

⇒ Vendor: **Linux Foundation**

⇒ Exam Code: **CKA**

⇒ Exam Name: **Certified Kubernetes Administrator (CKA) Program Exam**

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Linux Foundation

NEW QUESTION 32

create a pod in a specific node (node1) by placing the pod definition file in a particular folder "/etc/kubernetes/manifests".

A. Generate YAML before we SSH to the specific node, then copy the YAML into the exam notepad to use it after SSH into worker node.

SSH to the node: "ssh node1"

Gain admin privileges to the node: "sudo -i"

Move to the manifest-path "cd /etc/kubernetes/manifests"

Place the generated YAML into the folder "vi nginx.yaml"

Find the kubelet config file path "ps -aux | grep kubelet". This will output information on kubelet process. Locate the kubelet config file location.

kubelet config file -- /var/lib/kubelet/config.yaml

Edit the config file "vi /var/lib/kubelet/config.yaml" to add staticPodPath

staticPodPath: /etc/kubernetes/manifests

Restart the kubelet "systemctl restart kubelet"

B. Generate YAML before we SSH to the specific node, then copy the YAML into the exam notepad to use it after SSH into worker node.

SSH to the node: "ssh node1"

Gain admin privileges to the node: "sudo -i"

Move to the manifest-path "cd /etc/kubernetes/manifests"

kubelet config file -- /var/lib/kubelet/config.yaml
Edit the config file "vi /var/lib/kubelet/config.yaml" to add
staticPodPath
staticPodPath: /etc/kubernetes/manifests
Restart the kubelet "systemctl restart kubelet"

Answer: A

NEW QUESTION 33

Ensure a single instance of pod nginx is running on each node of the Kubernetes cluster where nginx also represents the Image name which has to be used. Do not override any taints currently in place.
Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.

Answer:

Explanation:

See the solution below.

Explanation

solution



```

ps/v1
et

d-elasticsearch
kubernetes-system

Fluentd-logging

S:
fluentd-elasticsearch

```

```
ops/v1
et
ec00201
S:
uentd-elasticsearch
fluentd-elasticsearch
```



The screenshot shows a web terminal window titled 'Web Terminal' with 'THE LINUX FOUNDATION' logo. The terminal output shows the following commands and results:

```
root@node-1:~# vim ds.yaml
iroot@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
```

NAME	DESIRED	CURRENT	READY	UP-TO-DATE	AVAILABLE	NODE SELECTOR	AGE
ds-kusc00201	2	2	2	2	2	<none>	4s

root@node-1:~#

NEW QUESTION 34

Check to see how many worker nodes are ready (not including nodes tainted NoSchedule) and write the number to /opt/KUCC00104/kucc00104.txt.

Answer:

Explanation:

See the solution below.

Explanation

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\15 B.JPG



The screenshot shows a terminal window titled "Web Terminal" with the "THE LINUX FOUNDATION" logo in the top right. The terminal output shows the following commands and results:

```
root@node-1:~# k scale deploy webserver --replicas=6
deployment.apps/webserver scaled
root@node-1:~# k get deploy
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
nginx-app     3/3     3             3           29m
webserver     6/6     6             6           6h50m
root@node-1:~#
root@node-1:~# k get nodes
NAME           STATUS    ROLES    AGE   VERSION
k8s-master-0   Ready     master   77d   v1.18.2
k8s-node-0     Ready     node     77d   v1.18.2
k8s-node-1     Ready     node     77d   v1.18.2
root@node-1:~# cat /opt/KUCC00104/kucc00104.txt
```

A large diagonal watermark "www.pdfdumps.com" is visible across the terminal output.

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NEW QUESTION 35

Delete persistent volume and persistent volume claim

Answer:

Explanation:

```
kubect! delete pvc task-pv-claim kubect! delete pv task-pv-volume // Verify Kubect! get pv,pvc
```

NEW QUESTION 36

Undo the deployment with the previous version and verify everything is Ok

Answer:

Explanation:

```
kubect! rollout undo deploy webapp kubect! rollout status deploy webapp kubect! get pods
```

NEW QUESTION 37

Create a redis pod named "test-redis" and exec into that pod and create a file named "test-file.txt" with the text 'This is called the test file' in the path /data/redis and open another tab and exec again with the same pod and verifies file exist in the same path.

A. vim test-redis.yaml

apiVersion: v1

kind: Pod

metadata:

name: test-redis

spec:

containers:

- name: redis

image: redis

ports:

- containerPort: 6379

volumeMounts:

- mountPath: /data/redis

name: redis-storage

volumes:

- name: redis-storage

emptyDir: {}

kubect! apply -f redis-pod-vol.yaml

// first terminal

kubect! exec -it test-redis /bin/sh

cd /data/redis

echo 'This is called the test file' > file.txt

//open another tab

kubect! exec -it test-redis /bin/sh

cat /data/redis/file.txt

B. vim test-redis.yaml

apiVersion: v1

kind: Pod

metadata:

```
name: test-redis
spec:
containers:
- name: redis
image: redis
ports:
- containerPort: 6379
volumeMounts:
- mountPath: /data/redis
name: redis-storage
volumes:
kubect exec -it test-redis /bin/sh
cd /data/redis
echo 'This is called the test file' > file.txt
//open another tab
kubect exec -it test-redis /bin/sh
cat /data/redis/file.txt
```

