

## Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

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



### NEW QUESTION 1

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 lookup the DNS records of the service & pod and write the output to `/opt/KUNW00601/service.dns` and `/opt/KUNW00601/pod.dns` respectively.

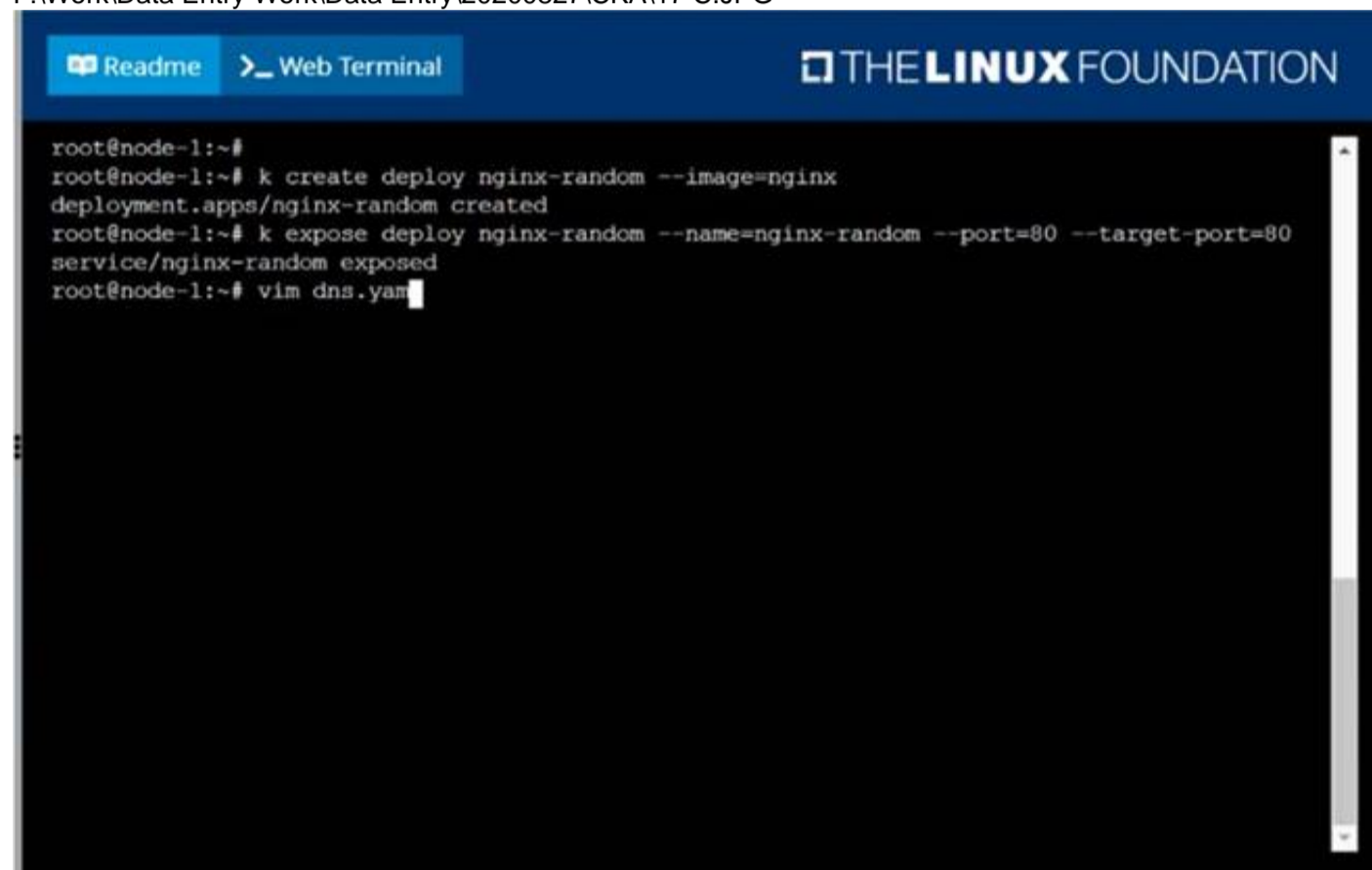
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

