

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program

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



NEW QUESTION 1

Create a pod with environment variables as var1=value1. Check the environment variable in pod

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
kubectl run nginx --image=nginx --restart=Never --env=var1=value1
# then
kubectl exec -it nginx -- env
# or
kubectl exec -it nginx -- sh -c 'echo $var1'
# or
kubectl describe po nginx | grep value1
```

NEW QUESTION 2

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 nodes (bk8s-master-0 or bk8s-node-0) using:

```
[student@node-1] $ ssh <nodename>
```

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

```
[student@nodename] $ | sudo ?Ci
```

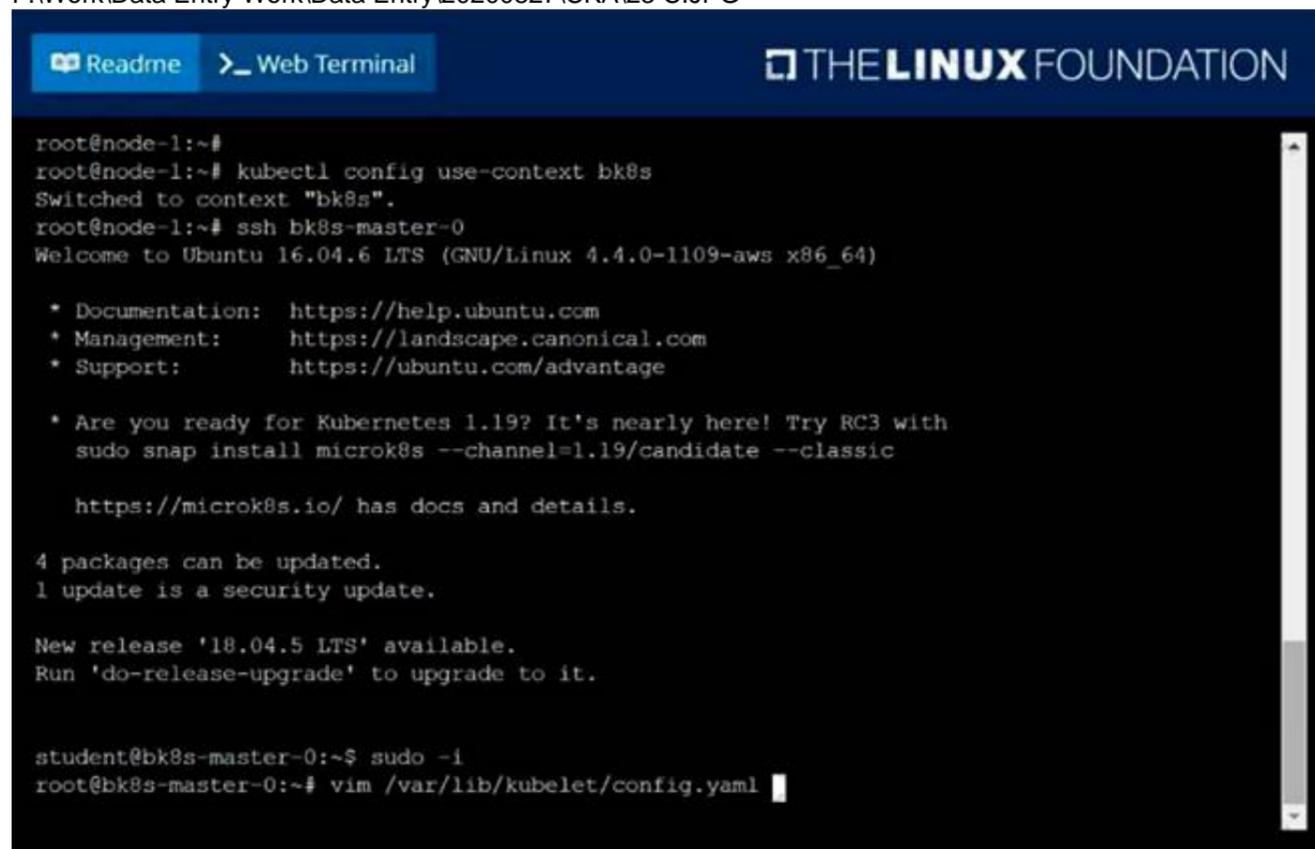
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

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The screenshot shows a terminal window with a dark background and white text. At the top, there are two buttons: 'Readme' and 'Web Terminal', and the logo for 'THE LINUX FOUNDATION'. The terminal output shows the following commands and their results:

```
root@node-1:~#
root@node-1:~# kubectl config use-context bk8s
Switched to context "bk8s".
root@node-1:~# ssh bk8s-master-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@bk8s-master-0:~$ sudo -i
root@bk8s-master-0:~# vim /var/lib/kubelet/config.yaml
```

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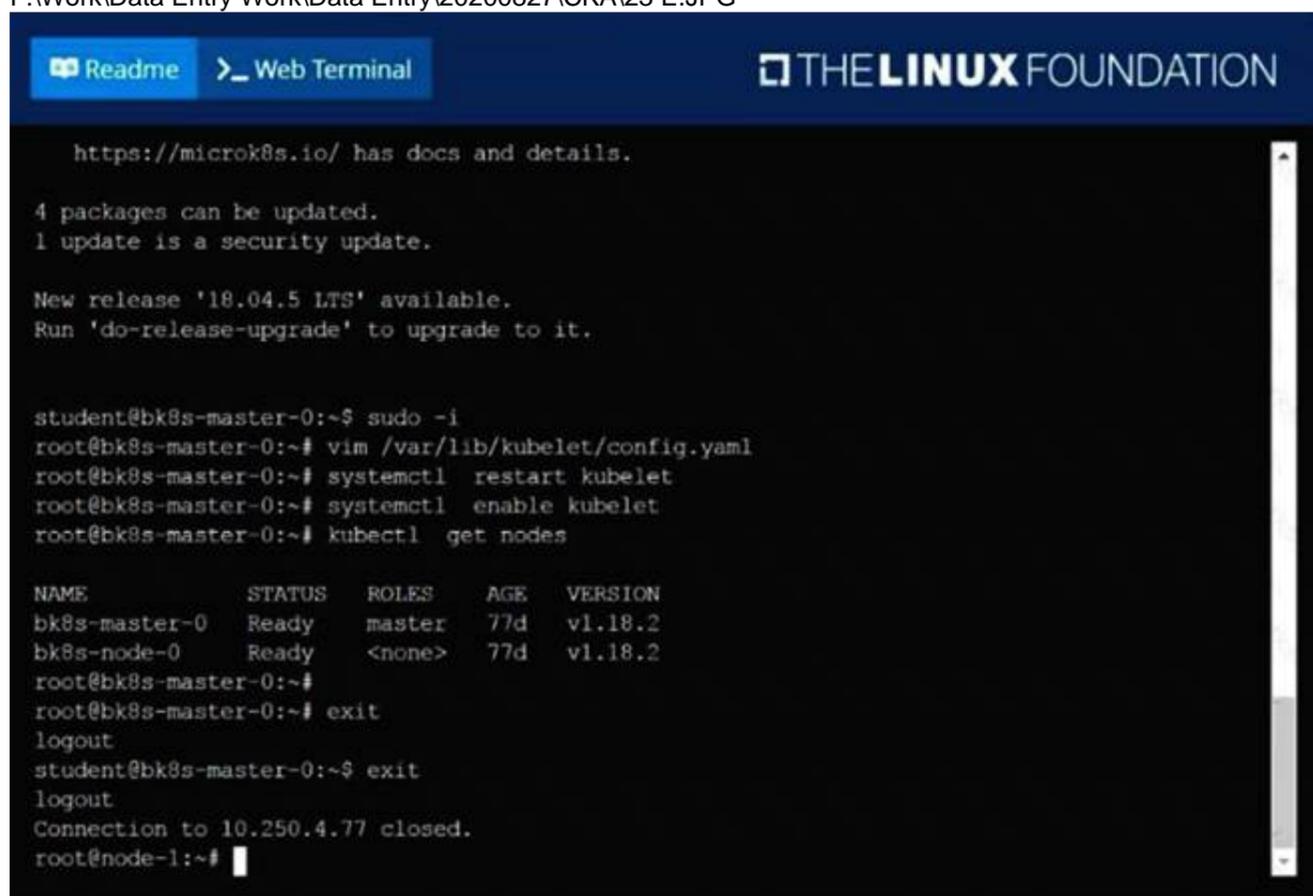
Readme Web Terminal THE LINUX FOUNDATION

```

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
volumeStatsAggPeriod: 0s
:wc

```

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Readme Web Terminal THE LINUX FOUNDATION

```

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@bk8s-master-0:~$ sudo -i
root@bk8s-master-0:~# vim /var/lib/kubelet/config.yaml
root@bk8s-master-0:~# systemctl restart kubelet
root@bk8s-master-0:~# systemctl enable kubelet
root@bk8s-master-0:~# kubectl get nodes