Answer: A

NEW QUESTION 38

Print all pod name and all image name and write it to a file
name "/opt/pod-details.txt"

Answer:

Explanation:

```
kubect exec -it test-redis /bin/sh
cat /data/redis/file.txt
```

NEW QUESTION 39

Create a redis pod and expose it on port 6379

A. `kubect run redis --image=redis --restart=Never --port=6379`

YAML File :

apiVersion: v1

kind: Pod

metadata:

labels:

run: redis

name: redis

spec:

containers:

- image: redis

name: redis

ports:

- containerPort: 6379

Rt restartPolicy: Always

B. `kubect run redis --image=redis --restart=Never --port=6379`

YAML File :

apiVersion: v1
kind: Pod
metadata:
labels:
run: redis
name: redis
spec:
containers:
ports:
- containerPort: 6679
RestartPolicy: Always

Answer: A

NEW QUESTION 40

Get the deployment rollout status

Answer:

Explanation:

kubectl rollout status deploy webapp

NEW QUESTION 41

Create the service as type NodePort with the port 32767 for the nginx pod with the pod selector app: my-nginx

Answer:

Explanation:

kubectl run nginx --image=nginx --restart=Never -- labels=app=nginx --port=80 --dry-run -o yaml > nginx-pod.yaml

NEW QUESTION 42

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

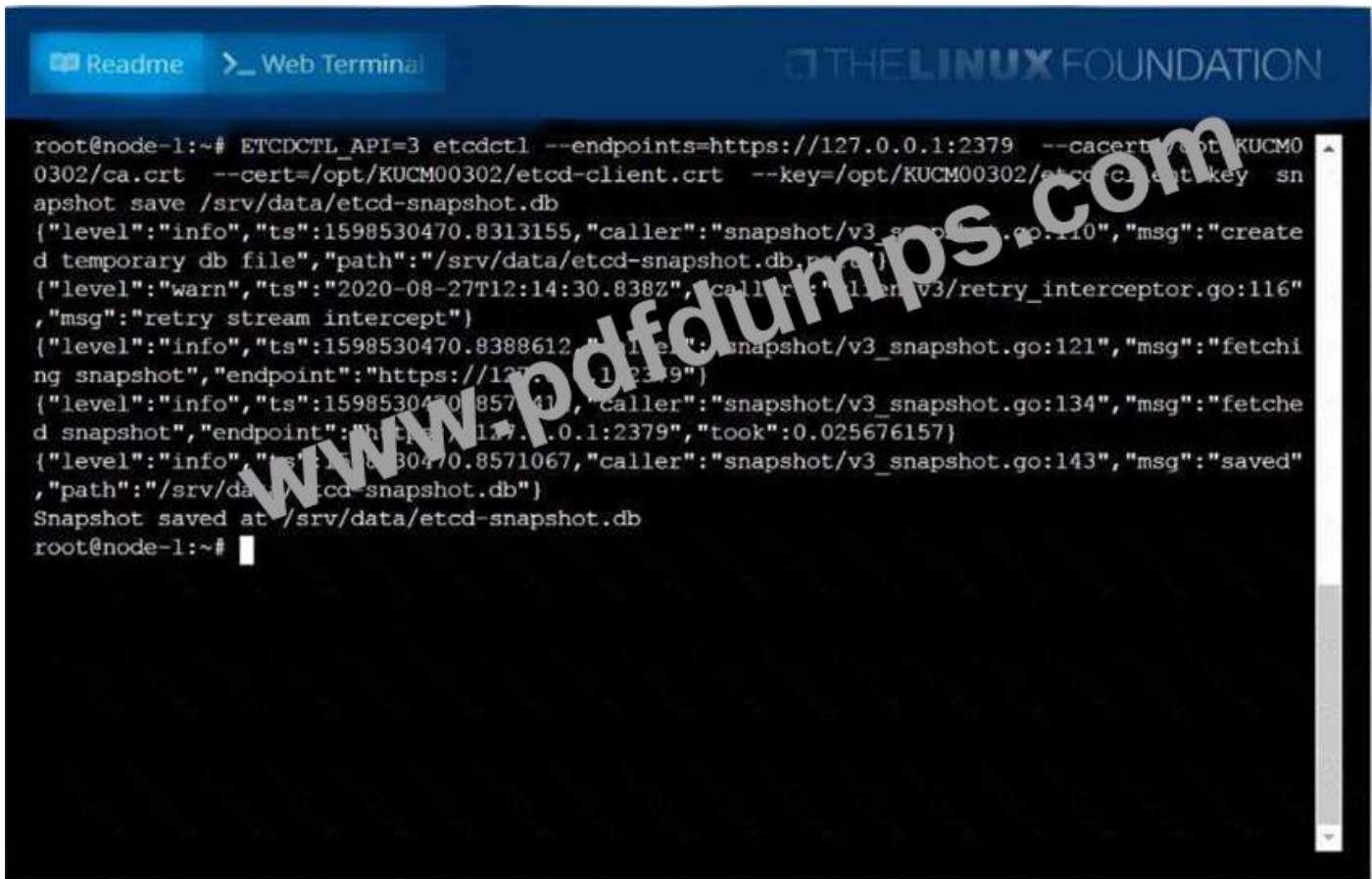
Answer:

Explanation:

See the solution below.