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```

root@node-1:~#
root@node-1:~# k create deploy nginx-random --image=nginx
deployment.apps/nginx-random created
root@node-1:~# k expose deploy nginx-random --name=nginx-random --port=80 --target-port=80
service/nginx-random exposed
root@node-1:~# vim dns.yaml
  
```

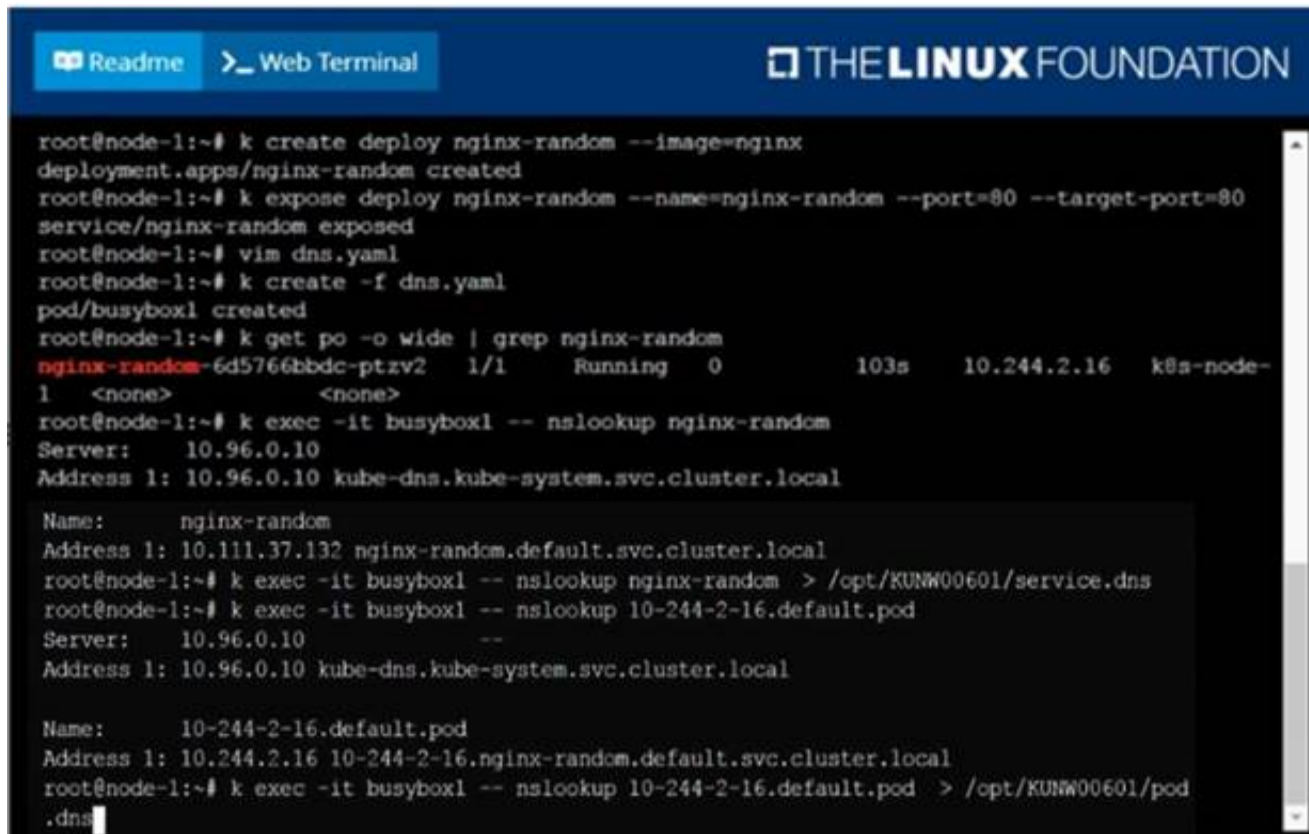
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```

apiVersion: v1
kind: Pod
metadata:
  name: busybox1
  labels:
    name: busybox
spec:
  containers:
  - image: busybox:1.28
    command:
      - sleep
      - "3600"
    name: busybox
  
```

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```
root@node-1:~# k create deploy nginx-random --image=nginx
deployment.apps/nginx-random created
root@node-1:~# k expose deploy nginx-random --name=nginx-random --port=80 --target-port=80
service/nginx-random exposed
root@node-1:~# vim dns.yaml
root@node-1:~# k create -f dns.yaml
pod/busybox1 created
root@node-1:~# k get po -o wide | grep nginx-random
nginx-random-6d5766bbdc-ptzv2 1/1 Running 0 103s 10.244.2.16 k8s-node-1 <none> <none>
root@node-1:~# k exec -it busybox1 -- nslookup nginx-random
Server: 10.96.0.10
Address 1: 10.96.0.10 kube-dns.kube-system.svc.cluster.local

