

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

<https://www.2passeasy.com/dumps/CKA/>



NEW QUESTION 1

Create a pod that echo ??hello world?? and then exists. Have the pod deleted automatically when it??s completed

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
kubectl run busybox --image=busybox -it --rm --restart=Never -  
/bin/sh -c 'echo hello world'  
kubectl get po # You shouldn't see pod with the name "busybox"
```

NEW QUESTION 2

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.

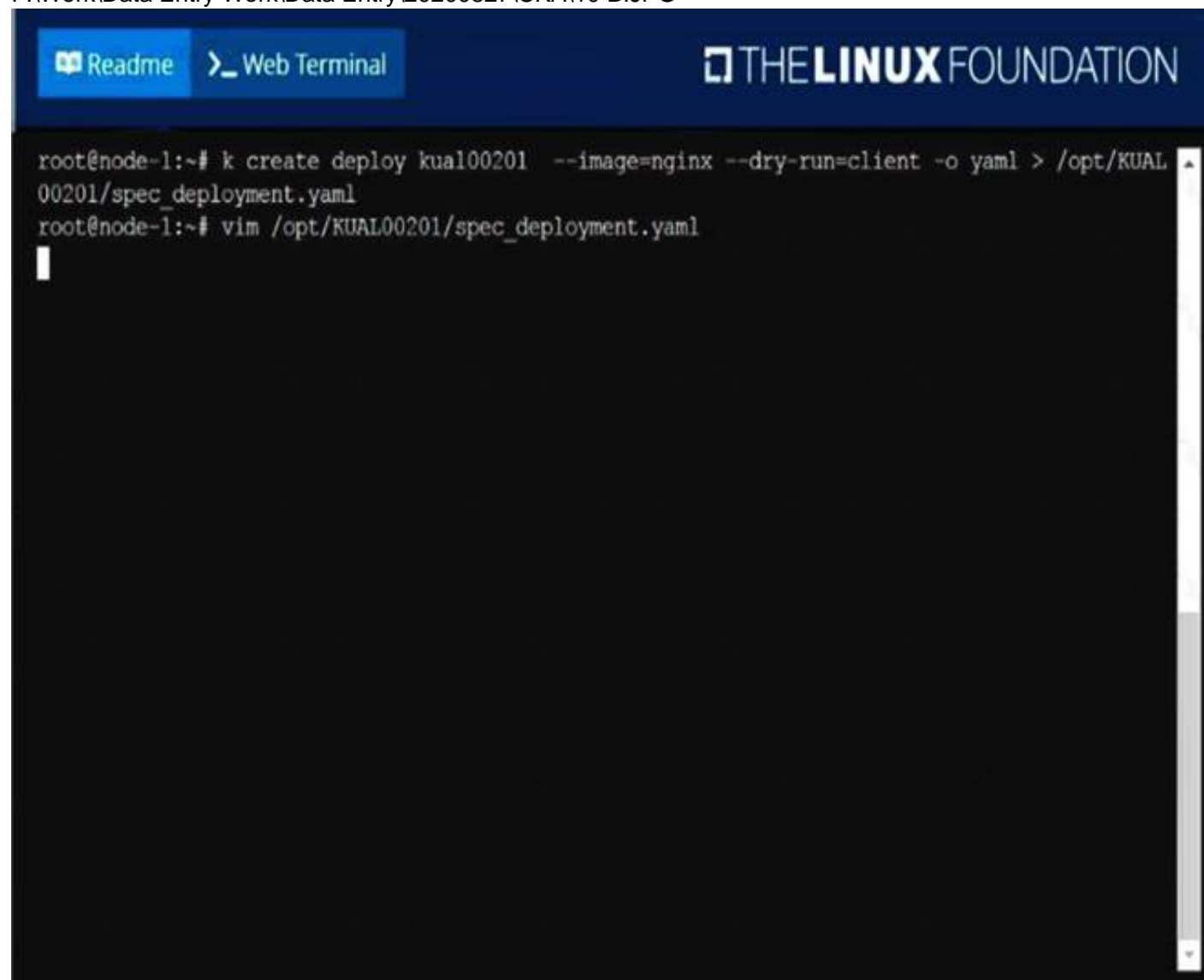
- A. Mastered
- B. Not Mastered

Answer: A

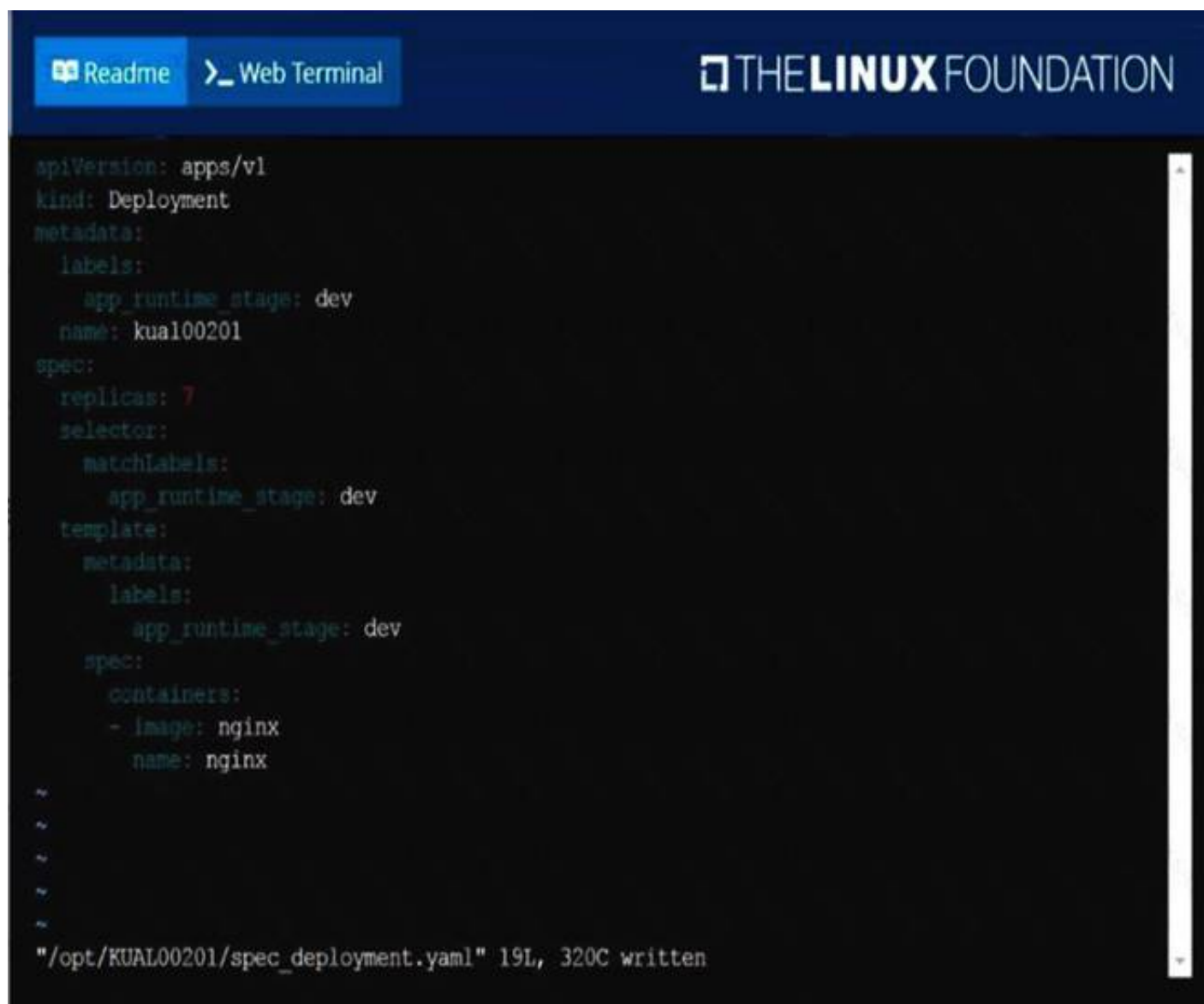
Explanation:

solution

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The screenshot shows a web terminal interface with a dark background. At the top, there are two tabs: 'Readme' and 'Web Terminal'. The 'Web Terminal' tab is active, and it displays a Kubernetes deployment YAML file. The YAML content is as follows:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app_runtime_stage: dev
  name: kua100201
spec:
  replicas: 7
  selector:
    matchLabels:
      app_runtime_stage: dev
  template:
    metadata:
      labels:
        app_runtime_stage: dev
    spec:
      containers:
      - image: nginx
        name: nginx
```

