

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 servicenginx-random
- > Ensure that the service & podare accessible via theirrespective DNS records
- > The container(s) within anypod(s) running as a part of thisdeployment should use thenginxImage

Next, use the utilitynslookupto lookup the DNS records of the service &pod and write the output to /opt/KUNW00601/service.dnsand/opt/KUNW00601/pod.dnsrespectively.

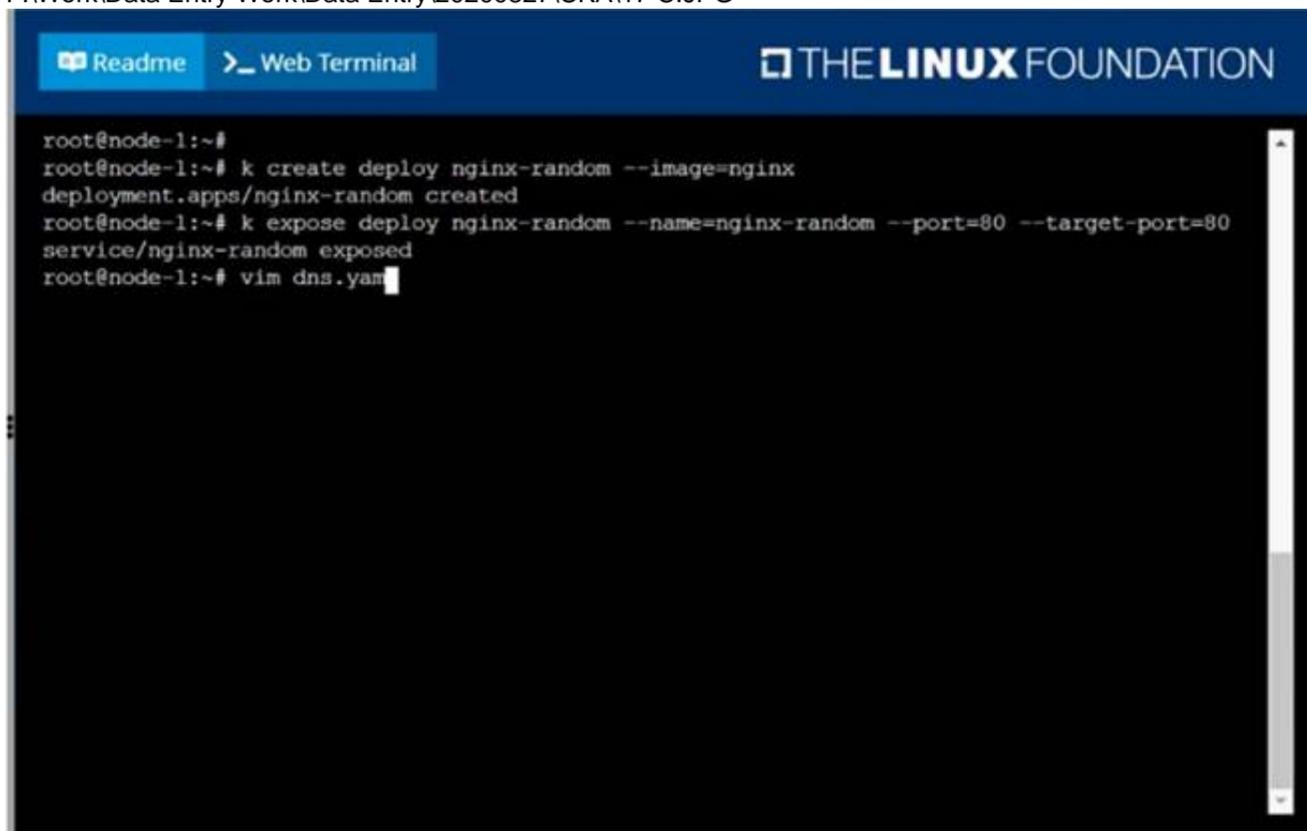
- A. Mastered
- B. Not Mastered

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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```
Readme Web Terminal THE LINUX FOUNDATION
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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```
Readme Web Terminal THE LINUX FOUNDATION
root@node-1:~# k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL
00201/spec_deployment.yaml
root@node-1:~# vim /opt/KUAL00201/spec_deployment.yaml
```

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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 -
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 -i
```

- 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:

kubectl get po nginx-dev -o jsonpath='{.spec.containers[].image}'

NEW QUESTION 10

For this item, you will have to ssh to the nodes `wk8s-master-0` and `wk8s-node-0` and complete all tasks on these nodes. Ensure that you return to the base node (hostname: `node-1`) when you have completed this item.

Context

As an administrator of a small development team, you have been asked to set up a Kubernetes cluster to test the viability of a new application.

