



Linux-Foundation

Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program



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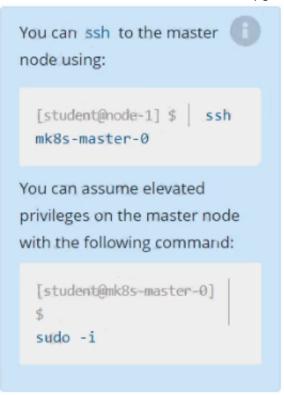
Score: 7%



Task

Given an existing Kubernetes cluster running version 1.20.0, upgrade all of the Kubernetes control plane and node components on the master node only to version

Be sure to drain the master node before upgrading it and uncordon it after the upgrade.



You are also expected to upgrade kubelet and kubectl on the master node.

Do not upgrade the worker nodes, etcd, the container manager, the CNI plugin, the DNS service or any other addons.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

SOLUTION:

[student@node-1] > ssh ek8s

kubectl cordon k8s-master

kubectl drain k8s-master --delete-local-data --ignore-daemonsets --force

apt-get install kubeadm=1.20.1-00 kubelet=1.20.1-00 kubectl=1.20.1-00 --disableexcludes=kubernetes kubeadm upgrade apply 1.20.1 --etcd-upgrade=false systemctl daemon-reload systemctl restart kubelet kubectl uncordon k8s-master

NEW QUESTION 2

Score: 5%





Task

Monitor the logs of pod bar and:

- Extract log lines corresponding to error file-not-found
- Write them to /opt/KUTR00101/bar

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

kubectl logs bar | grep 'unable-to-access-website' > /opt/KUTR00101/bar cat /opt/KUTR00101/bar

NEW QUESTION 3

List all persistent volumes sorted by capacity, saving the full kubectl output to /opt/KUCC00102/volume_list. Use kubectl 's own functionality for sorting the output, and do not manipulate it any further.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

solution

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Readme		>_ Web Terminal	THE LINUX FOUNDATION					
77d						ē		
pv0007 77d	7Gi	RWO	Recycle	Available	slow	1		
pv0006 77d	8Gi	RWO	Recycle	Available	slow			
pv0003 77d	10Gi	RWO	Recycle	Available	slow			
pv0002 77d	11Gi	RWO	Recycle	Available	slow			
pv0010 77d	13Gi	RWO	Recycle	Available	slow			
pv0011 77d	14Gi	RWO	Recycle	Available	slow			
pv0001 77d	16Gi	RWO	Recycle	Available	slow			
pv0009 77d	17Gi	RWO	Recycle	Available	slow			
pv0005 77 d	18Gi	RWO	Recycle	Available	slow			
pv0008 77d	19Gi	RWO	Recycle	Available	slow			
pv0000 77d	21Gi	RWO	Recycle	Available	slow			
root@nod root@nod			-by=.spec.capacit	y.storage > /opt/K	JCC00102/volume_list			

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Score: 7%



Task

Reconfigure the existing deployment front-end and add a port specification named http exposing port 80/tcp of the existing container nginx.

Create a new service named front-end-svc exposing the container port http.

Configure the new service to also expose the individual Pods via a NodePort on the nodes on which they are scheduled.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

kubectl get deploy front-end kubectl edit deploy front-end -o yaml #port specification named http #service.yaml apiVersion: v1 kind: Service metadata:

name: front-end-svc labels: app: nginx spec: ports:

- port: 80 protocol: tcp name: http selector: app: nginx

type: NodePort

kubectl create -f service.yaml

kubectl get svc

port specification named http

kubectl expose deployment front-end --name=front-end-svc --port=80 --tarport=80 --type=NodePort

NEW QUESTION 5

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

A. Mastered

B. Not Mastered

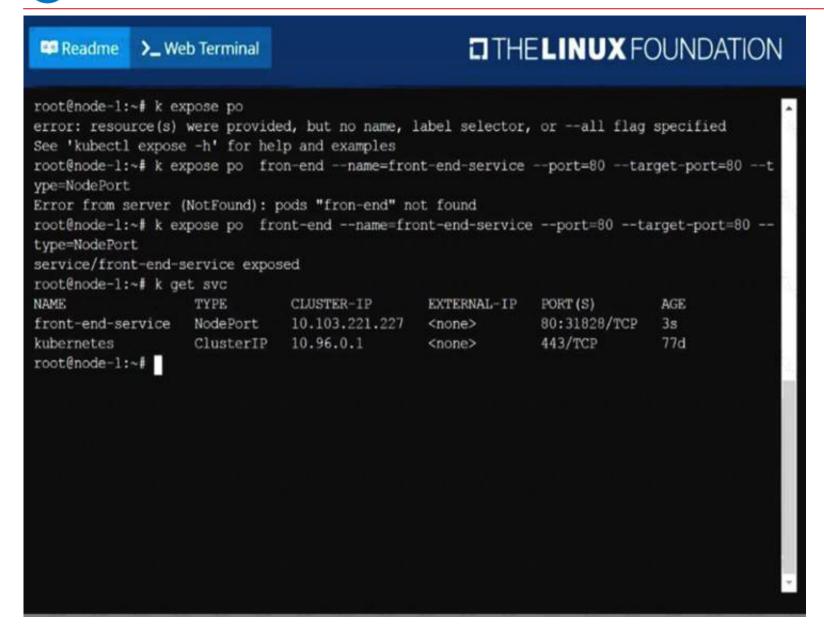
Answer: A

Explanation:

solution

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Score:7%



Context

An existing Pod needs to be integrated into the Kubernetes built-in logging architecture (e. g. kubectl logs). Adding a streaming sidecar container is a good and common way to accomplish this requirement.