Name: nginx-random
Address 1: 10.111.37.132 nginx-random.default.svc.cluster.local
root@node-1:~# k exec -it busybox1 -- nslookup nginx-random > /opt/KUNW00601/service.dns
root@node-1:~# k exec -it busybox1 -- nslookup 10-244-2-16.default.pod
Server: 10.96.0.10
Address 1: 10.96.0.10 kube-dns.kube-system.svc.cluster.local

Name: 10-244-2-16.default.pod
Address 1: 10.244.2.16 10-244-2-16.nginx-random.default.svc.cluster.local
root@node-1:~# k exec -it busybox1 -- nslookup 10-244-2-16.default.pod > /opt/KUNW00601/pod.dns
```

## NEW QUESTION 2

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.

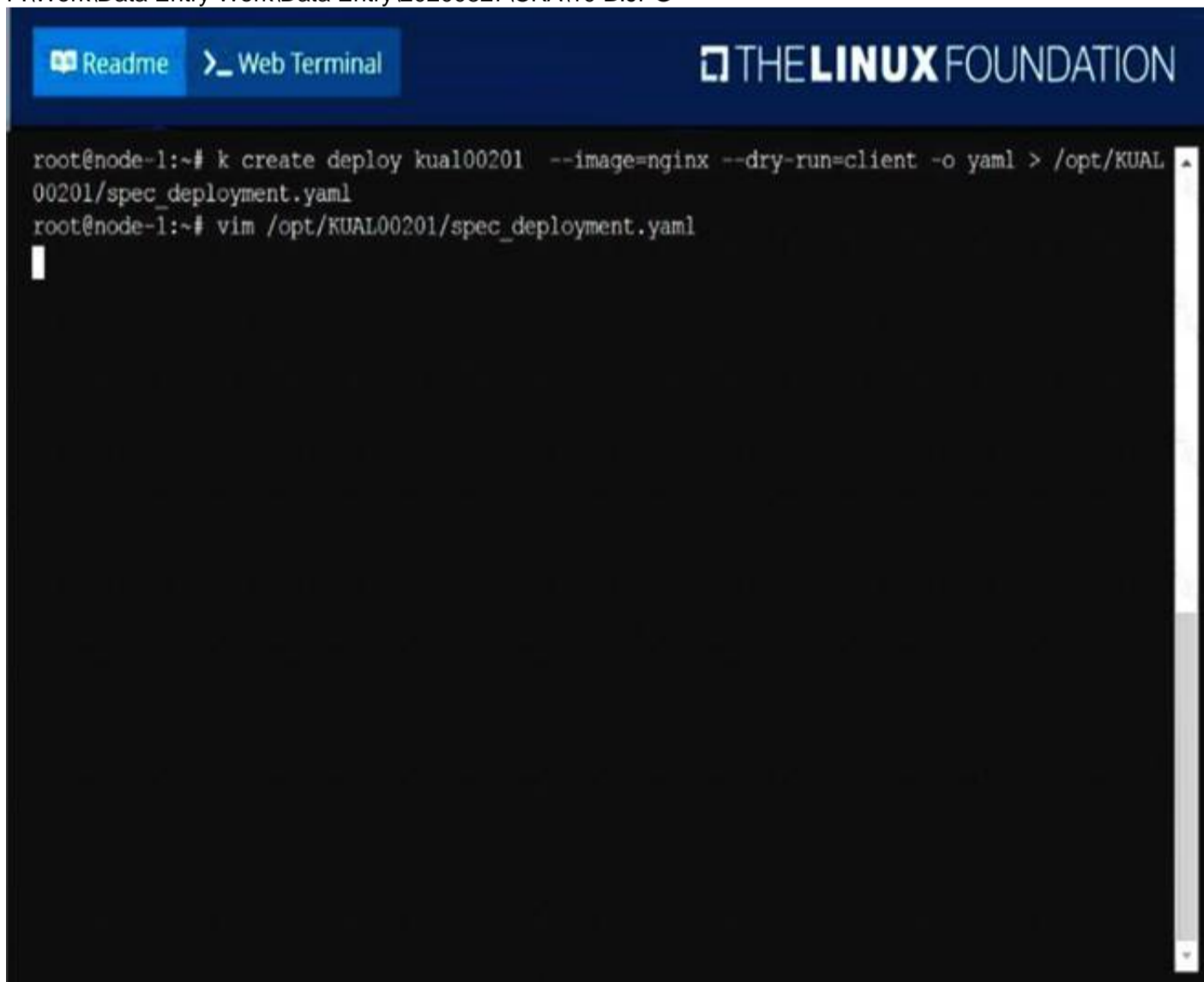
- A. Mastered
- B. Not Mastered

Answer: A

## Explanation:

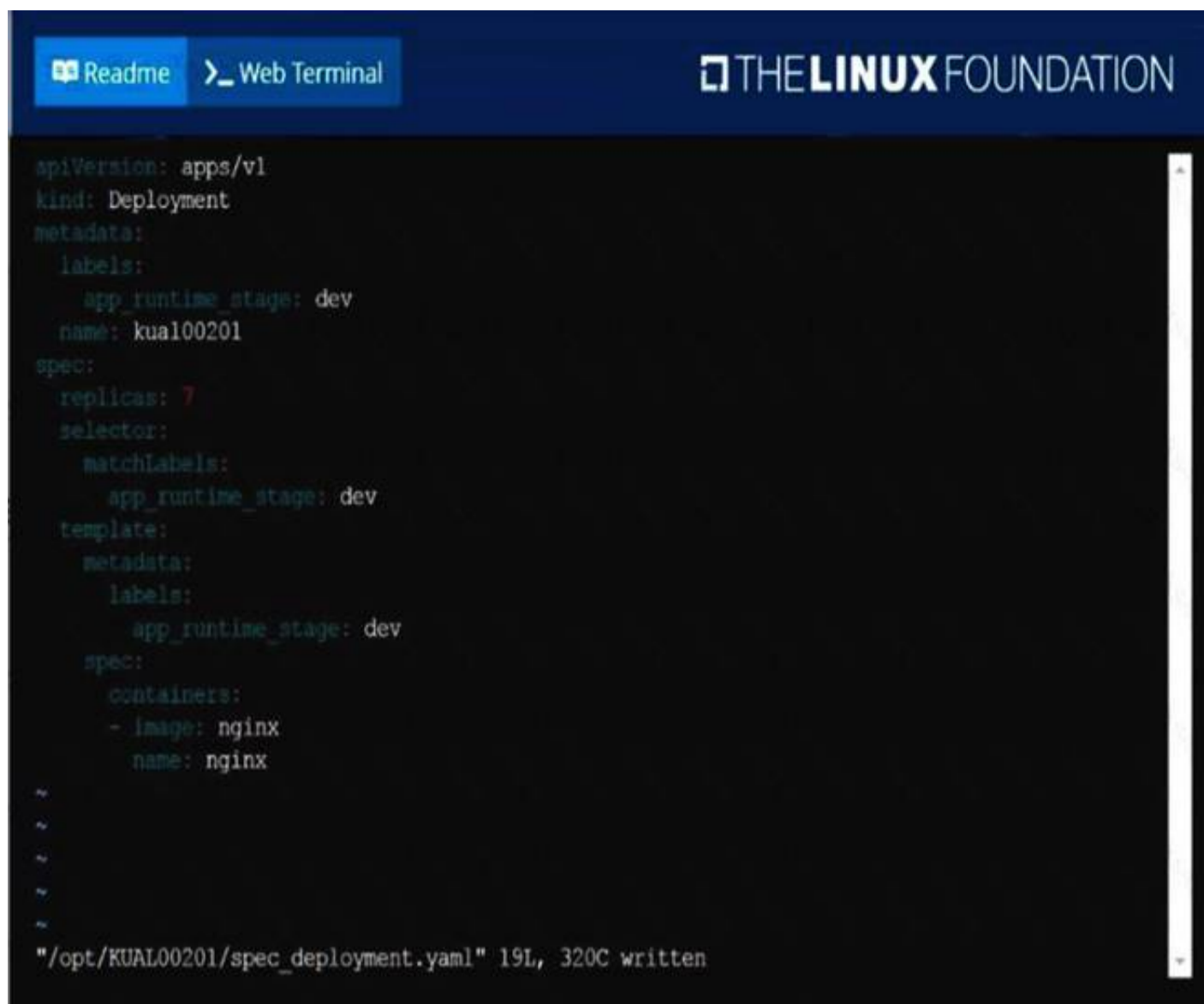
solution

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```
root@node-1:~# k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL00201/spec_deployment.yaml
root@node-1:~# vim /opt/KUAL00201/spec_deployment.yaml
```