Task

You must use `kubeadm` to perform this task. Any `kubeadm` invocations will require the use of the `--ignore-preflight-errors=all` option.

- > Configure the node `wk8s-master-0` as a master node.
- > Join the node `wk8s-node-0` to the cluster.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution
 You must use the `kubeadm` configuration file located at `/etc/kubeadm.conf` when initializing your cluster.
 You may use any CNI plugin to complete this task, but if you don't have your favourite CNI plugin's manifest URL at hand, Calico is one popular option: <https://docs.projectcalico.org/v3.14/manifests/calico.yaml>
 Docker is already installed on both nodes and `ipvs` has been configured so that you can install 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:

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

NEW QUESTION 11

Create a snapshot of the `etcd` instance running at `https://127.0.0.1:2379`, saving the snapshot to the file path `/srv/data/etcd-snapshot.db`.

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

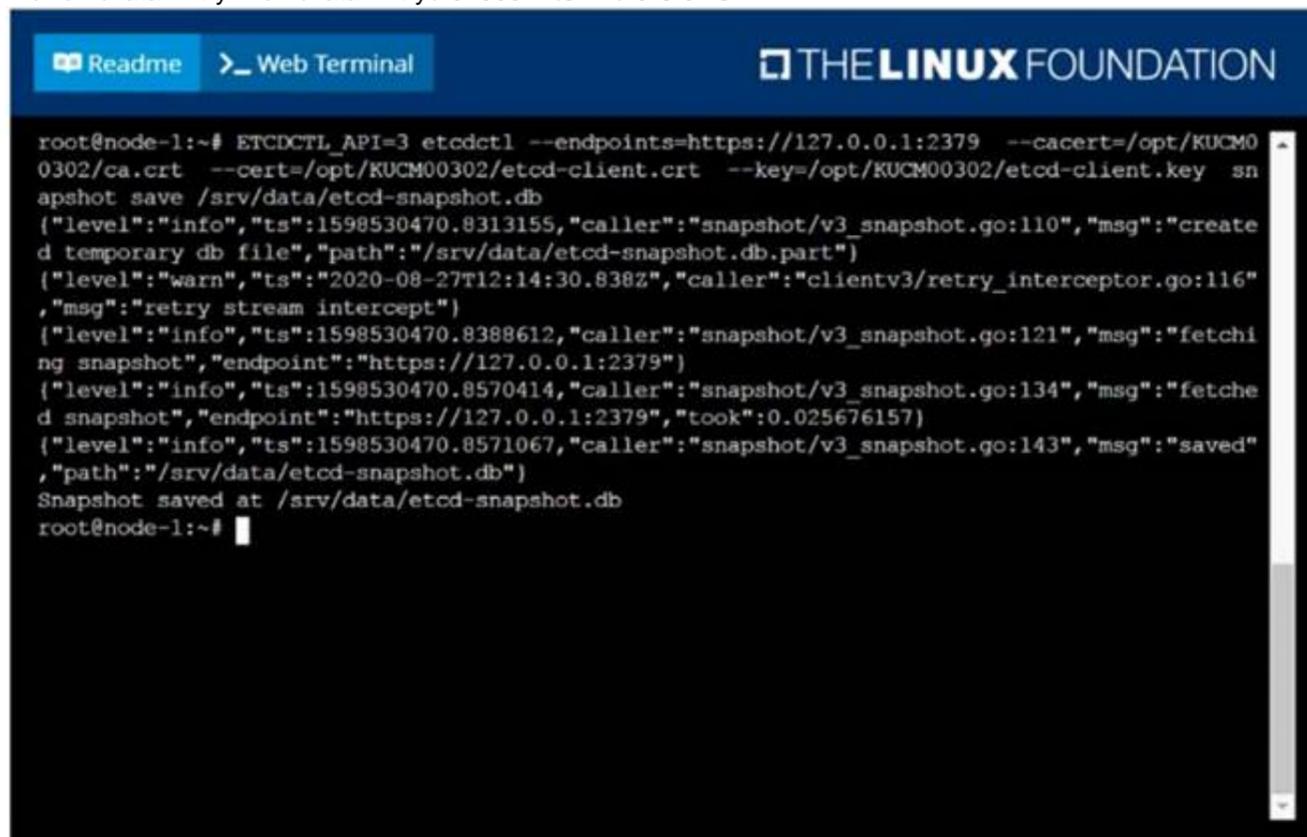
- > CA certificate: /opt/KUCM00302/ca.crt
- > Client certificate: /opt/KUCM00302/etcd-client.crt
- > Client key: /opt/KUCM00302/etcd-client.key

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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