At the bottom of the terminal, a message indicates that the file has been written: `"/opt/KUAL00201/spec_deployment.yaml" 19L, 320C written`.

NEW QUESTION 3

Create a pod as follows:

- > Name:mongo
- > Using Image:mongo
- > In anew Kubernetes namespacenamed:my-website

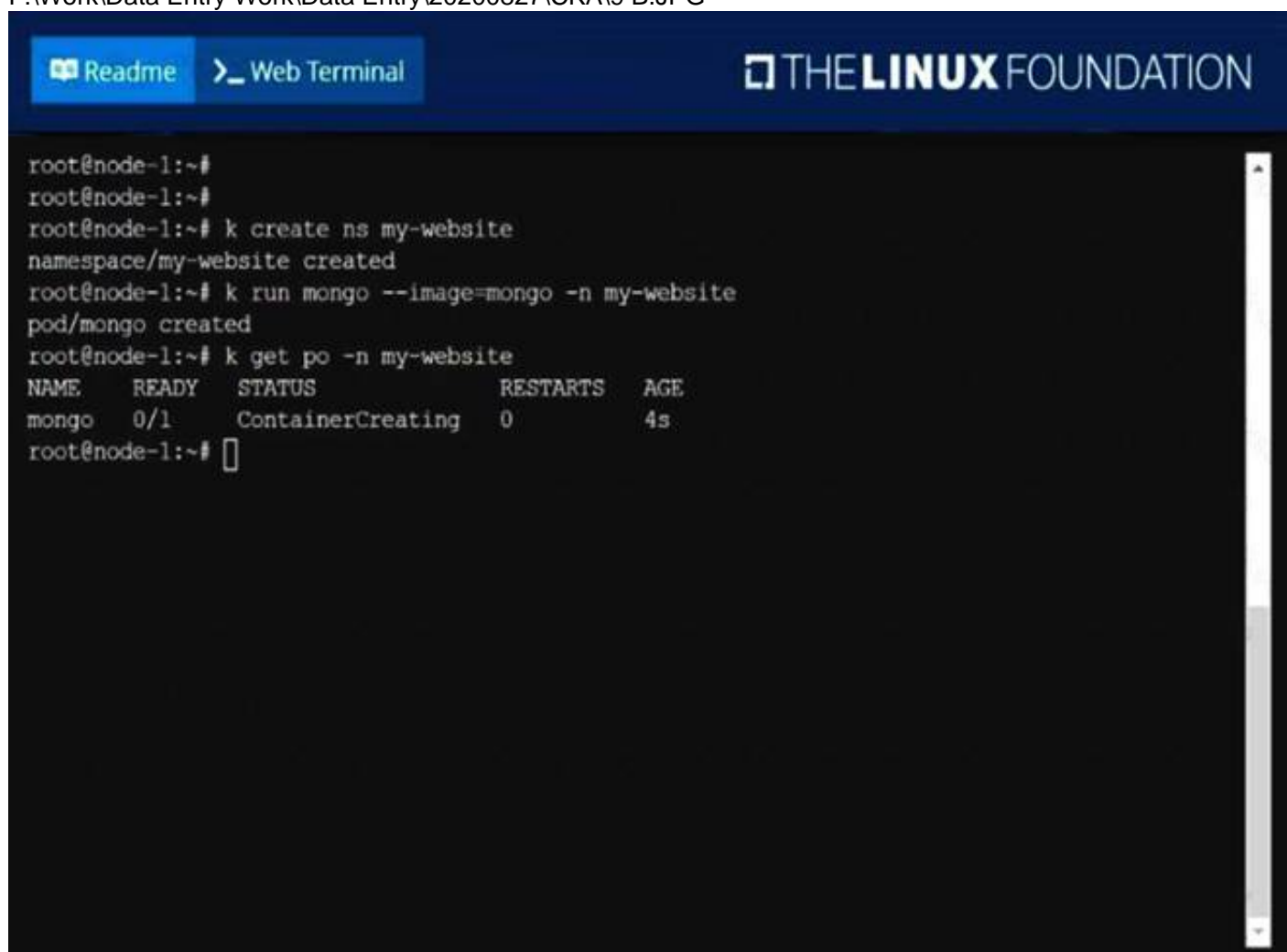
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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The screenshot shows a web terminal interface with a dark background. At the top, there are two tabs: 'Readme' and 'Web Terminal'. The 'Web Terminal' tab is active, and it displays a series of commands and their outputs in a terminal window. The commands and outputs are as follows:

```
root@node-1:~#
root@node-1:~#
root@node-1:~# k create ns my-website
namespace/my-website created
root@node-1:~# k run mongo --image=mongo -n my-website
pod/mongo created
root@node-1:~# k get po -n my-website
```

NAME	READY	STATUS	RESTARTS	AGE
mongo	0/1	ContainerCreating	0	4s

```
root@node-1:~#
```