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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, displaying a Kubernetes deployment YAML file. The text 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, it says: `"/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

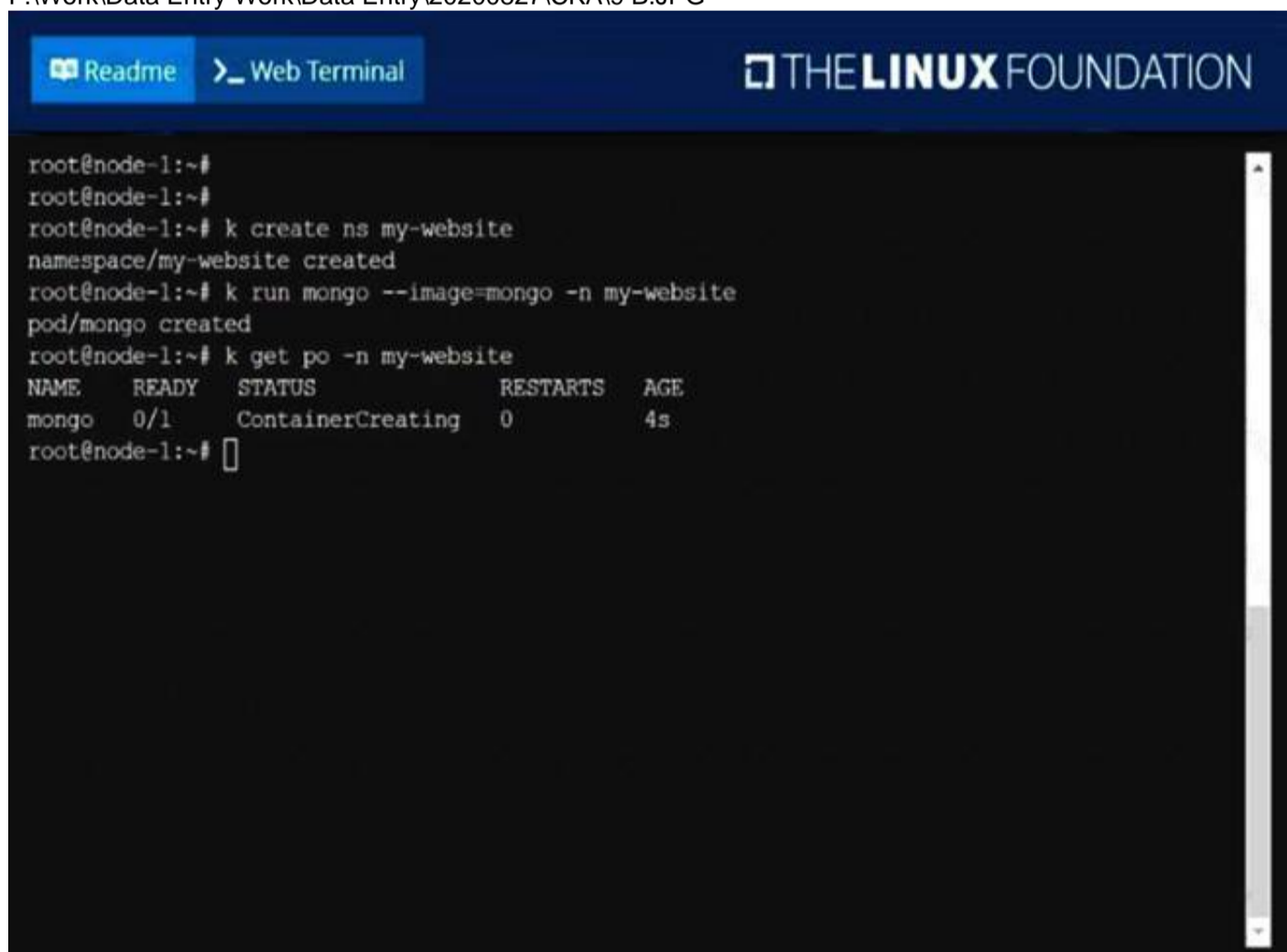
- A. Mastered
- B. Not Mastered

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, displaying a series of Kubernetes commands and their output. The text is 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

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 5

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

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

```
kubectlrn nginx --image=nginx --restart=Never --port=80
```

#### NEW QUESTION 6

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 -nengineering-f ?C
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 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

A Kubernetes worker node, named `wk8s-node-0` is in state `NotReady`. Investigate why this is the case, and perform any appropriate steps to bring the node to a `Ready` state, ensuring that any changes are made permanent.