Task

Add a sidecar container named sidecar, using the busybox Image, to the existing Pod big-corp-app. The new sidecar container has to run the following command: /bin/sh -c tail -n+1 -f /va r/log/big-corp-app.log

Use a Volume, mounted at /var/log, to make the log file big-corp-app.log available to the sidecar container.

Don't modify the specification of the existing container other than adding the required volume mount.

A. MasteredB. Not Mastered

Answer: A

Explanation:

Solution:

#

kubectl get pod big-corp-app -o yaml

#



```
apiVersion: v1 kind: Pod metadata:
name: big-corp-app spec:
containers:
- name: big-corp-app image: busybox
args:
- /bin/sh
- -C
- > i = 0;
while true; do
echo "$(date) INFO $i" >> /var/log/big-corp-app.log; i=$((i+1));
sleep 1; done
volumeMounts:
- name: logs mountPath: /var/log
- name: count-log-1 image: busybox
args: [/bin/sh, -c, 'tail -n+1 -f /var/log/big-corp-app.log'] volumeMounts:
- name: logs mountPath: /var/log volumes:
- name: logs emptyDir: {
kubectl logs big-corp-app -c count-log-1
```

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 8

Get IP address of the pod – "nginx-dev"

A. MasteredB. Not Mastered

Answer: A

Explanation:

 $\label{thm:linear_continuous_co$

NEW QUESTION 9

Create a file:

/opt/KUCC00302/kucc00302.txt that lists all pods that implement service baz in namespace development. The format of the file should be one pod name per line.

A. MasteredB. Not Mastered

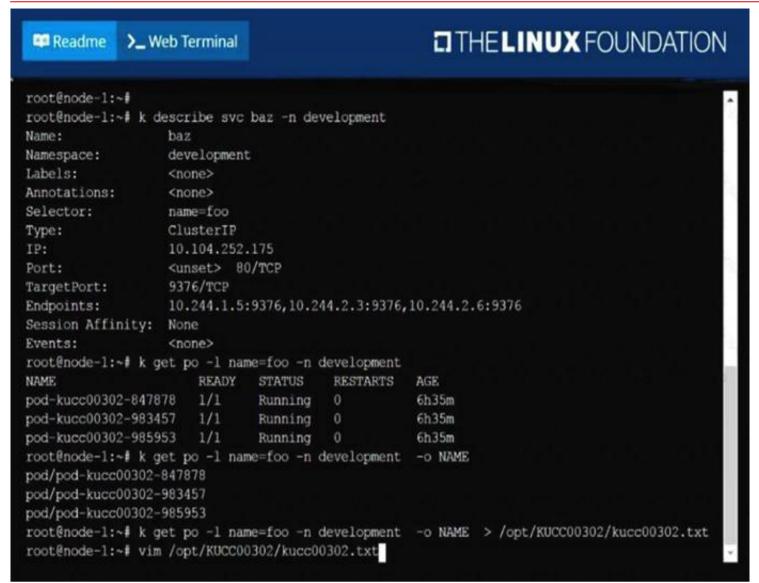
Answer: A

Explanation:

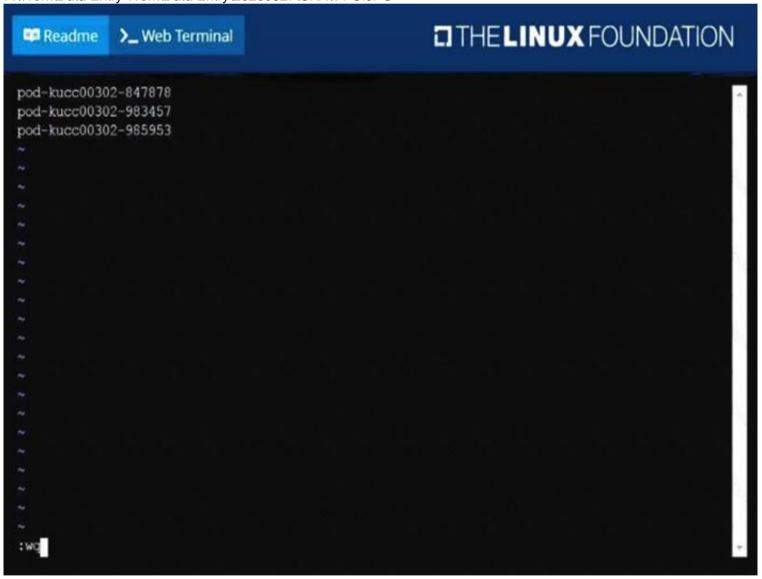
solution

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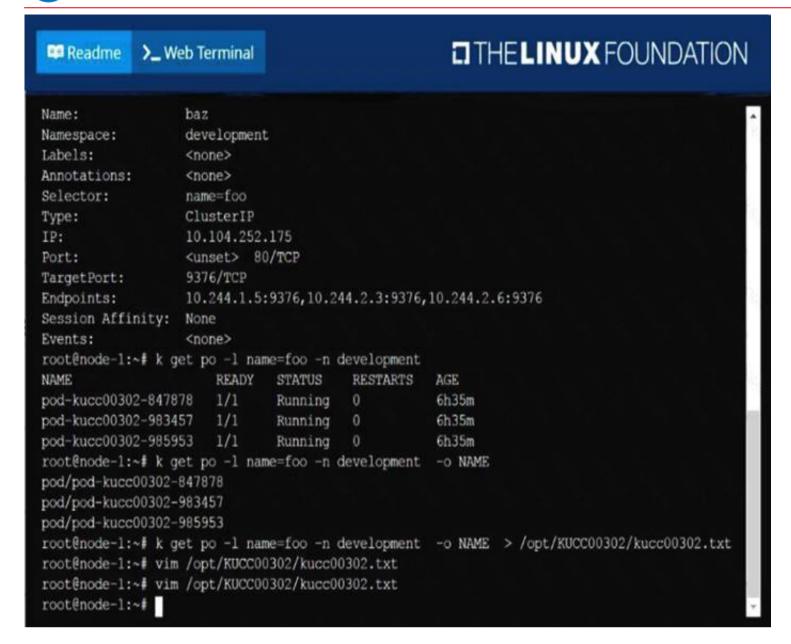
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List the nginx pod with custom columns POD_NAME and POD_STATUS

A. Mastered

B. Not Mastered

Answer: A

Explanation:

kubectl get po -o=custom-columns="POD_NAME:.metadata.name, POD_STATUS:.status.containerStatuses[].state"

NEW QUESTION 10

Score: 4%



Task

Schedule a pod as follows:

- Name: nginx-kusc00401
- Image: nginx
- Node selector: disk=ssd

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

#yaml apiVersion: v1 kind: Pod metadata:

name: nginx-kusc00401 spec:

containers:

- name: nginx image: nginx

imagePullPolicy: IfNotPresent nodeSelector:



disk: spinning

kubectl create -f node-select.yaml

NEW QUESTION 15

Get list of all the pods showing name and namespace with a jsonpath expression.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 18

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

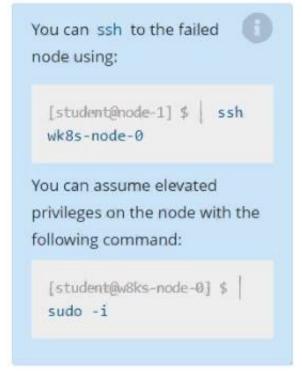
NEW QUESTION 22

Score: 13%



Task

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.



A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

sudo -i



systemctl status kubelet systemctl start kubelet systemctl enable kubelet

NEW QUESTION 25

Create 2 nginx image pods in which one of them is labelled with env=prod and another one labelled with env=dev and verify the same.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

kubectl run --generator=run-pod/v1 --image=nginx -- labels=env=prod nginx-prod --dry-run -o yaml > nginx-prodpod.yaml Now, edit nginx-prod-pod.yaml file and remove entries like "creationTimestamp: null" "dnsPolicy: ClusterFirst"

vim nginx-prod-pod.yaml

apiVersion: v1 kind: Pod metadata: labels:

env: prod

name: nginx-prod spec:

containers:

- image: nginx name: nginx-prod

restartPolicy: Always

kubectl create -f nginx-prod-pod.yaml

kubectl run --generator=run-pod/v1 --image=nginx -- labels=env=dev nginx-dev --dry-run -o yaml > nginx-dev-pod.yaml apiVersion: v1

kind: Pod metadata: labels: env: dev

name: nginx-dev spec:

containers:

- image: nginx name: nginx-dev

restartPolicy: Always

kubectl create -f nginx-prod-dev.yaml

Verify:

kubectl get po --show-labels kubectl get po -l env=prod kubectl get po -l env=dev

NEW QUESTION 27

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.