NEW QUESTION 4

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

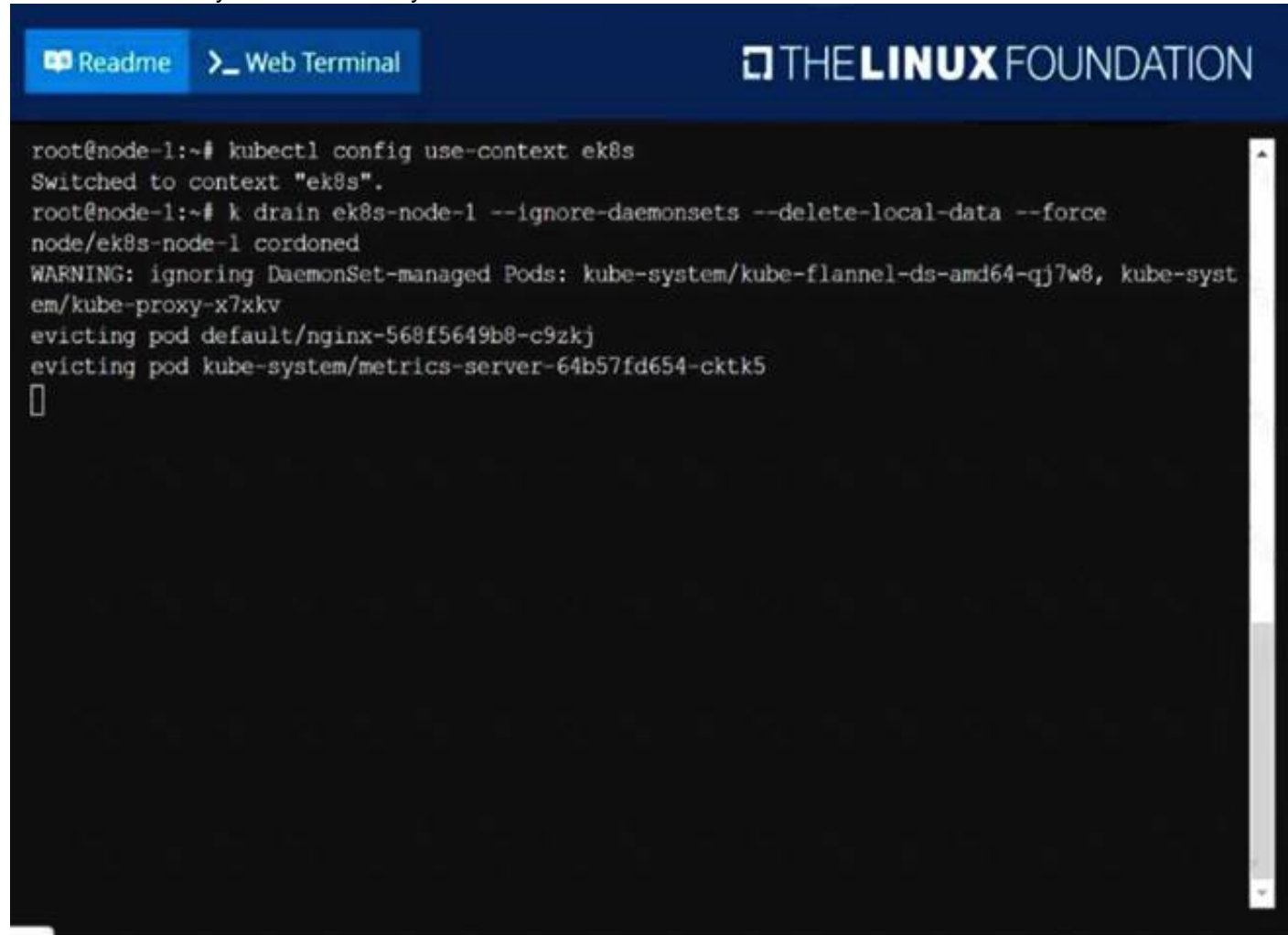
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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```
root@node-1:~# kubectl config use-context ek8s
Switched to context "ek8s".
root@node-1:~# k drain ek8s-node-1 --ignore-daemonsets --delete-local-data --force
node/ek8s-node-1 cordoned
WARNING: ignoring DaemonSet-managed Pods: kube-system/kube-flannel-ds-amd64-qj7w8, kube-syst
em/kube-proxy-x7xkv
evicting pod default/nginx-568f5649b8-c9zkj
evicting pod kube-system/metrics-server-64b57fd654-cktk5
[]
```

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 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 7

Create a namespace called 'development' and a pod with image nginx called nginx on this namespace.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubectl create namespace development