NAME           STATUS    ROLES    AGE   VERSION
bk8s-master-0  Ready    master   77d   v1.18.2
bk8s-node-0    Ready    <none>   77d   v1.18.2
root@bk8s-master-0:~#
root@bk8s-master-0:~# exit
logout
student@bk8s-master-0:~$ exit
logout
Connection to 10.250.4.77 closed.
root@node-1:~#

```

NEW QUESTION 3

Create a deployment as follows:

- > Name:nginx-app
- > Using containernginxwithversion 1.11.10-alpine
- > The deployment should contain3replicas

Next, deploy the application with newversion1.11.13-alpine, byperforming a rolling update.

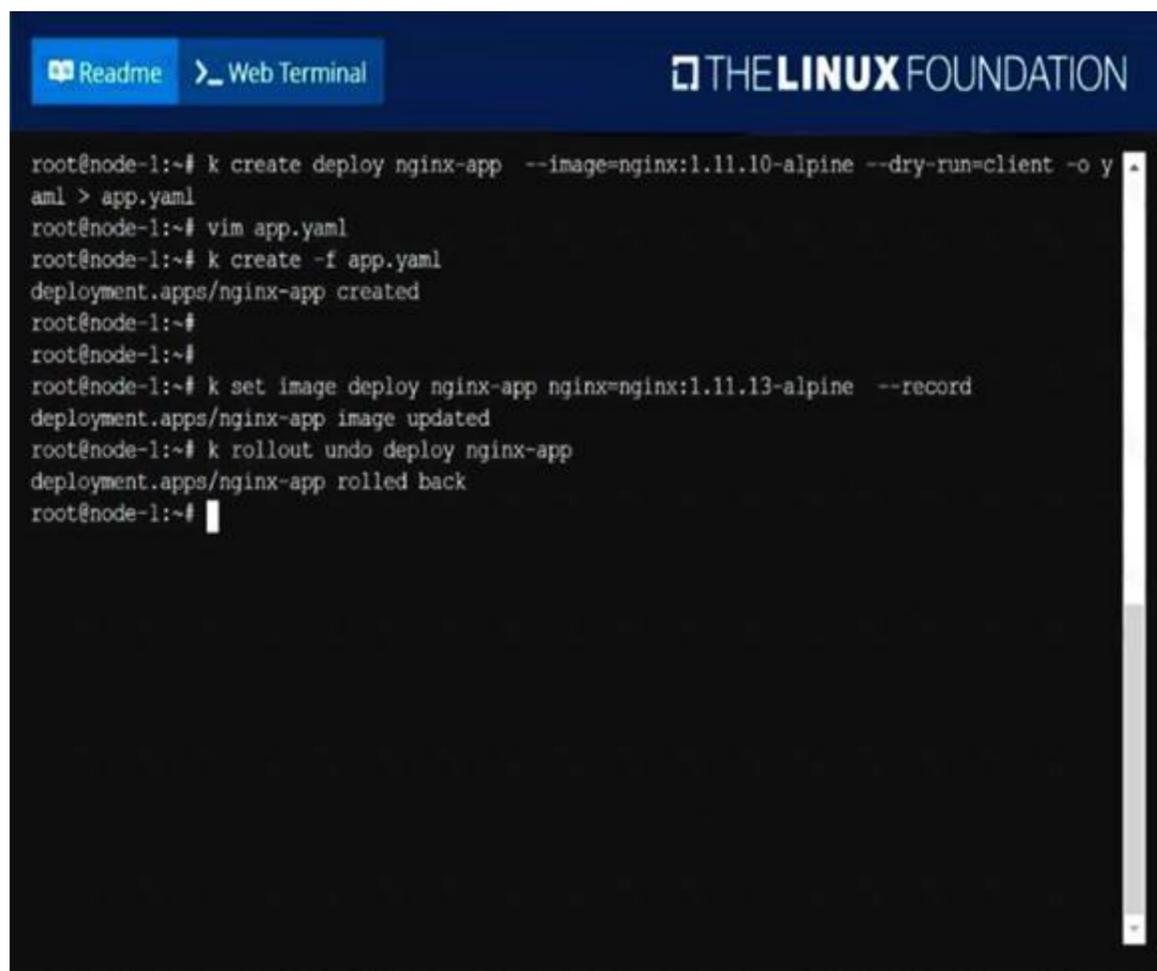
Finally, rollback that update to theprevious version1.11.10-alpine.

- 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 nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o y
aml > app.yaml
root@node-1:~# vim app.yaml
root@node-1:~# k create -f app.yaml
deployment.apps/nginx-app created
root@node-1:~#
root@node-1:~#
root@node-1:~# k set image deploy nginx-app nginx=nginx:1.11.13-alpine --record
deployment.apps/nginx-app image updated
root@node-1:~# k rollout undo deploy nginx-app
deployment.apps/nginx-app rolled back
root@node-1:~#
```