A. Mastered

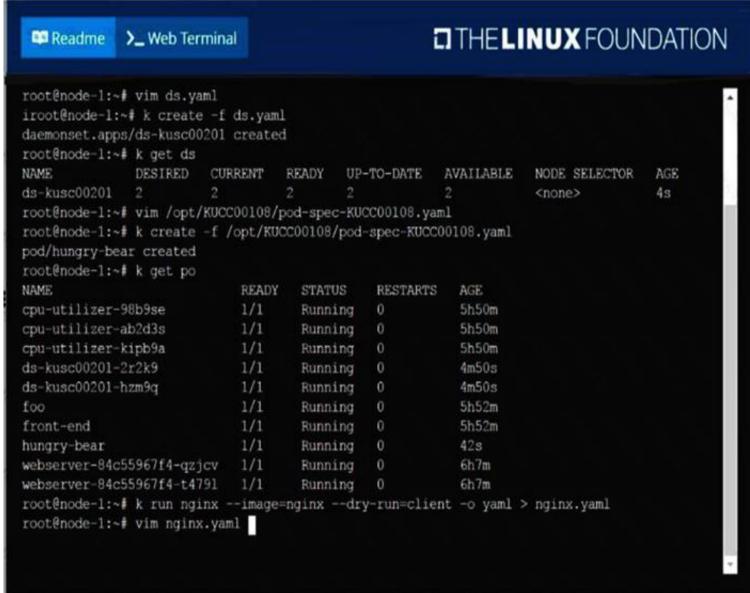
B. Not Mastered

Answer: A

Explanation:

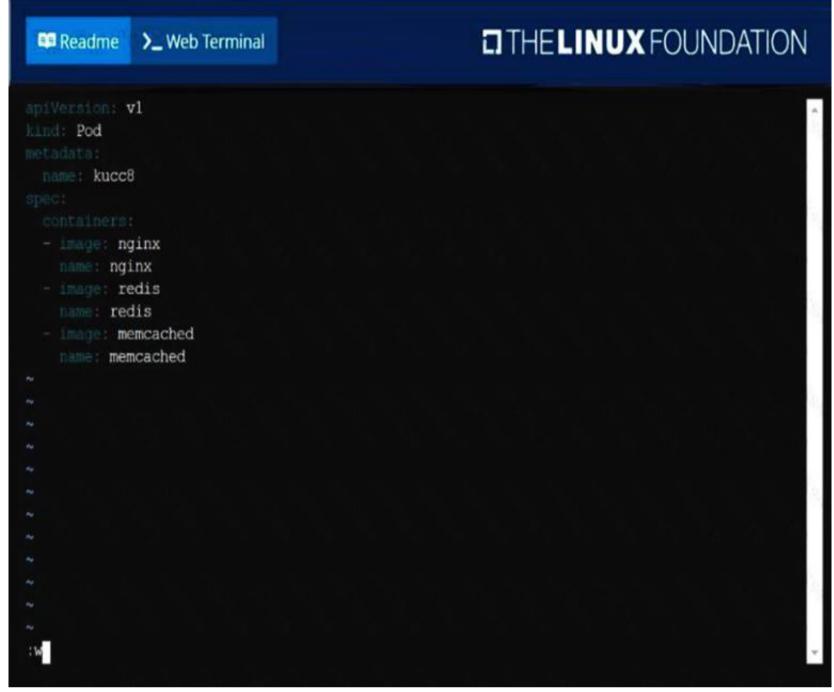
solution

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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	6m12s		
ds-kusc00201-hzm9q	1/1	Running		0	6m12s		
foo	1/1	Running		0	5h54m		
front-end	1/1	Running		0	5h53m		
hungry-bear	1/1	Running		0	2m4s		
kucc8	0/3	Container	Creating	0	4s		
webserver-84c55967f4-qzjcv	1/1	Running		0	6h9m		
webserver-84c55967f4-t4791	1/1	Running		0	6h9m		
root@node-1:~# k get po							
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:~#							4

NEW QUESTION 32

Scale the deployment webserver to 6 pods.



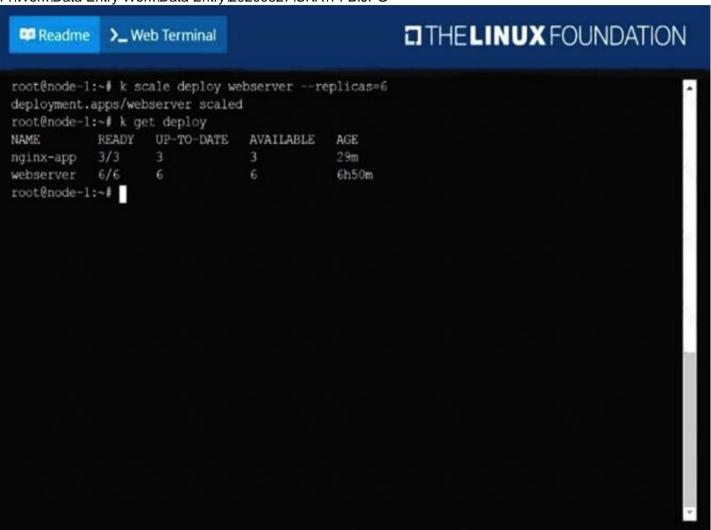
A. MasteredB. Not Mastered

Answer: A

Explanation:

solution

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NEW QUESTION 36

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 37

Score: 7%



Task

Create a new nginx Ingress resource as follows:

- Name: ping
- Namespace: ing-internal
- Exposing service hi on path /hi using service port 5678

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The availability of service hi can be checked using the following command, which should return hi: [student@node-1] \$ curl -kL <INTERNAL_IP>/hi

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

vi ingress.yaml

apiVersion: networking.k8s.io/v1 kind: Ingress

metadata: name: ping

namespace: ing-internal spec:

rules: - http: paths:

- path: /hi pathType: Prefix backend: service:

name: hi port: number: 5678

kubectl create -f ingress.yaml

NEW QUESTION 40

Create a busybox pod that runs the command "env" and save the output to "envpod" file

A. Mastered B. Not Mastered

Answer: A

Explanation:

kubectl run busybox --image=busybox --restart=Never --rm -it -- env > envpod.yaml

NEW QUESTION 45

Create a busybox pod and add "sleep 3600" command

A. Mastered

B. Not Mastered

Answer: A

Explanation:

kubectl run busybox --image=busybox --restart=Never -- /bin/sh -c "sleep 3600"

NEW QUESTION 47

Create a Kubernetes secret as follows:

Name: super-secret

password: bob

Create a pod named pod-secrets-via-file, using the redis Image, which mounts a secret named super-secret at /secrets. Create a second pod named pod-secrets-via-env, using the redis Image, which exports password as CONFIDENTIAL

A. Mastered

B. Not Mastered

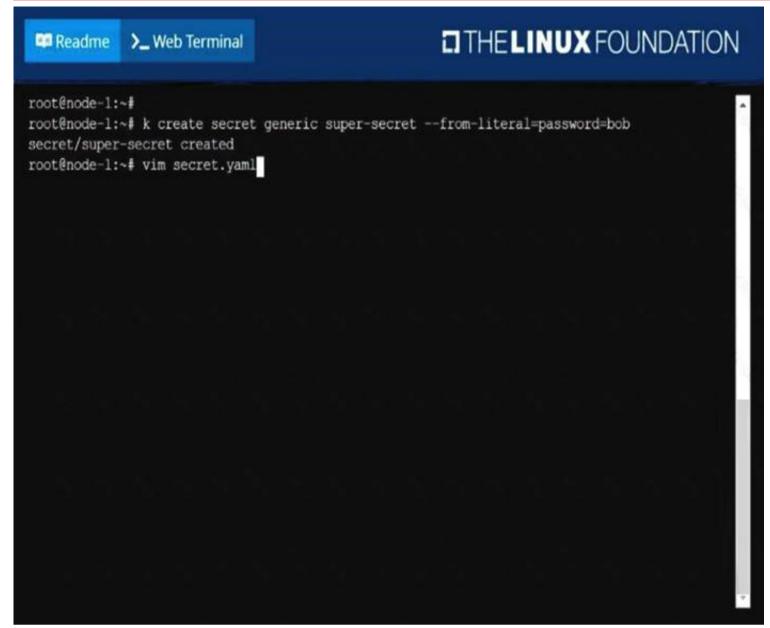
Answer: A

Explanation:

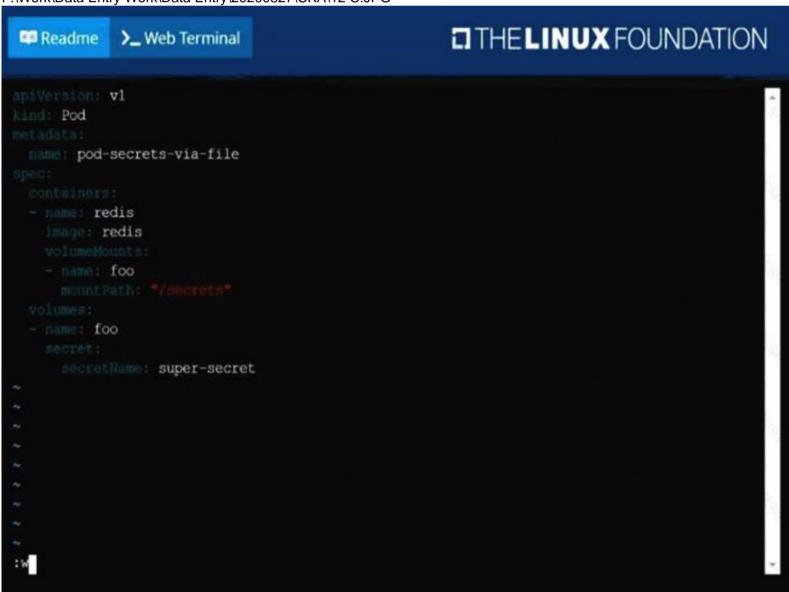
solution

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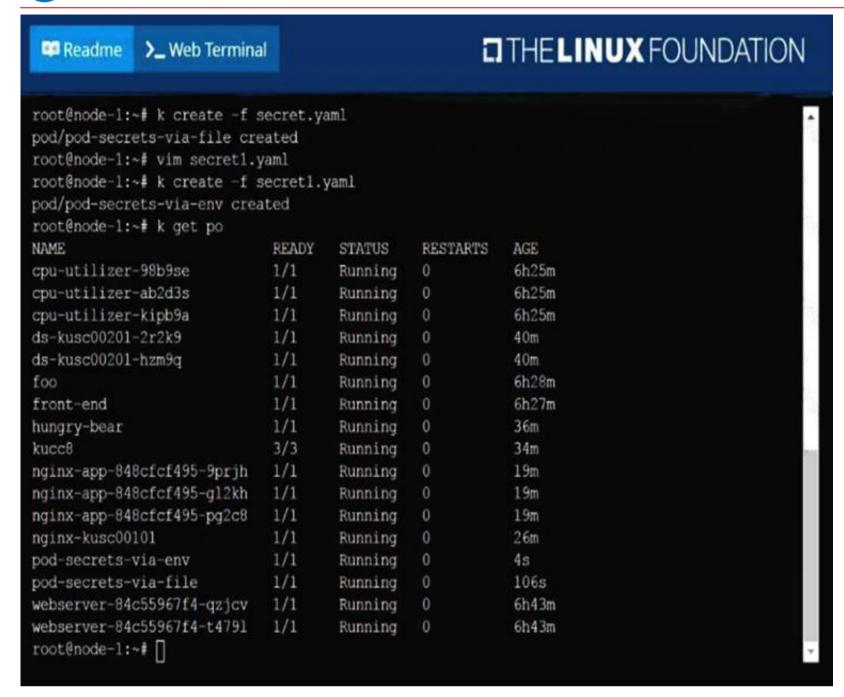
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Score:7%



Task

Create a new PersistentVolumeClaim

- Name: pv-volume
- Class: csi-hostpath-sc
- Capacity: 10Mi

Create a new Pod which mounts the PersistentVolumeClaim as a volume:

- Name: web-server
- Image: nginx
- Mount path: /usr/share/nginx/html

Configure the new Pod to have ReadWriteOnce access on the volume.

Finally, using kubectl edit or kubectl patch expand the PersistentVolumeClaim to a capacity of 70Mi and record that change.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

vi pvc.yaml storageclass pvc apiVersion: v1 kind: PersistentVolumeClaim metadata: name: pv-volume spec: accessModes:

 $\hbox{-} ReadWriteOnce\ volumeMode:\ Filesystem\ resources:}$

requests: storage: 10Mi



storageClassName: csi-hostpath-sc

vi pod-pvc.yaml apiVersion: v1 kind: Pod metadata:

name: web-server spec:

containers:

- name: web-server image: nginx volumeMounts:
- mountPath: "/usr/share/nginx/html"

name: my-volume volumes:

- name: my-volume persistentVolumeClaim: claimName: pv-volume

craete

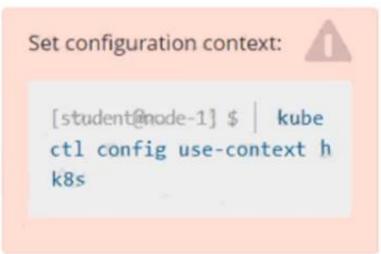
kubectl create -f pod-pvc.yaml

#edit

kubectl edit pvc pv-volume --record

NEW QUESTION 53

Score: 7%



Task

Create a new NetworkPolicy named allow-port-from-namespace in the existing namespace echo. Ensure that the new NetworkPolicy allows Pods in namespace my-app to connect to port 9000 of Pods in namespace echo.

Further ensure that the new NetworkPolicy:

- does not allow access to Pods, which don't listen on port 9000
- does not allow access from Pods, which are not in namespace my-app

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

#network.yaml

apiVersion: networking.k8s.io/v1 kind: NetworkPolicy

metadata:

name: allow-port-from-namespace namespace: internal

spec: podSelector: matchLabels: {

policyTypes:

- Ingress ingress:

- from:

- podSelector: {

ports:

- protocol: TCP port: 8080

#spec.podSelector namespace pod kubectl create -f network.yaml

NEW QUESTION 56

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 httpd named 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 -i