You can `ssh` to the failed node using:

```
[student@node-1] $ | ssh wk8s-node-0
```

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

```
[student@wk8s-node-0] $ | sudo ?C
```

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

solution  
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Readme
Web Terminal
THE **LINUX** FOUNDATION

```

root@node-1:~# kubectl config use-context wk8s
Switched to context "wk8s".
root@node-1:~# k get nodes
NAME             STATUS    ROLES    AGE   VERSION
wk8s-master-0    Ready     master   77d   v1.18.2
wk8s-node-0      NotReady  <none>    77d   v1.18.2
wk8s-node-1      Ready     <none>    77d   v1.18.2
root@node-1:~# ssh wk8s-node-0

```

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Readme
Web Terminal
THE **LINUX** FOUNDATION

```

wk8s-node-0      NotReady  <none>    77d   v1.18.2
wk8s-node-1      Ready     <none>    77d   v1.18.2
root@node-1:~# ssh wk8s-node-0
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.

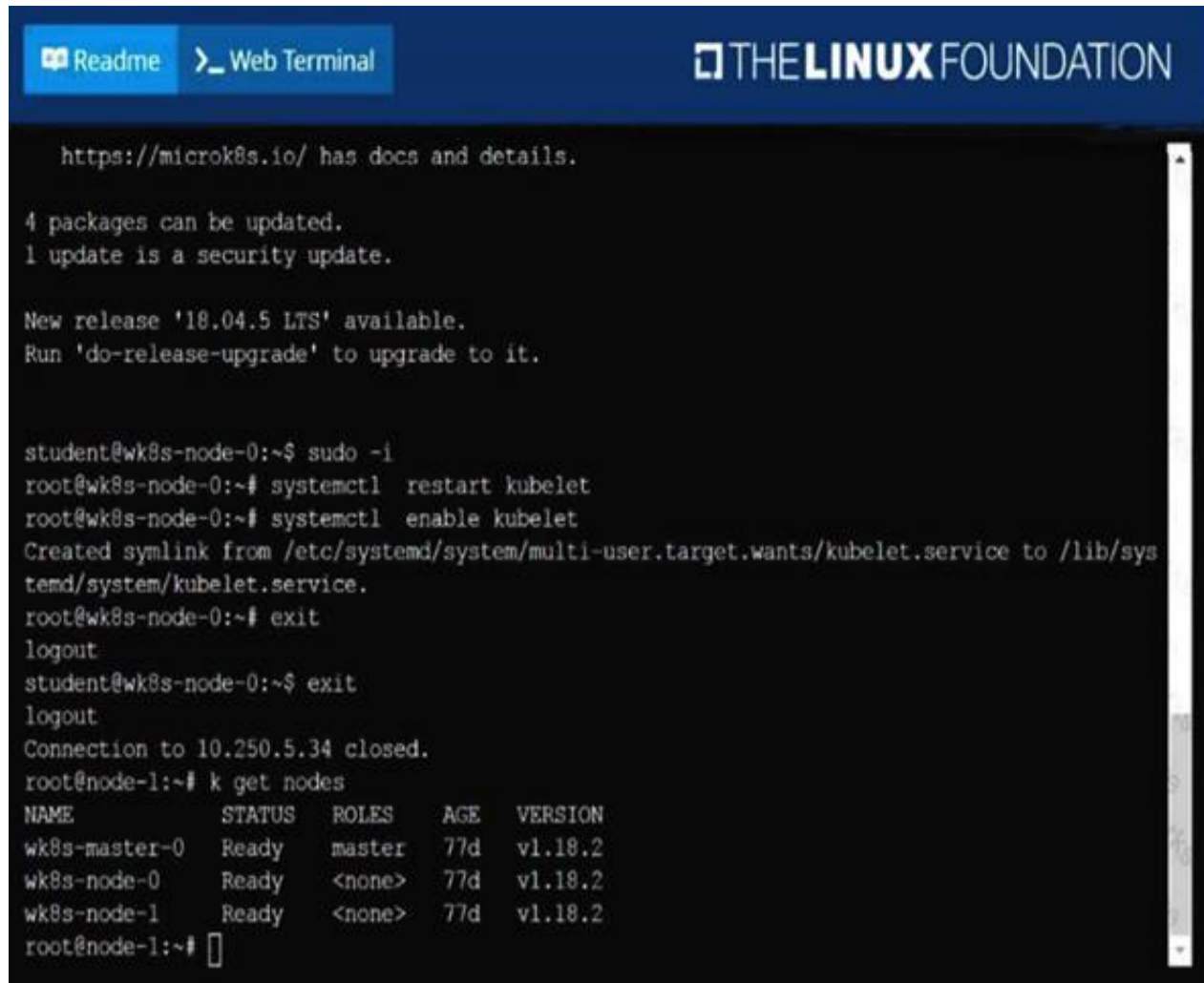
4 packages can be updated.
1 update is a security update.

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

student@wk8s-node-0:~$ sudo -i
root@wk8s-node-0:~# systemctl restart kubelet
root@wk8s-node-0:~# systemctl enable kubelet