kubectl run nginx --image=nginx --restart=Never -n development

NEW QUESTION 8

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.

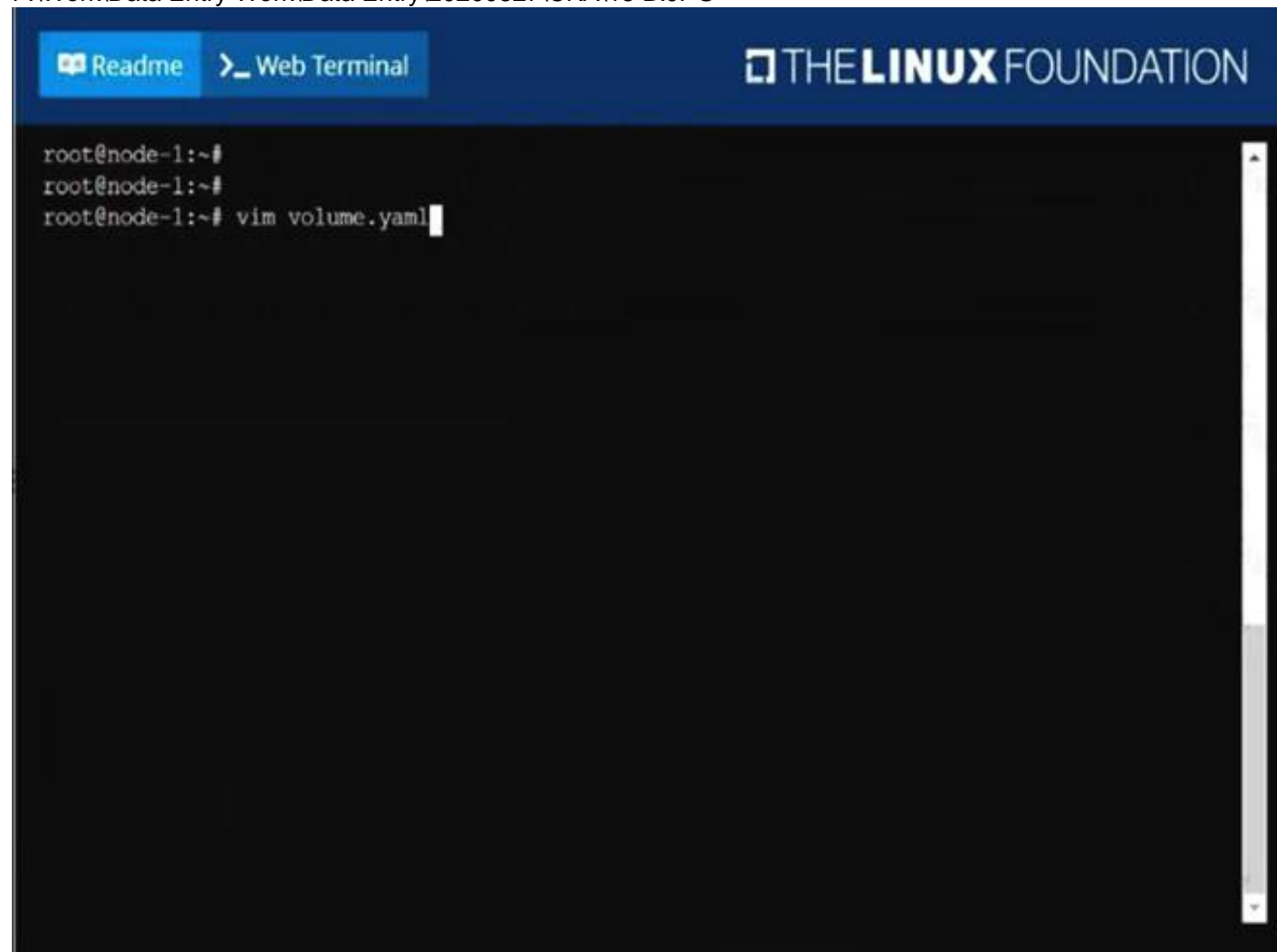
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

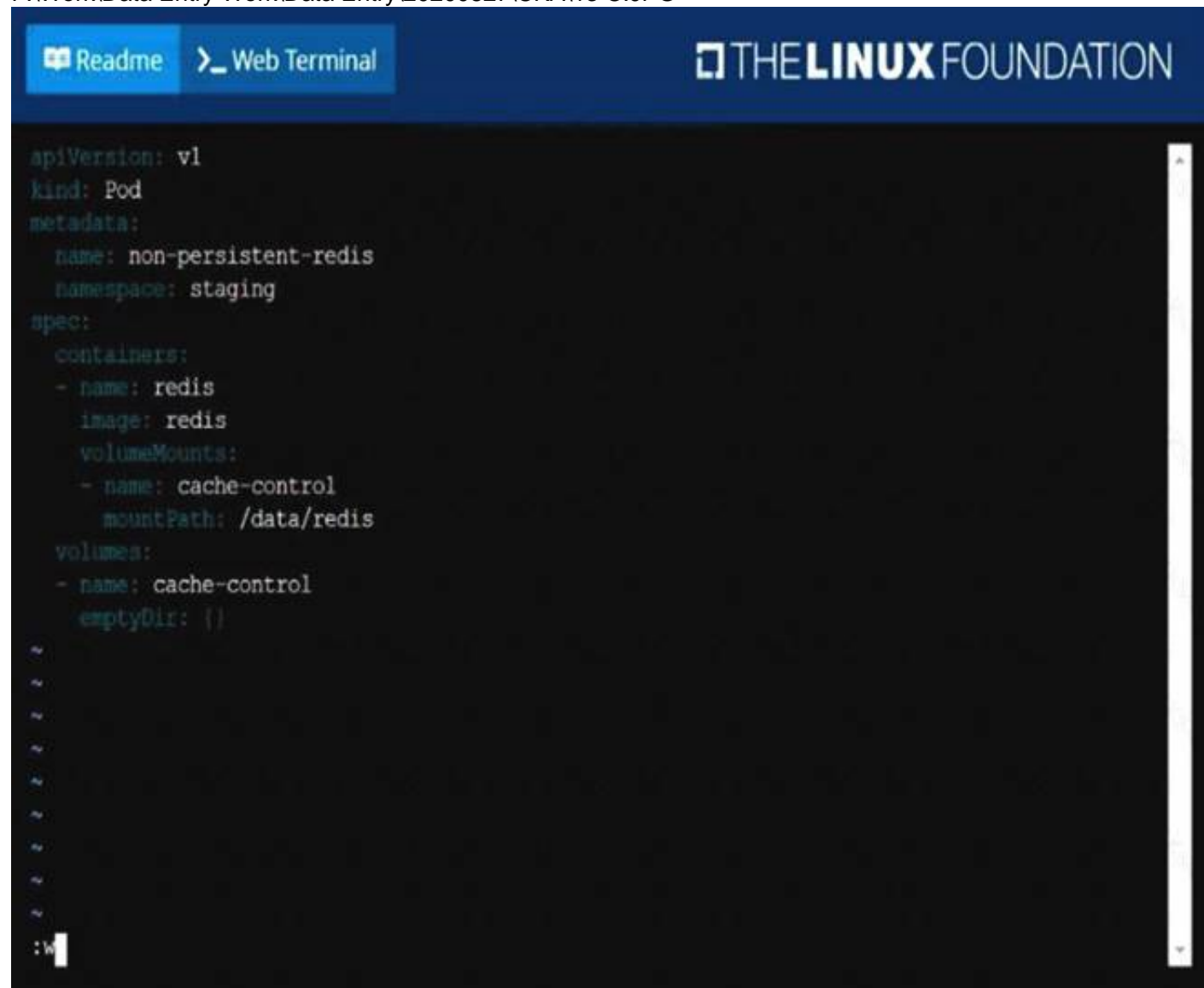
solution

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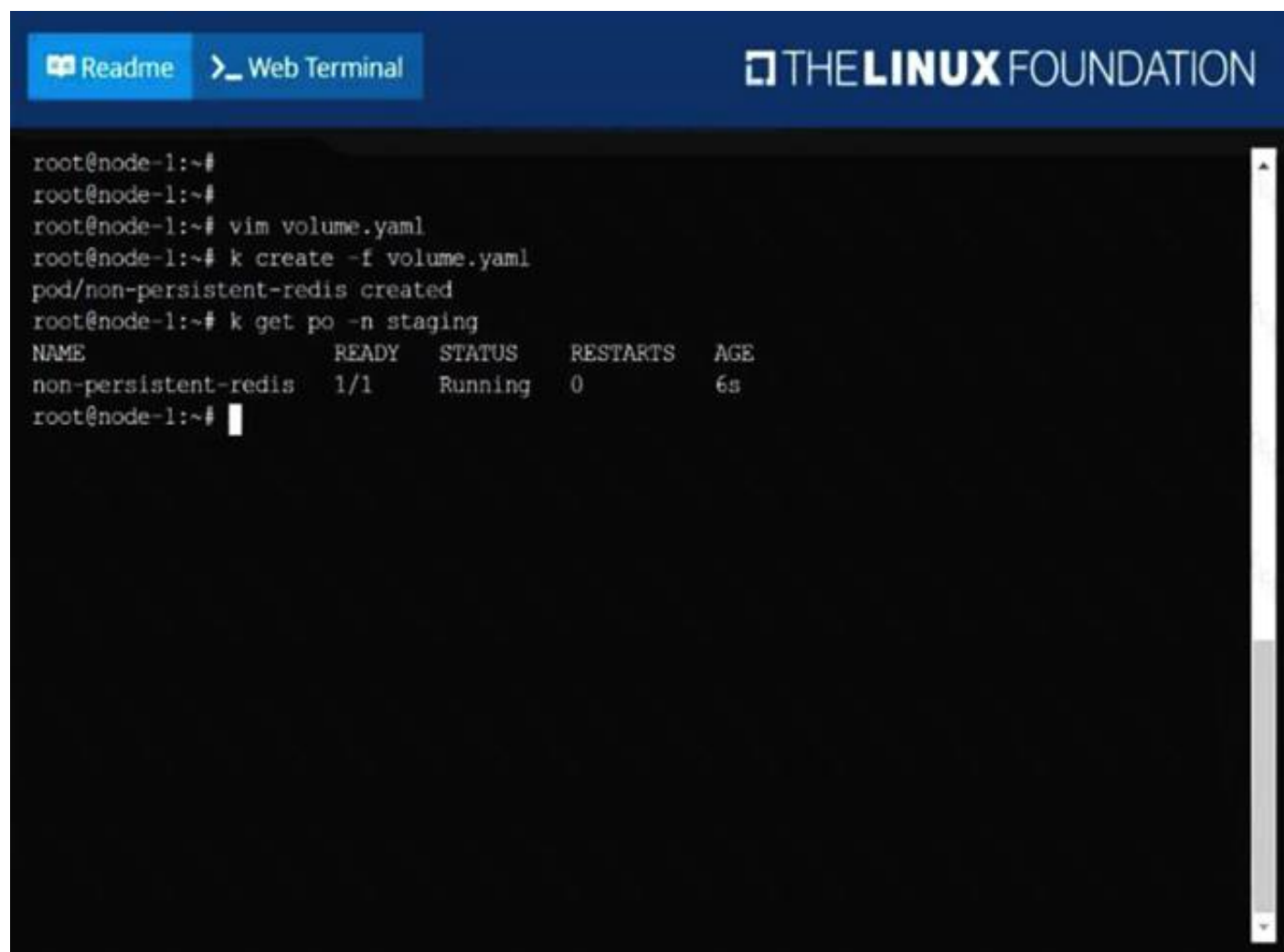
```
root@node-1:~#
root@node-1:~#
root@node-1:~# vim volume.yaml
```

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```
apiVersion: v1
kind: Pod
metadata:
  name: non-persistent-redis
  namespace: staging
spec:
  containers:
  - name: redis
    image: redis
    volumeMounts:
    - name: cache-control
      mountPath: /data/redis
  volumes:
  - name: cache-control
    emptyDir: {}
```

