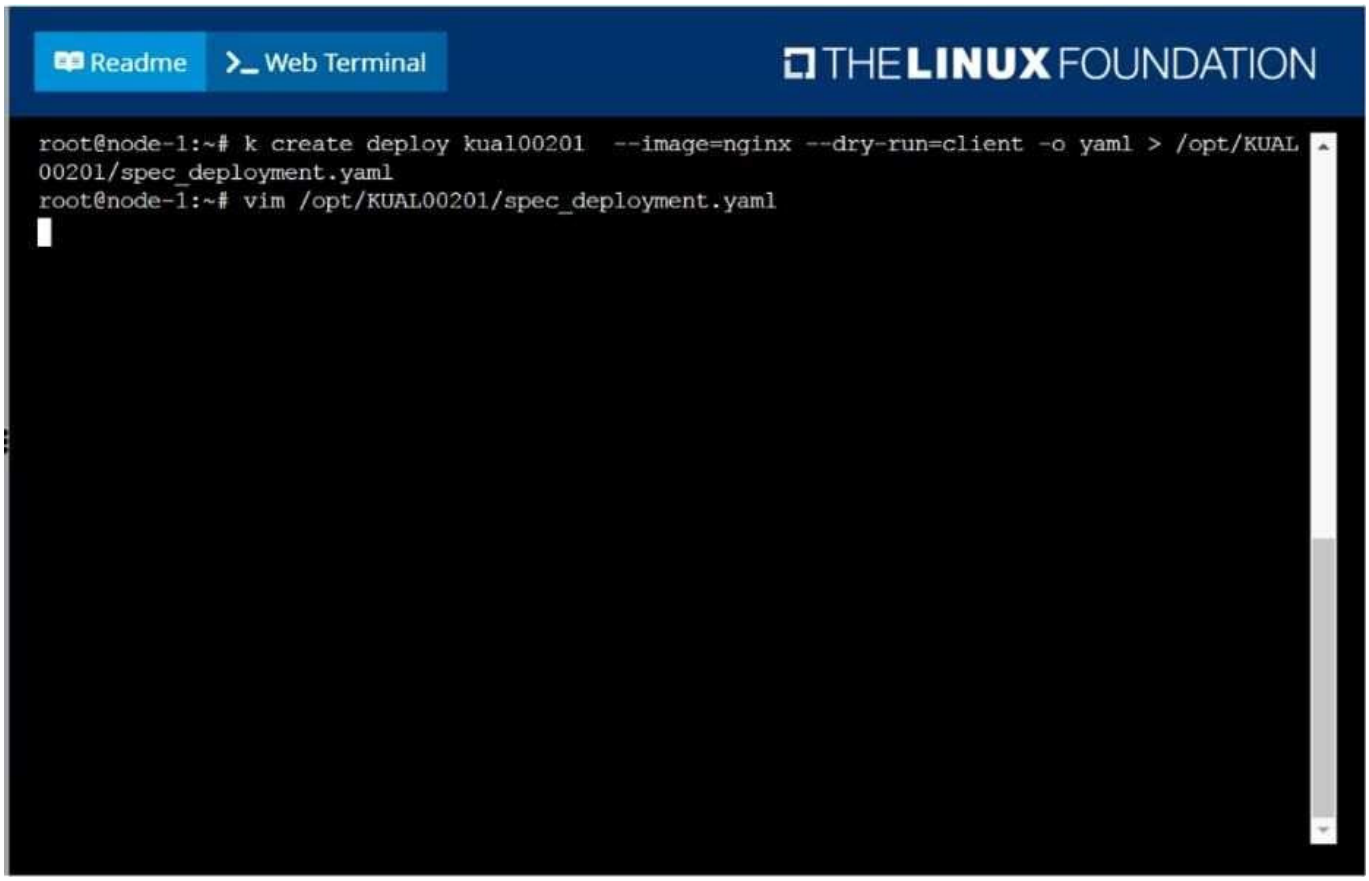
Launch 7 replicas of the nginx Image with the label app_runtime_stage=dev