NEW QUESTION 4

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 5

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 6

Create a Kubernetes secret as follows:

- > Name: super-secret
- > password: bob

Create a pod named pod-secrets-via-file, using the redisImage, which mounts a secret named super-secret at /secrets.

Create a second pod named pod-secrets-via-env, using the redisImage, which exports password as CONFIDENTIAL

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution
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```
THE LINUX FOUNDATION
Readme Web Terminal
root@node-1:~#
root@node-1:~# k create secret generic super-secret --from-literal=password=bob
secret/super-secret created
root@node-1:~# vim secret.yaml
```

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```
THE LINUX FOUNDATION
Readme Web Terminal
apiVersion: v1
kind: Pod
metadata:
  name: pod-secrets-via-file
spec:
  containers:
  - name: redis
    image: redis
    volumeMounts:
    - name: foo
      mountPath: "/secrets"
  volumes:
  - name: foo
    secret:
      secretName: super-secret
```

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```
Readme Web Terminal THE LINUX FOUNDATION

root@node-1:~# k create -f secret.yaml
pod/pod-secrets-via-file created
root@node-1:~# vim secret1.yaml
root@node-1:~# k create -f secret1.yaml
pod/pod-secrets-via-env created
root@node-1:~# k get po
NAME                                READY   STATUS    RESTARTS   AGE
cpu-utilizer-98b9se                 1/1    Running   0          6h25m
cpu-utilizer-ab2d3s                 1/1    Running   0          6h25m
cpu-utilizer-kiqb9a                 1/1    Running   0          6h25m
ds-kusc00201-2r2k9                  1/1    Running   0          40m