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```
root@node-1:~#  
root@node-1:~#  
root@node-1:~# vim volume.yaml  
root@node-1:~# k create -f volume.yaml  
pod/non-persistent-redis created  
root@node-1:~# k get po -n staging  
NAME                READY   STATUS    RESTARTS   AGE  
non-persistent-redis 1/1     Running   0           6s  
root@node-1:~#
```

NEW QUESTION 9

Get list of all pods in all namespaces and write it to file ??/opt/pods-list.yaml??

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

kubect! get po ?Call-namespaces > /opt/pods-list.yaml

NEW QUESTION 10

Configure the kubelet systemd-managed service, on the node labelled with name=wk8s-node-1, to launch a pod containing a single container of Image http://dname/webtool automatically. Any spec files required should be placed in the /etc/kubernetes/manifests directory on the node.

You can ssh to the appropriate node using:

[student@node-1] \$ ssh wk8s-node-1

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

[student@wk8s-node-1] \$ |sudo ?Ci

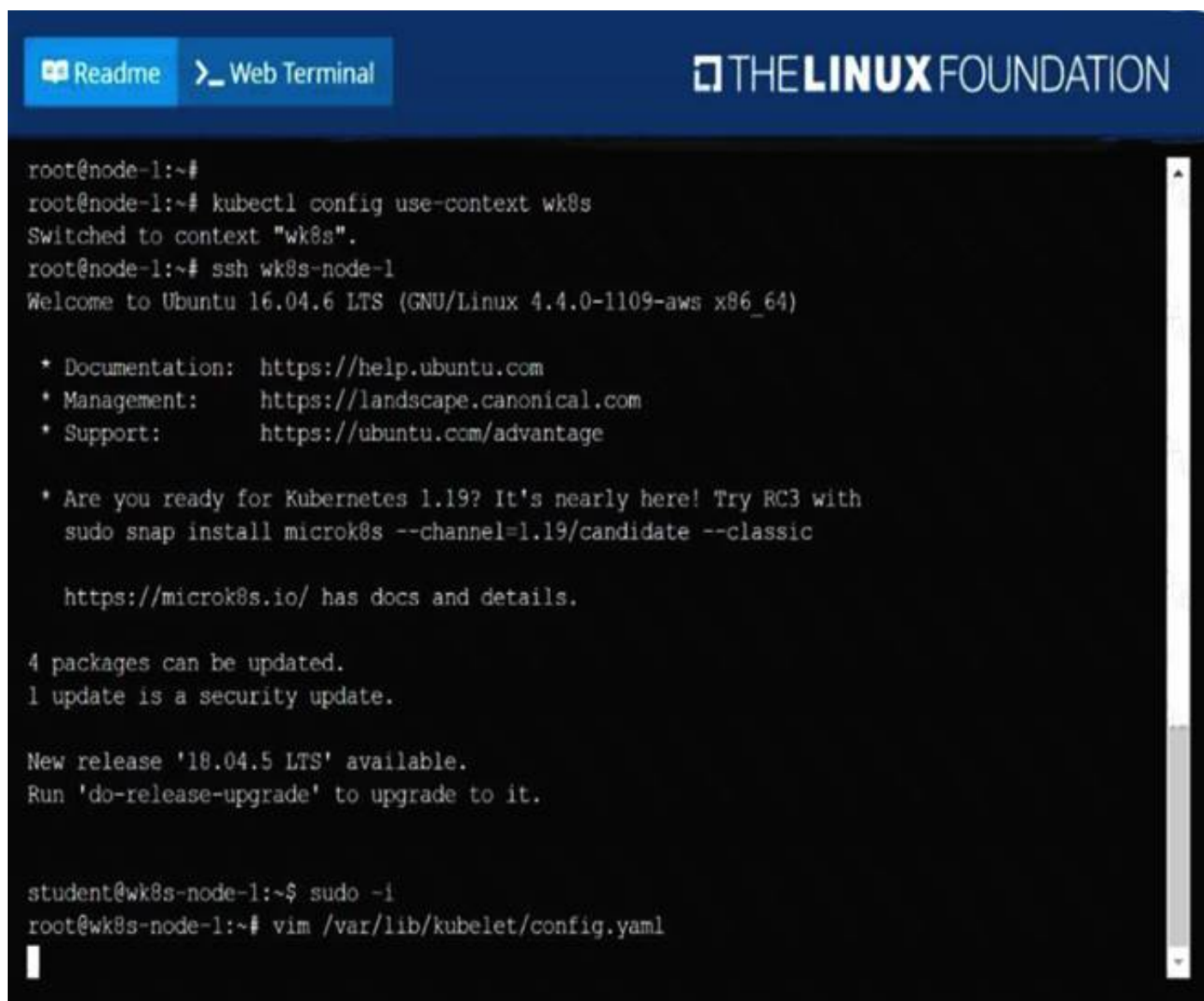
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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```

Readme Web Terminal THE LINUX FOUNDATION

root@node-1:~#
root@node-1:~# kubectl config use-context wk8s
Switched to context "wk8s".
root@node-1:~# ssh wk8s-node-1
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-1109-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

 * Are you ready for Kubernetes 1.19? It's nearly here! Try RC3 with
   sudo snap install microk8s --channel=1.19/candidate --classic

   https://microk8s.io/ has docs and details.

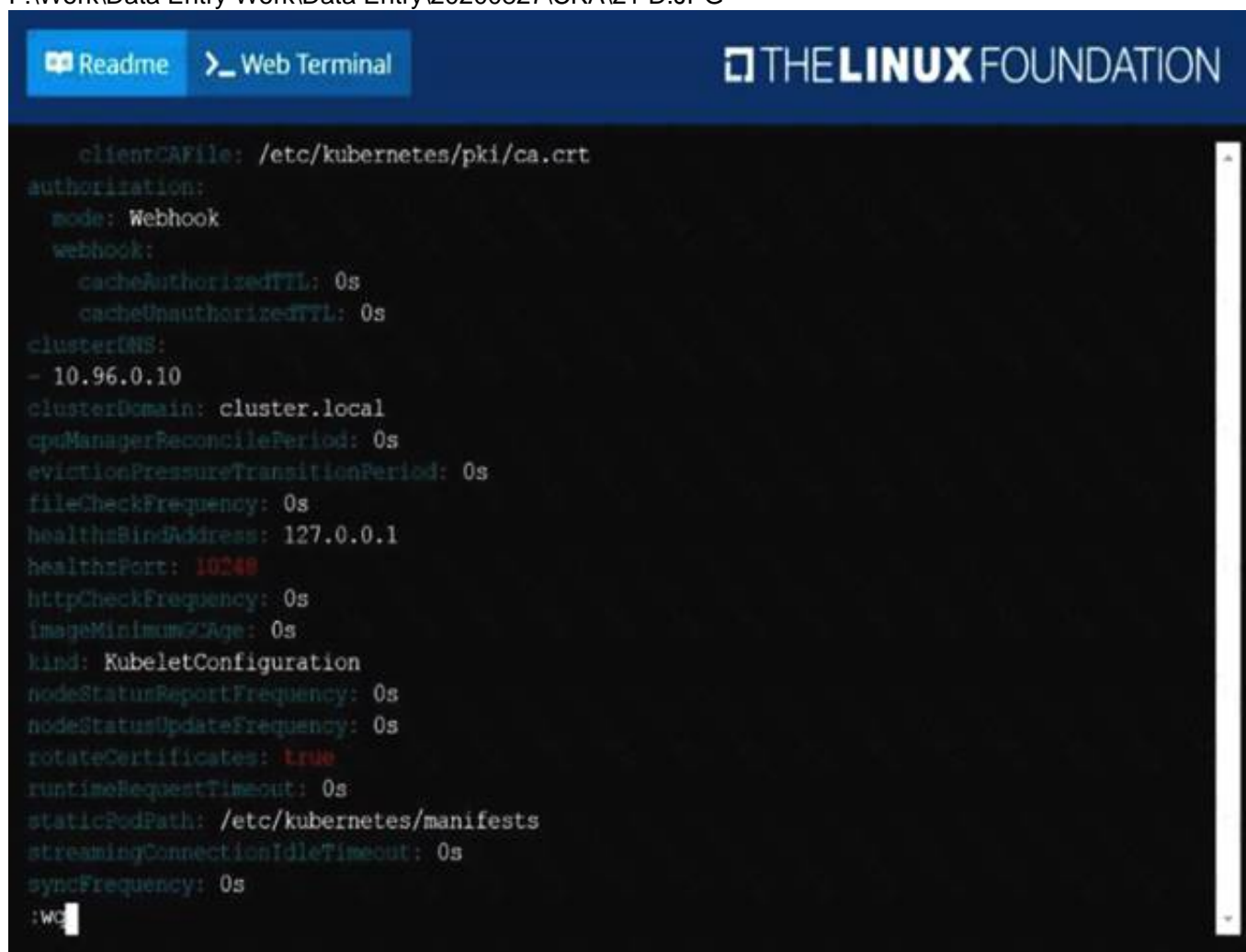
4 packages can be updated.
1 update is a security update.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

student@wk8s-node-1:~$ sudo -i
root@wk8s-node-1:~# vim /var/lib/kubelet/config.yaml