A. Mastered

B. Not Mastered

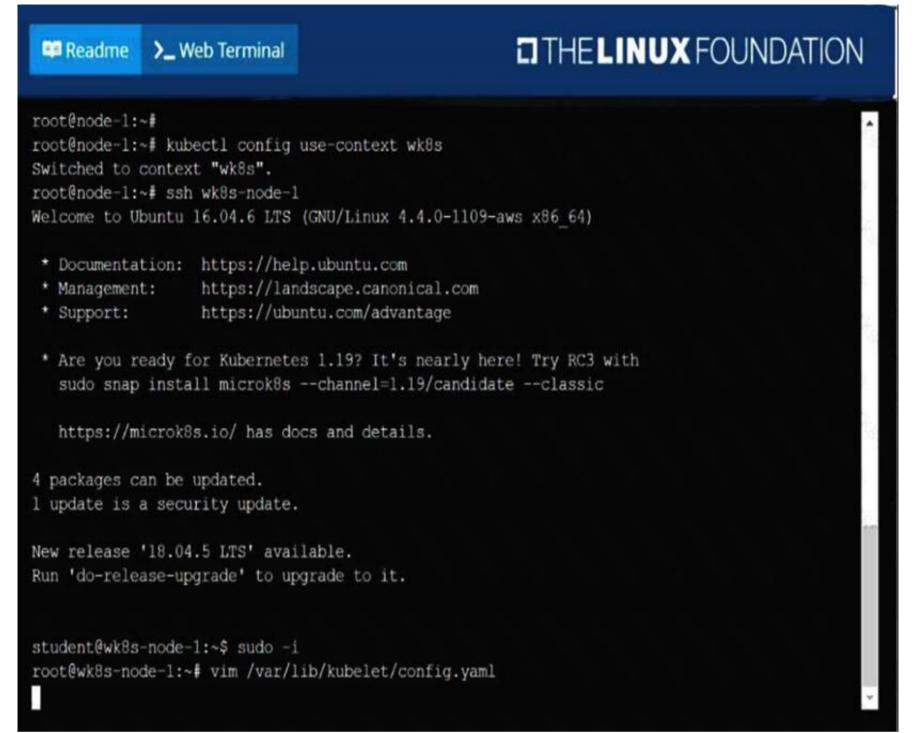
Answer: A

Explanation:

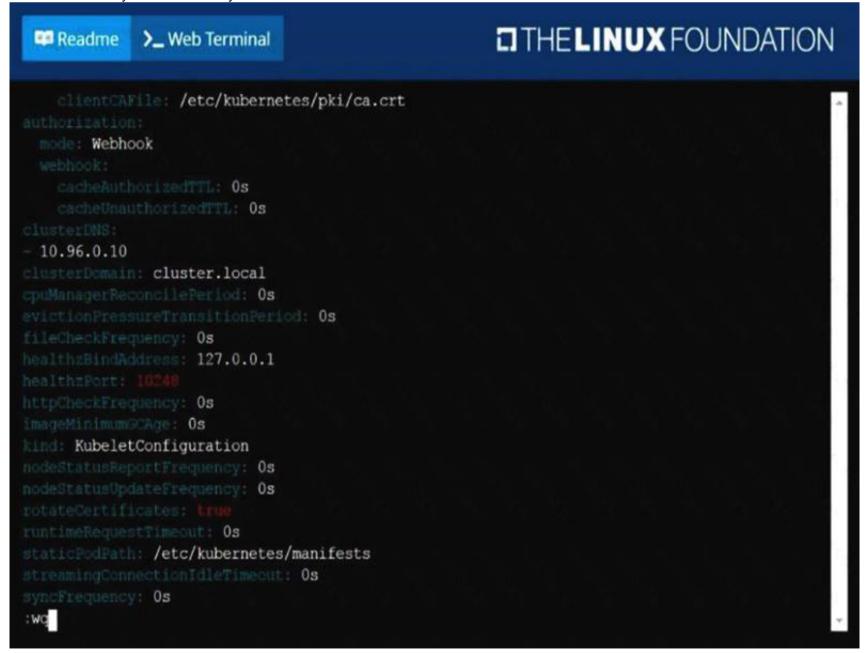
solution

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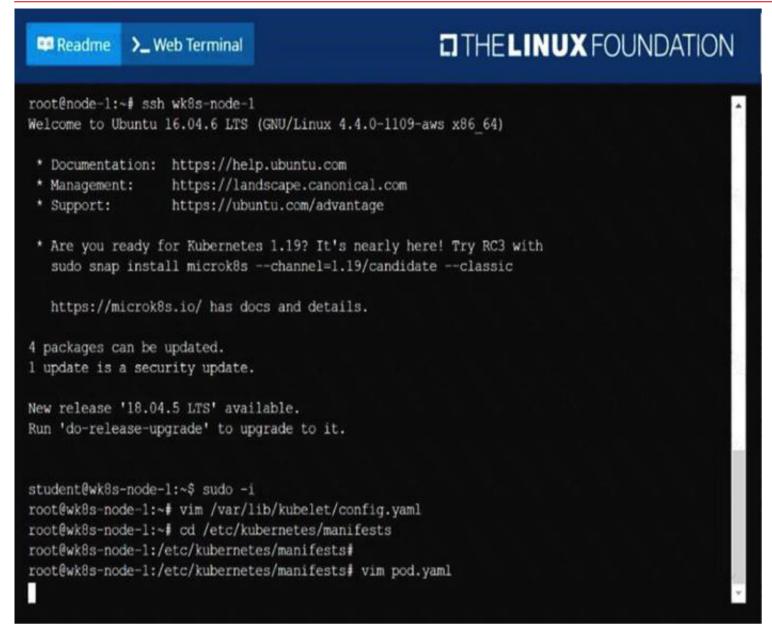