Explanation

solution



```
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":"create temporary db file","path":"/srv/data/etcd-snapshot.db.tmp"}
{"level":"warn","ts":"2020-08-27T12:14:30.838Z","caller":"client/v3/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":1598530470.857141,"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 43

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

Answer:

Explanation:

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

NEW QUESTION 44

Create a pod named kucc8 with a single app container for each of the following images running inside (there may be between 1 and 4 images specified):

nginx + redis + memcached.

Answer:

Explanation:

solution

Readme
Web Terminal

```

cpu-utilizer-98b9se      1/1      Running      0          5h51m
cpu-utilizer-ab2d3s      1/1      Running      0          5h51m
cpu-utilizer-kipb9a      1/1      Running      0          5h51m
ds-kusc00201-2r2k9       1/1      Running      0          1s
ds-kusc00201-hzm9q       1/1      Running      0          1m12s
foo                      1/1      Running      0          5h54m
front-end                1/1      Running      0          5h53m
hungry-bear              1/1      Running      0          2m4s
kucc8                    0/3      ContainerCreating 0          4s
webserver-84c55967f4-qzjcv 1/1      Running      0          6h9m
webserver-84c55967f4-t4791 1/1      Running      0          6h9m
root@node-1:~# kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
cpu-utilizer-98b9se                 1/1     Running   0          5h52m
cpu-utilizer-ab2d3s                 1/1     Running   0          5h52m
cpu-utilizer-kipb9a                 1/1     Running   0          5h52m
ds-kusc00201-2r2k9                  1/1     Running   0          6m31s
ds-kusc00201-hzm9q                  1/1     Running   0          6m31s
foo                                 1/1     Running   0          5h54m
front-end                           1/1     Running   0          5h54m
hungry-bear                         1/1     Running   0          2m23s
kucc8                               3/3     Running   0          23s
webserver-84c55967f4-qzjcv          1/1     Running   0          6h9m
webserver-84c55967f4-t4791          1/1     Running   0          6h9m
root@node-1:~#

```

NEW QUESTION 45

Score: 7%

No configuration context change required for this task.

Ensure, however, that you have returned to the base node before starting to work on this task:

```

[student@mk8s-master-0]
$
exit

```

Task

First, create a snapshot of the existing etcd instance running at <https://127.0.0.1:2379>, saving the snapshot to `/srv/data/etcd-snapshot.db`.

Creating a snapshot of the given instance is expected to complete in seconds. If the operation seems to hang, something's likely wrong with your command. Use **CTRL + C** to cancel the operation and try again.

Next, restore an existing, previous snapshot located at /var/lib/backup/etcd-snapshot-previous.db

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

- CA certificate:
/opt/KUIN00601/ca.crt
- Client certificate:
/opt/KUIN00601/etcd-client.crt
- Client key:
/opt/KUIN00601/etcd-client.key

Answer:

Explanation:

See the solution below.

Explanation

Solution:

#backup

```
ETCDCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" --cacert=/opt/KUIN000601/ca.crt
--cert=/opt/KUIN000601/etcd-client.crt --key=/opt/KUIN000601/etcd-client.key snapshot save
/etc/data/etcd-snapshot.db
```

#restore

```
ETCDCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" --cacert=/opt/KUIN000601/ca.crt
--cert=/opt/KUIN000601/etcd-client.crt --key=/opt/KUIN000601/etcd-client.key snapshot restore
/var/lib/backup/etcd-snapshot-previous.db
```

NEW QUESTION 46

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.

Answer:

Explanation:

solution

The screenshot shows a web terminal interface with a dark blue header. On the left, there are two buttons: 'Readme' and 'Web Terminal'. On the right, the text 'THE LINUX FOUNDATION' is displayed. The terminal content shows a user at a root prompt on a node-1 machine. The user enters the command 'k create deploy kual00201 --image=nginx --dry-run=client -o yaml /opt/KUAL00201/spec_deployment.yaml'. The prompt then changes to 'root@node-1:~# vim /opt/KUAL00201/spec_deployment.yaml'. A large, diagonal watermark 'www.pdfdumps.com' is overlaid across the terminal area.

```
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
```



```
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app_runtime_stage: dev
  name: kual00201
spec:
  replicas: 7
  selector:
    matchLabels:
      app_runtime_stage: dev
  template:
    metadata:
      labels:
        app_runtime_stage: dev
    spec:
      containers:
      - image: nginx
        name: nginx
status:
  readyReplicas: 7
  replicas: 7

~/opt/KUAL00201/spec_deployment.yaml 19L, 320C written
```

NEW QUESTION 47

.....