```

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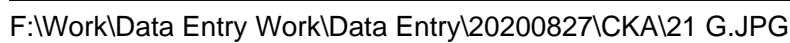
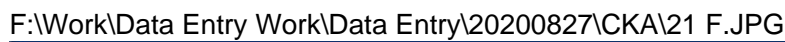
```

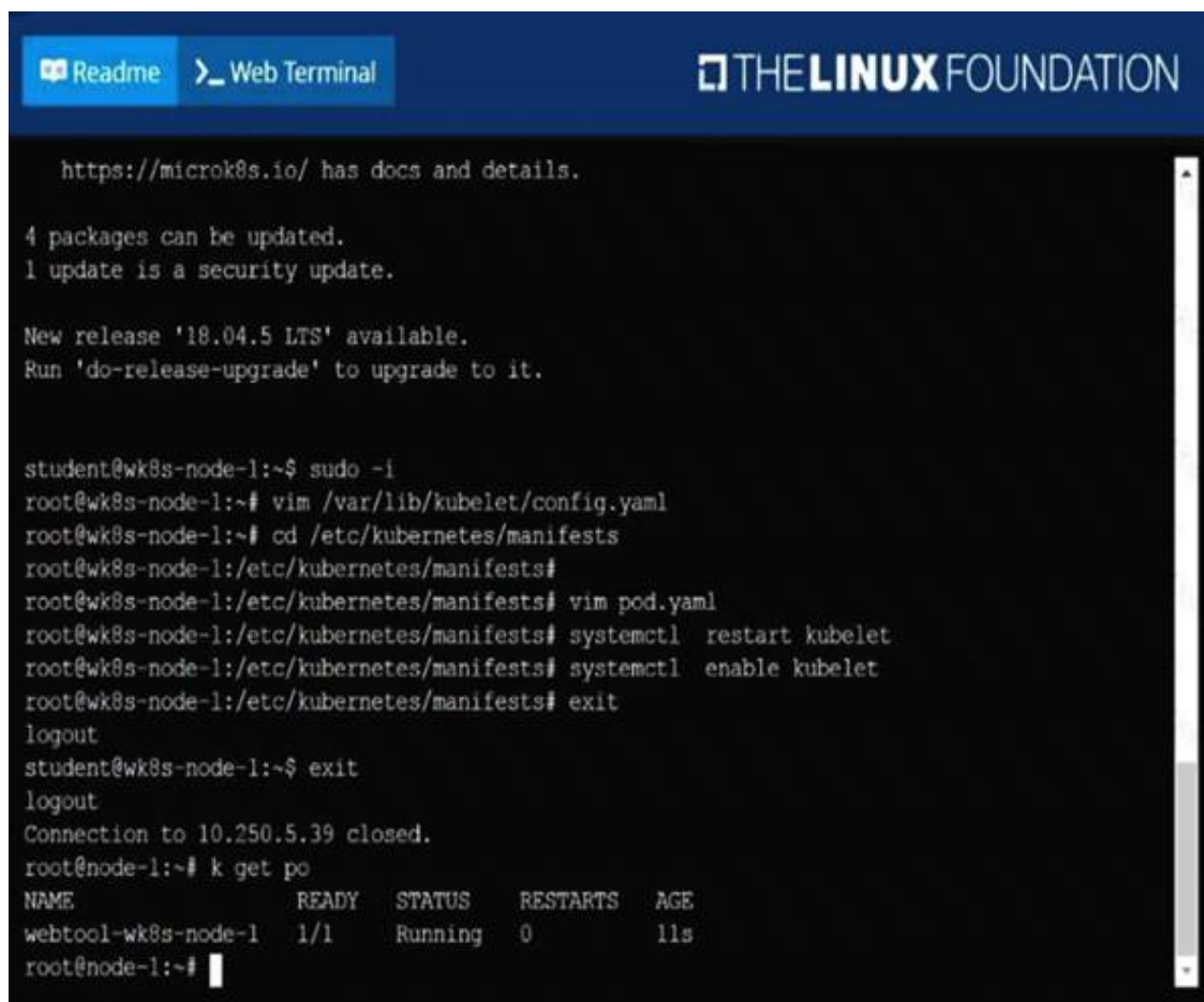
Readme Web Terminal THE LINUX FOUNDATION

clientCAFile: /etc/kubernetes/pki/ca.crt
authorization:
  mode: Webhook
  webhook:
    cacheAuthorizedTTL: 0s
    cacheUnauthorizedTTL: 0s
clusterDNS:
- 10.96.0.10
clusterDomain: cluster.local
cpuManagerReconcilePeriod: 0s
evictionPressureTransitionPeriod: 0s
fileCheckFrequency: 0s
healthzBindAddress: 127.0.0.1
healthzPort: 10248
httpCheckFrequency: 0s
imageMinimumGCAge: 0s
kind: KubeletConfiguration
nodeStatusReportFrequency: 0s
nodeStatusUpdateFrequency: 0s
rotateCertificates: true
runtimeRequestTimeout: 0s
staticPodPath: /etc/kubernetes/manifests
streamingConnectionIdleTimeout: 0s
syncFrequency: 0s
:WC

```

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```

https://microk8s.io/ has docs and details.