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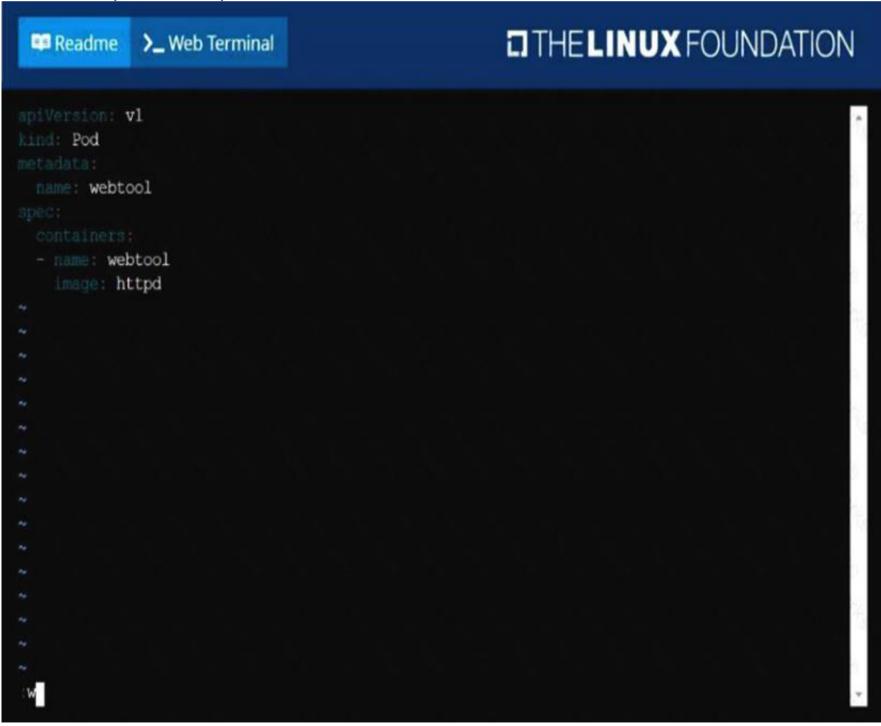


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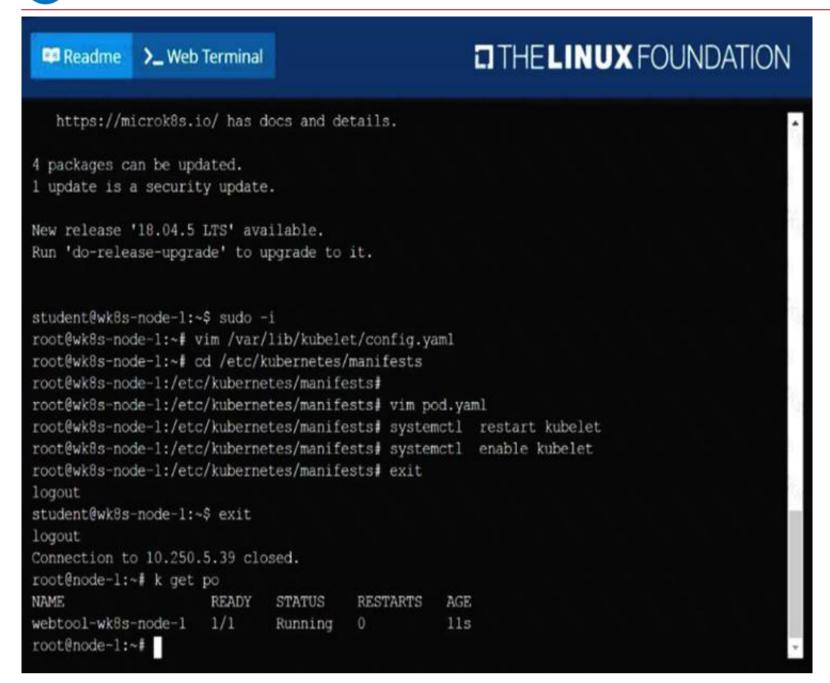
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Score: 4%



Context

You have been asked to create a new ClusterRole for a deployment pipeline and bind it to a specific ServiceAccount scoped to a specific namespace.

Create a new ClusterRole named deployment-clusterrole, which only allows to create the following resource types:

- Deployment
- StatefulSet
- DaemonSet

Create a new ServiceAccount named cicd-token in the existing namespace app-team1.

Bind the new ClusterRole deployment-clusterrole lo the new ServiceAccount cicd-token, limited to the namespace app-team1.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution:

Task should be complete on node k8s -1 master, 2 worker for this connect use command [student@node-1] > ssh k8s

kubectl create clusterrole deployment-clusterrole --verb=create

--resource=deployments,statefulsets,daemonsets

kubectl create serviceaccount cicd-token --namespace=app-team1

kubectl create rolebinding deployment-clusterrole --clusterrole=deployment-clusterrole

--serviceaccount=default:cicd-token --namespace=app-team1



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