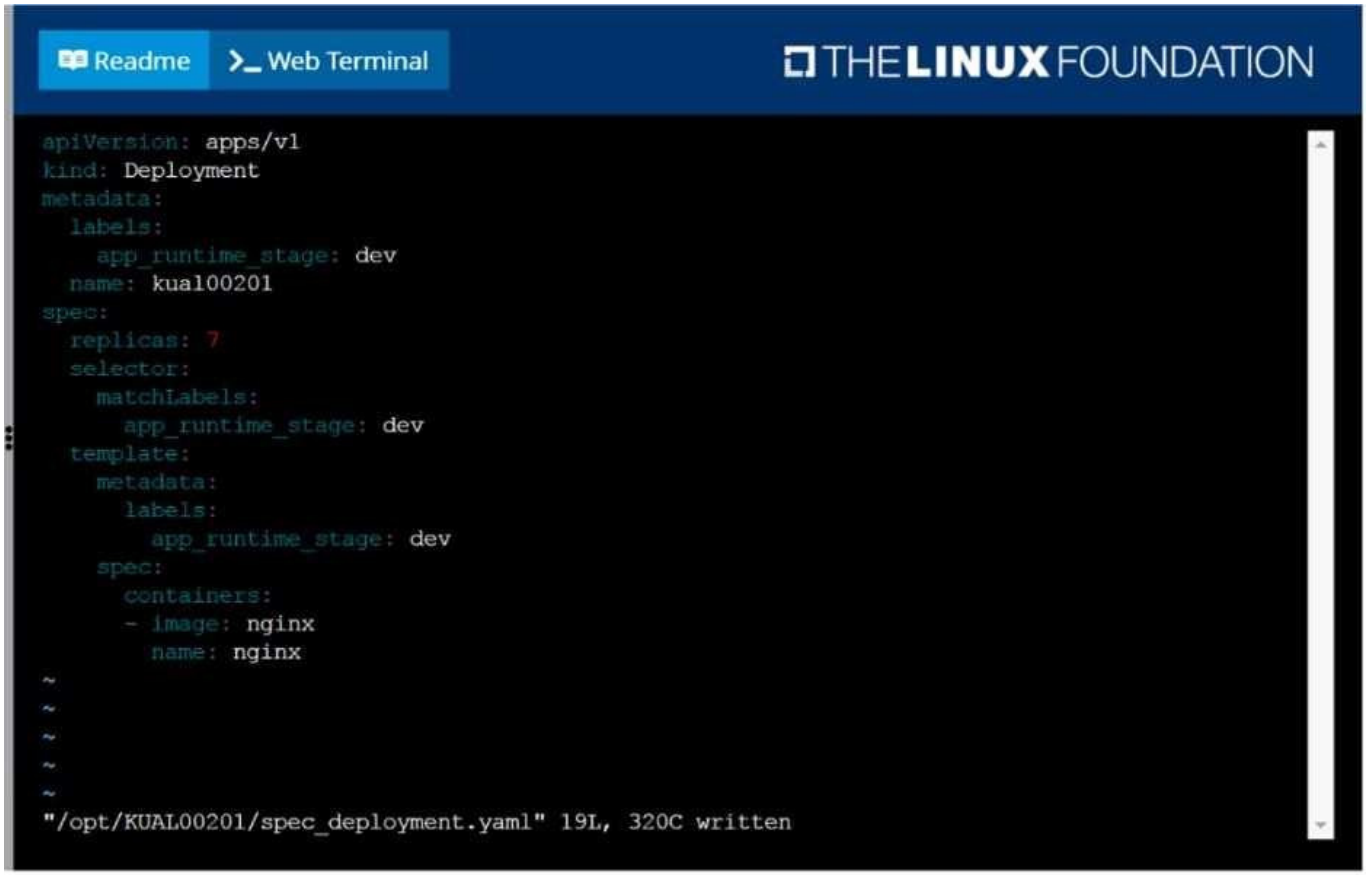
deployment name: kual00201

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.

Correct Answer: Check the answer in explanation.