4 packages can be updated.
1 update is a security update.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

student@wk8s-node-1:~$ sudo -i
root@wk8s-node-1:~# vim /var/lib/kubelet/config.yaml
root@wk8s-node-1:~# cd /etc/kubernetes/manifests
root@wk8s-node-1:/etc/kubernetes/manifests#
root@wk8s-node-1:/etc/kubernetes/manifests# vim pod.yaml
root@wk8s-node-1:/etc/kubernetes/manifests# systemctl restart kubelet
root@wk8s-node-1:/etc/kubernetes/manifests# systemctl enable kubelet
root@wk8s-node-1:/etc/kubernetes/manifests# exit
logout
student@wk8s-node-1:~$ exit
logout
Connection to 10.250.5.39 closed.
root@node-1:~# k get po
NAME                READY   STATUS    RESTARTS   AGE
webtool-wk8s-node-1  1/1     Running   0           11s
root@node-1:~#

```

NEW QUESTION 10

From the pod labelname=cpu-utilizer, find podsrunning high CPU workloads and write the name of the pod consumingmost CPU to thefile/opt/KUTR00102/KUTR00102.txt(which already exists).

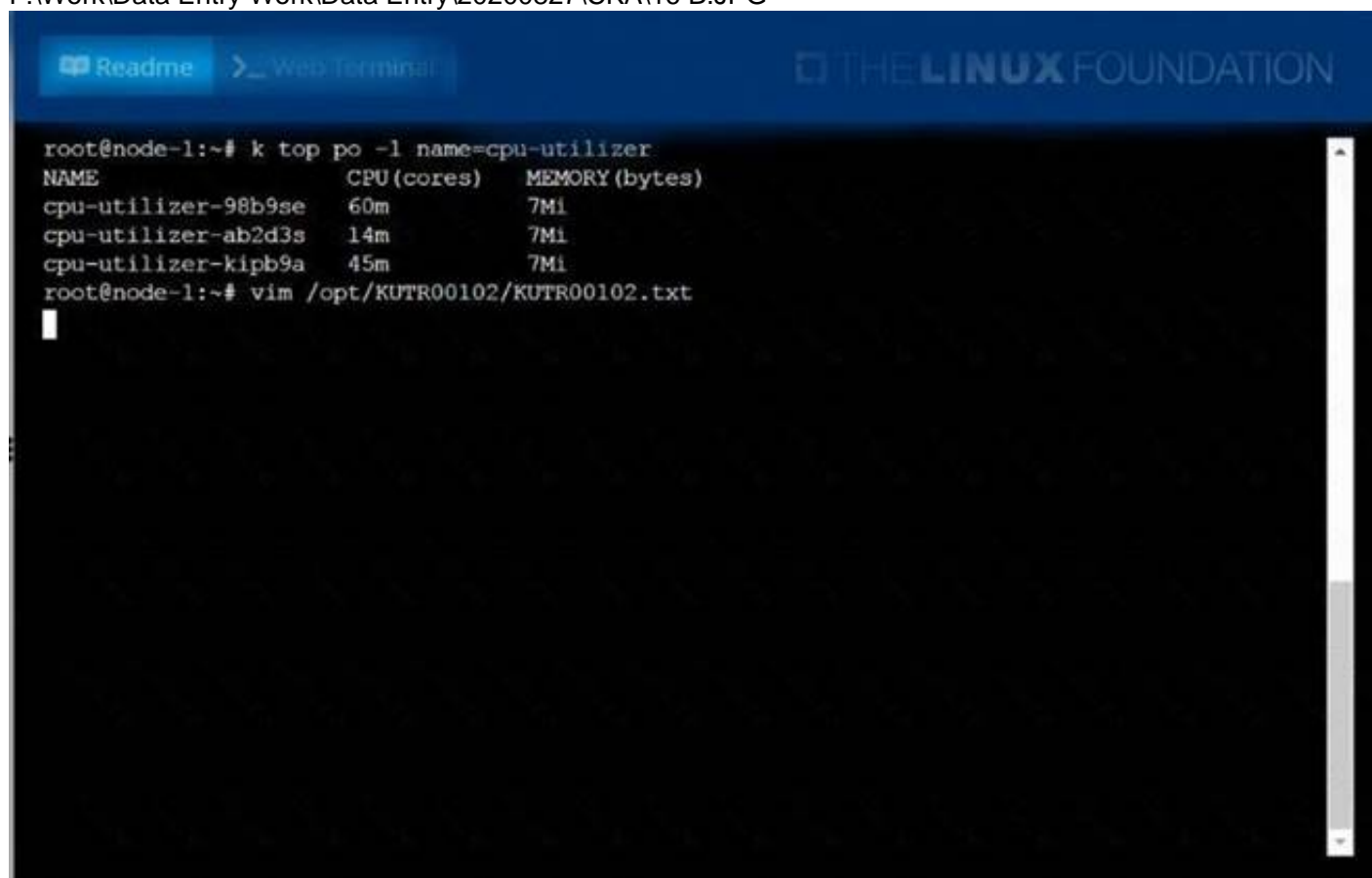
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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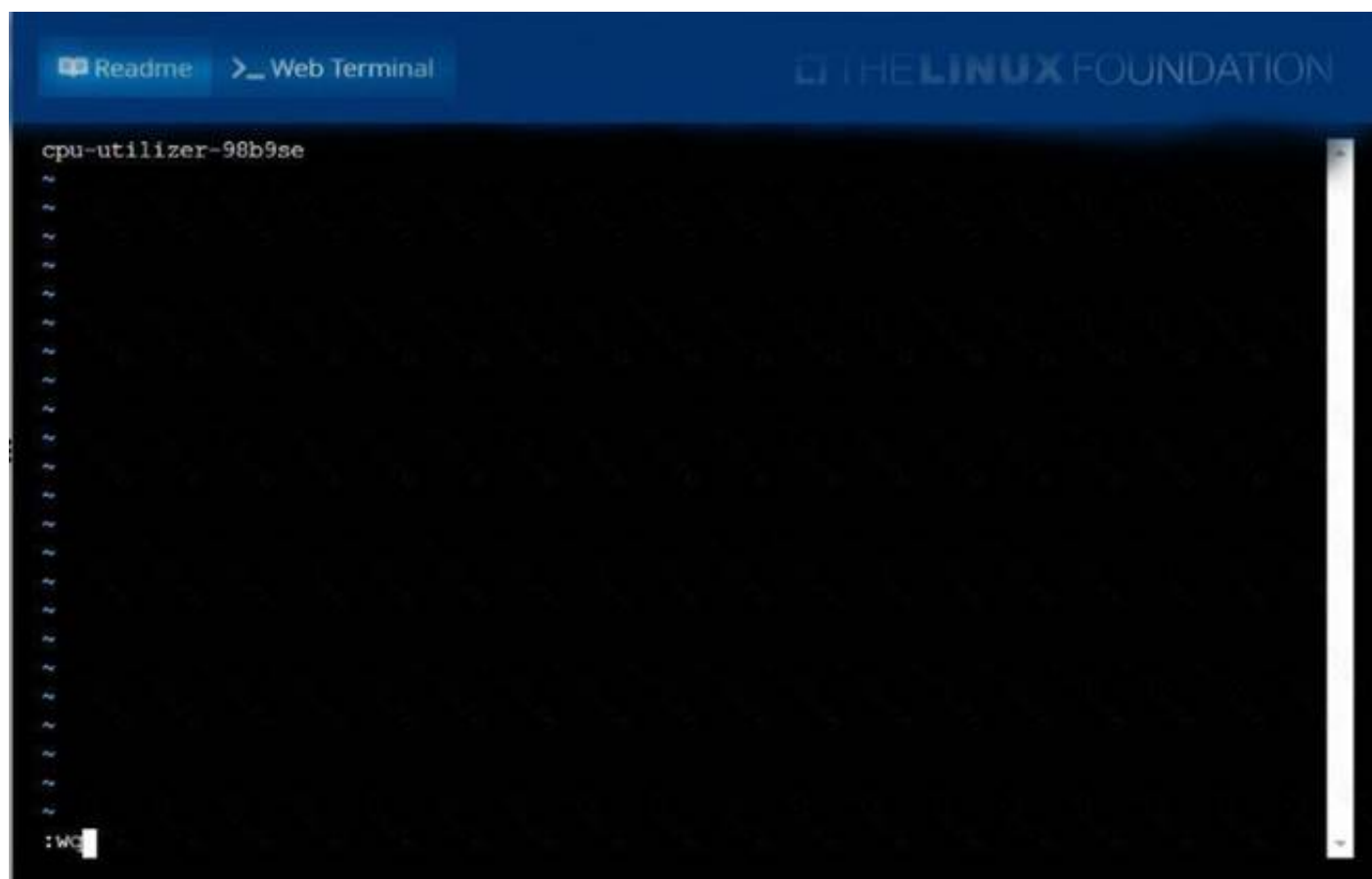