```

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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-0:~$ sudo -i
root@wk8s-node-0:~# systemctl restart kubelet
root@wk8s-node-0:~# systemctl enable kubelet
Created symlink from /etc/systemd/system/multi-user.target.wants/kubelet.service to /lib/systemd/system/kubelet.service.
root@wk8s-node-0:~# exit
logout
student@wk8s-node-0:~$ exit
logout
Connection to 10.250.5.34 closed.
root@node-1:~# k get nodes
NAME             STATUS    ROLES    AGE   VERSION
wk8s-master-0    Ready    master   77d   v1.18.2
wk8s-node-0      Ready    <none>   77d   v1.18.2
wk8s-node-1      Ready    <none>   77d   v1.18.2
root@node-1:~#

```

#### NEW QUESTION 9

Check the Image version of nginx-dev pod using jsonpath

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

kubect1 get po nginx-dev -o jsonpath='{.spec.containers[].image}{"\n"}'

#### NEW QUESTION 10

For this item, you will havetossh to the nodesik8s-master-0andik8s-node-0and complete all tasks on thesenodes. Ensure that you return tothe base node (hostname:node-1) when you havecompleted this item.

Context

As an administrator of a smalldevelopment team, you have beenasked to set up a Kubernetes clusterto test the viability of a newapplication.

Task

You must usekubeadmto performthis task. Anykubeadminvocationswill require the use of the

--ignore-preflight-errors=alloption.

- > Configure thenodeik8s-master-0as a masternode. .
- > Join the nodeik8s-node-0tothe cluster.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

solution

You must use thekubeadmconfiguration file located at/etc/kubeadm.confwhen initializingyour cluster.

You may use any CNI plugin to complete this task, but ifyou don't have your favouriteCNI plugin's manifest URL athand, Calico is one popularoption:<https://docs.projectcalico.org/v3.14/manifests/calico.yaml>

Docker is already installedon both nodes andapthasbeen configured so that you caninstall the required tools.