ds-kusc00201-hzm9q                  1/1    Running   0          40m
foo                                  1/1    Running   0          6h28m
front-end                           1/1    Running   0          6h27m
hungry-bear                         1/1    Running   0          36m
kucc8                                3/3    Running   0          34m
nginx-app-848cfcf495-9prjh          1/1    Running   0          19m
nginx-app-848cfcf495-gl2kh          1/1    Running   0          19m
nginx-app-848cfcf495-pg2c8          1/1    Running   0          19m
nginx-kusc00101                     1/1    Running   0          26m
pod-secrets-via-env                  1/1    Running   0          4s
pod-secrets-via-file                 1/1    Running   0          106s
webserver-84c55967f4-qzjcv          1/1    Running   0          6h43m
webserver-84c55967f4-t4791          1/1    Running   0          6h43m
root@node-1:~#
```

NEW QUESTION 7

Perform the following tasks:

- > Add an init container to hungry-bear (which has been defined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)
- > The init container should create an empty file named /workdir/calm.txt
- > If /workdir/calm.txt is not detected, the pod should exit
- > Once the spec file has been updated with the init container definition, the pod should be created

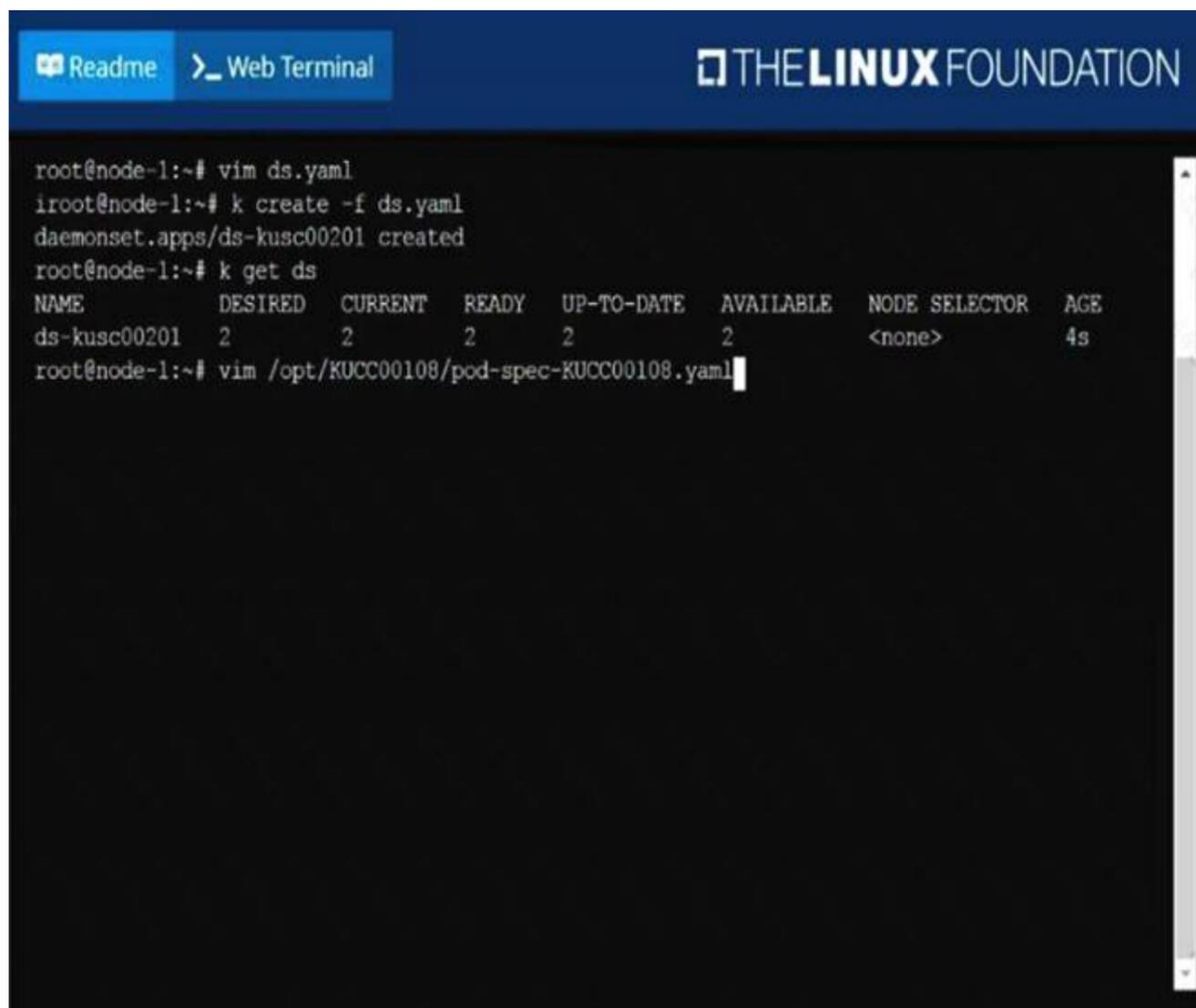
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

solution

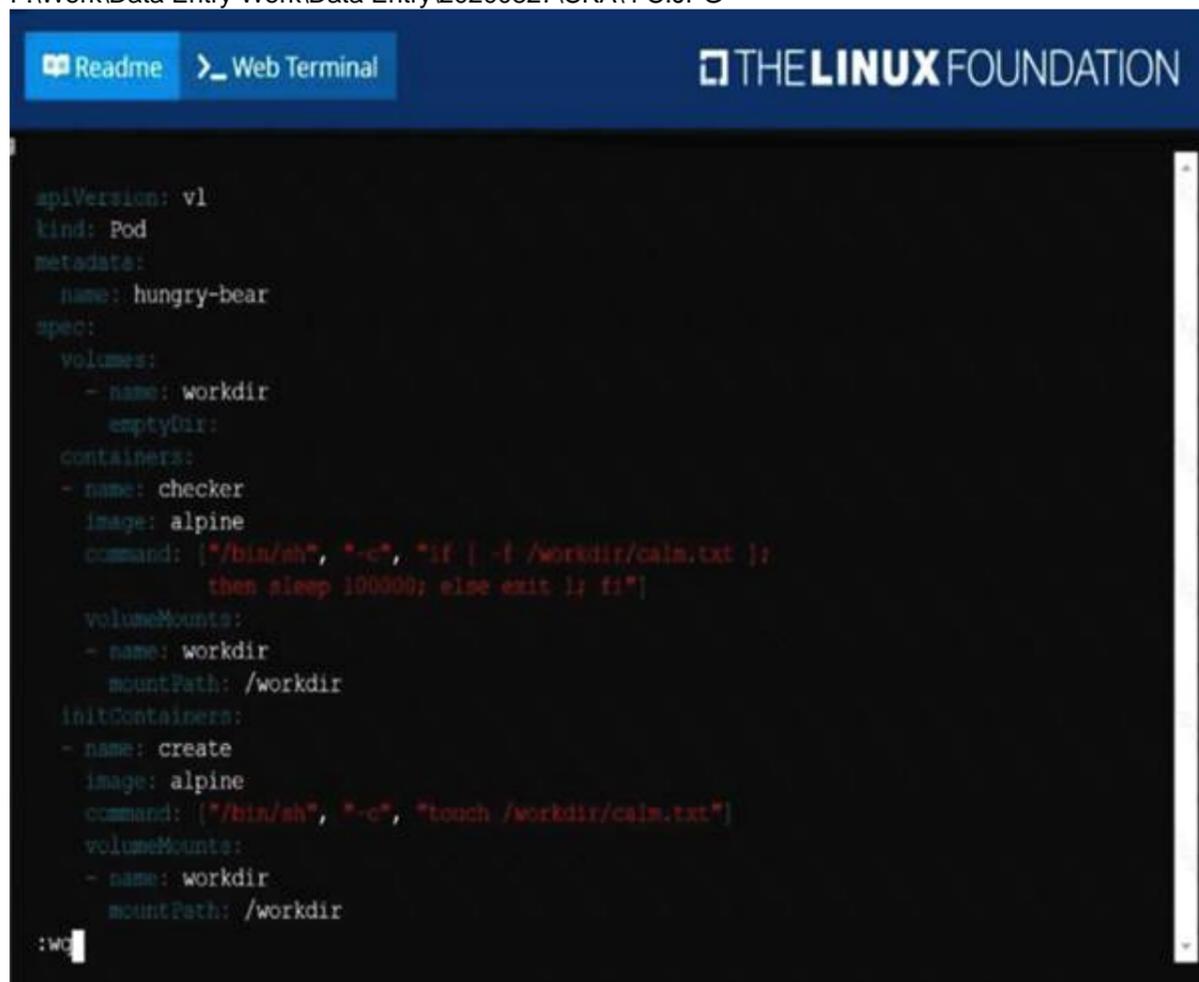
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The screenshot shows a web terminal interface with a dark background and white text. At the top, there are two buttons: 'Readme' and 'Web Terminal'. The 'THE LINUX FOUNDATION' logo is in the top right corner. The terminal content shows the following sequence of commands and output:

```
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:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
```

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The screenshot shows a web terminal interface with a dark background and white text. At the top, there are two buttons: 'Readme' and 'Web Terminal'. The 'THE LINUX FOUNDATION' logo is in the top right corner. The terminal content shows a Kubernetes pod specification:

```
apiVersion: v1
kind: Pod
metadata:
  name: hungry-bear
spec:
  volumes:
  - name: workdir
    emptyDir: {}
  containers:
  - name: checker
    image: alpine
    command: ["/bin/sh", "-c", "if [ -f /workdir/caln.txt ];
      then sleep 100000; else exit 1; fi"]
    volumeMounts:
    - name: workdir
      mountPath: /workdir
  initContainers:
  - name: create
    image: alpine
    command: ["/bin/sh", "-c", "touch /workdir/caln.txt"]
    volumeMounts:
    - name: workdir
      mountPath: /workdir
```

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```
Readme Web Terminal THE LINUX FOUNDATION
root@node-1:~# vim ds.yaml
root@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:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
root@node-1:~# k create -f /opt/KUCC00108/pod-spec-KUCC00108.yaml
pod/hungry-bear created
root@node-1:~#
```

NEW QUESTION 8

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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```
Readme Web Terminal THE LINUX FOUNDATION
root@node-1:~# k expose po
error: resource(s) were provided, but no name, label selector, or --all flag specified
See 'kubectl expose -h' for help and examples
root@node-1:~# k expose po front-end --name=front-end-service --port=80 --target-port=80 --t
ype=NodePort
Error from server (NotFound): pods "front-end" not found
root@node-1:~# k expose po front-end --name=front-end-service --port=80 --target-port=80 --
type=NodePort
service/front-end-service exposed
root@node-1:~# k get svc
NAME          TYPE          CLUSTER-IP      EXTERNAL-IP  PORT(S)          AGE
front-end-service  NodePort      10.103.221.227  <none>       80:31828/TCP     3s
kubernetes     ClusterIP     10.96.0.1       <none>       443/TCP          77d
root@node-1:~#
```

NEW QUESTION 9

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

// create a pod

NEW QUESTION 10

.....

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