```

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

```

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NEW QUESTION 11

Create and configure the service front-end-services so it's accessible through NodePort and routes to the existing pod named front-end.

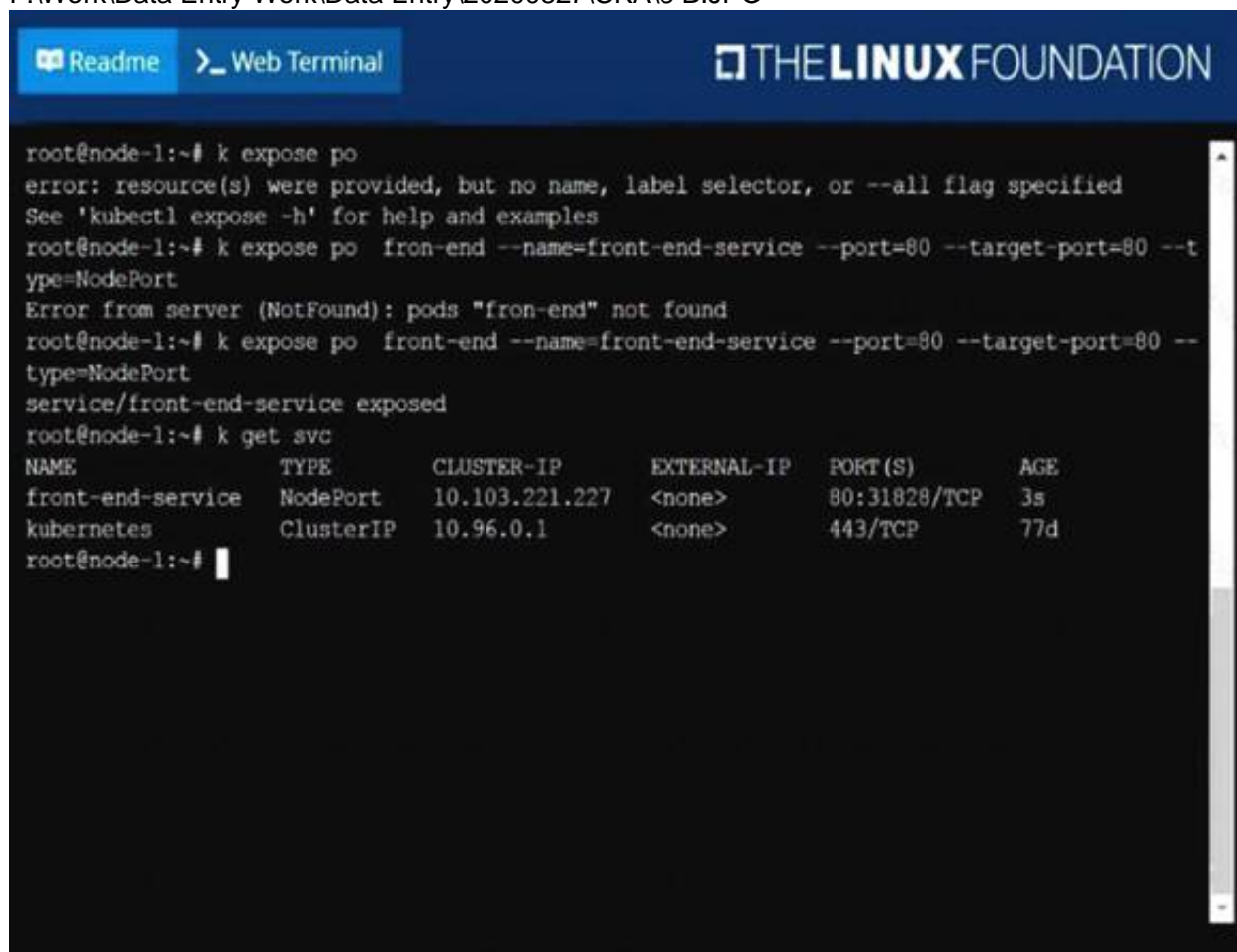
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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NEW QUESTION 15

Get IP address of the pod ?C ??nginx-dev??

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Kubect1 get po -o wide Using JsonPath

kubect1 get pods -o=jsonpath='{range items[*]}{.metadata.name}{\t"}{.status.podIP}{\n"}{end}'

NEW QUESTION 18

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 23

Create an nginx pod and list the pod with different levels of verbosity

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
// create a pod
```

```
kubectl run nginx --image=nginx --restart=Never --port=80
```

```
// List the pod with different verbosity kubectl get po nginx --v=7
```

```
kubectl get po nginx --v=8 kubectl get po nginx --v=9
```

NEW QUESTION 28

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