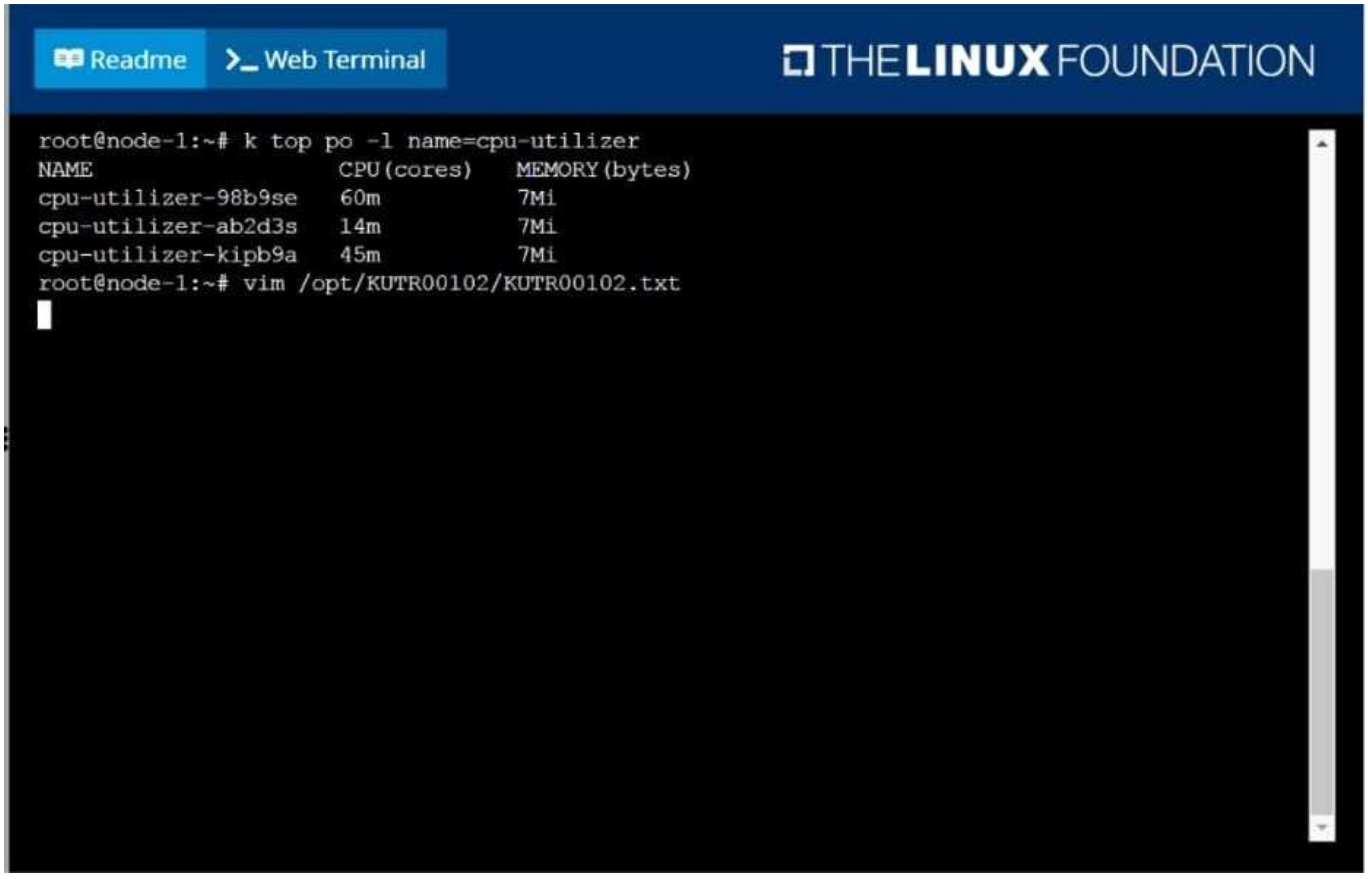


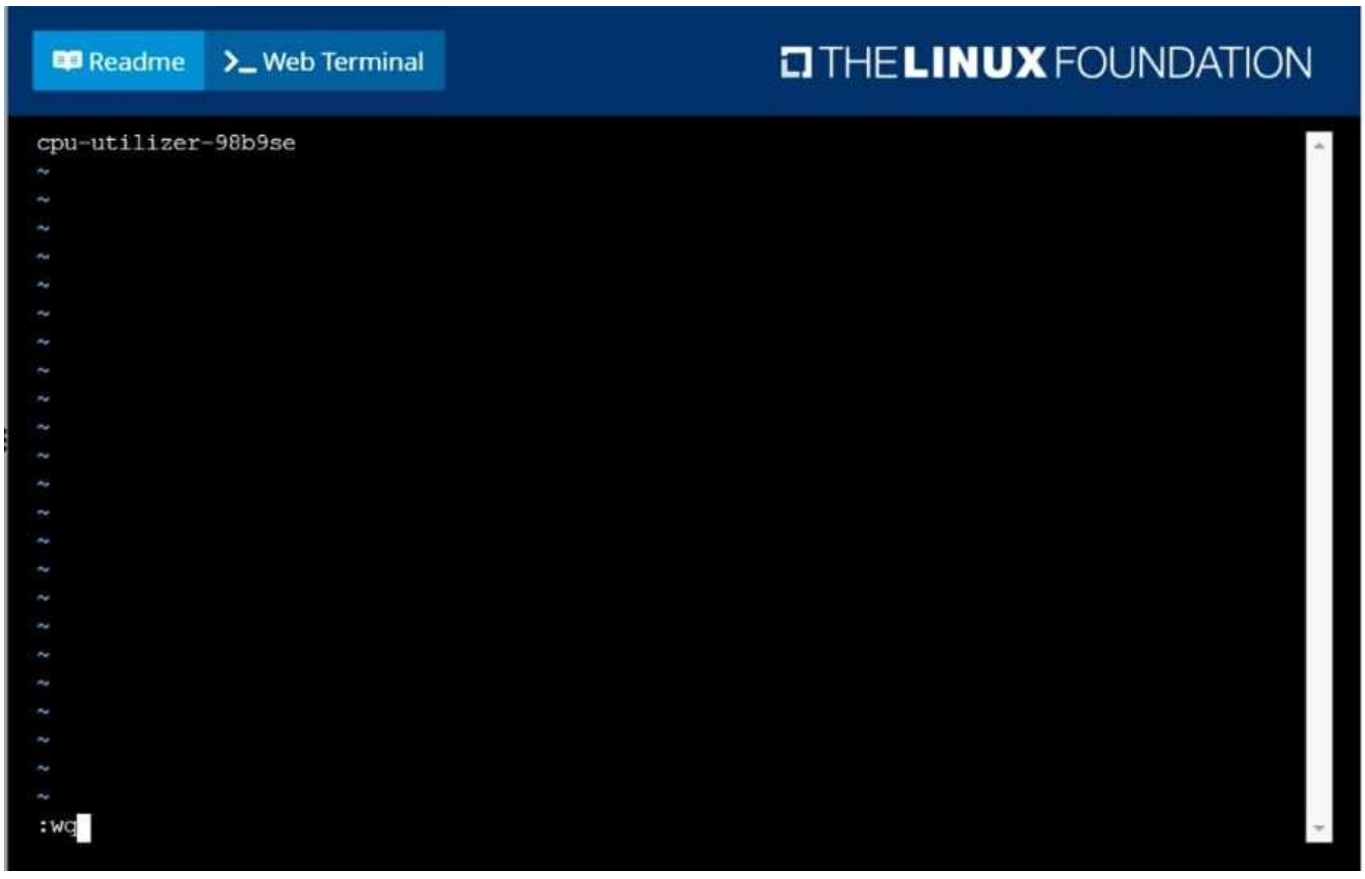

**QUESTION 5**

SIMULATION

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/KUTR00102/KUTR00102.txt (which already exists).

Correct Answer: Check the answer in explanation.


Readme
Web Terminal
THE LINUX FOUNDATION
root@node-1:~# k top po -l name=cpu-utilizer
NAME CPU(cores) MEMORY(bytes)
cpu-utilizer-98b9se 60m 7Mi
cpu-utilizer-ab2d3s 14m 7Mi
cpu-utilizer-kipb9a 45m 7Mi
root@node-1:~# vim /opt/KUTR00102/KUTR00102.txt


Readme
Web Terminal
THE LINUX FOUNDATION
cpu-utilizer-98b9se
:wq