#### NEW QUESTION 10

List all the pods showing name and namespace with a json path expression

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

kubect1 get pods -o=jsonpath='{.items[\*]}['metadata.name', 'metadata.namespace']}'

#### NEW QUESTION 11

Create a snapshot of theetcdinstance running athttps://127.0.0.1:2379, saving thesnapshot to the file path /srv/data/etcd-snapshot.db.

The following TLS certificates/key are supplied for connecting to the server with etcdctl:

- > CA certificate: /opt/KUCM00302/ca.crt
- > Client certificate: /opt/KUCM00302/etcd-client.crt
- > Client key: /opt/KUCM00302/etcd-client.key

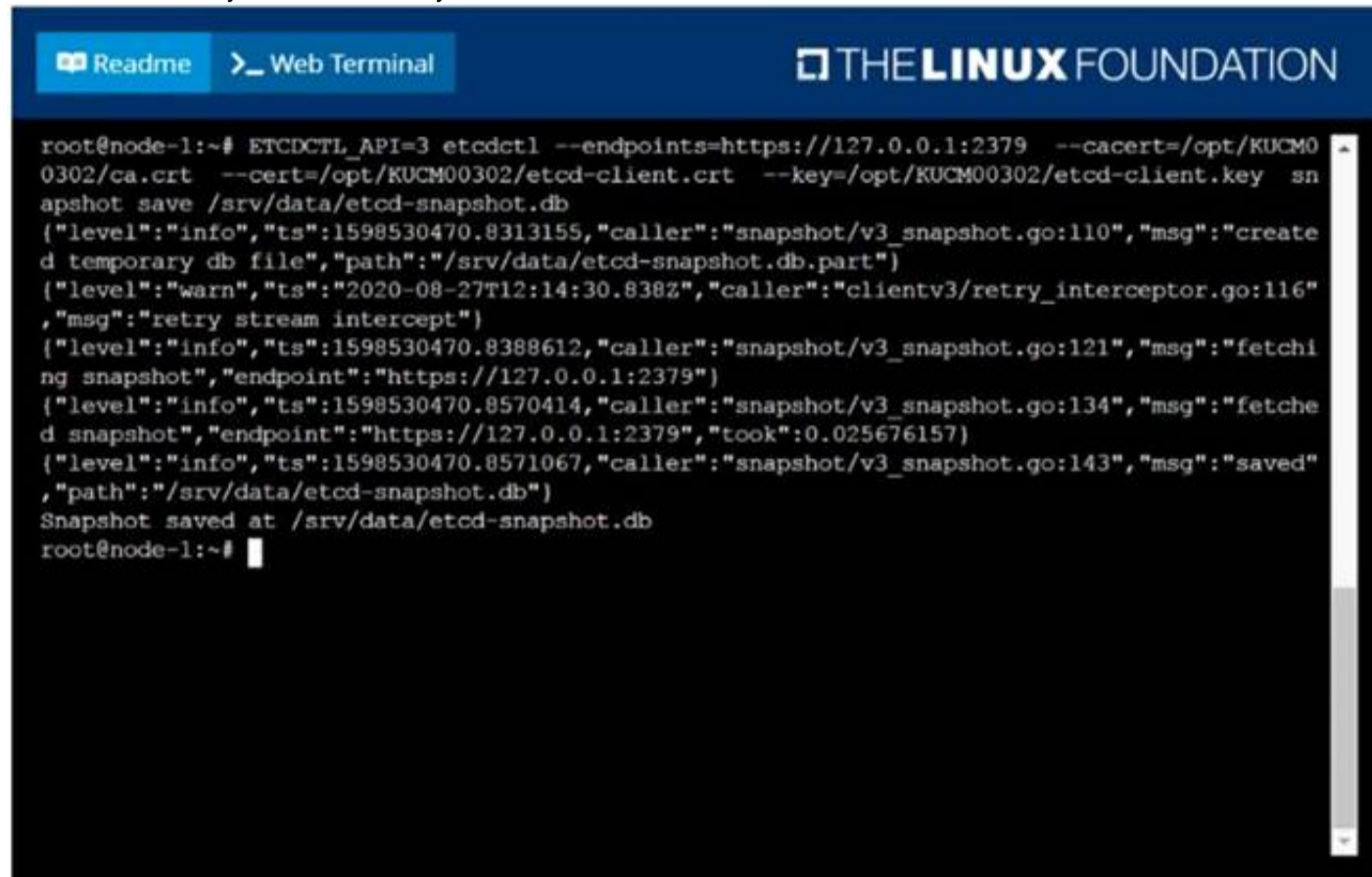
- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

solution

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```
root@node-1:~# ETCDCTL_API=3 etcdctl --endpoints=https://127.0.0.1:2379 --cacert=/opt/KUCM00302/ca.crt --cert=/opt/KUCM00302/etcd-client.crt --key=/opt/KUCM00302/etcd-client.key snapshot save /srv/data/etcd-snapshot.db
{"level":"info","ts":1598530470.8313155,"caller":"snapshot/v3_snapshot.go:110","msg":"created temporary db file","path":"/srv/data/etcd-snapshot.db.part"}
{"level":"warn","ts":"2020-08-27T12:14:30.838Z","caller":"clientv3/retry_interceptor.go:116","msg":"retry stream intercept"}
{"level":"info","ts":1598530470.8388612,"caller":"snapshot/v3_snapshot.go:121","msg":"fetching snapshot","endpoint":"https://127.0.0.1:2379"}
{"level":"info","ts":1598530470.8570414,"caller":"snapshot/v3_snapshot.go:134","msg":"fetched snapshot","endpoint":"https://127.0.0.1:2379","took":0.025676157}
{"level":"info","ts":1598530470.8571067,"caller":"snapshot/v3_snapshot.go:143","msg":"saved","path":"/srv/data/etcd-snapshot.db"}
Snapshot saved at /srv/data/etcd-snapshot.db
root@node-1:~#
```

**NEW QUESTION 13**

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 18**

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