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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q43-Q48):

NEW QUESTION # 43

Label a node as app=test and verify

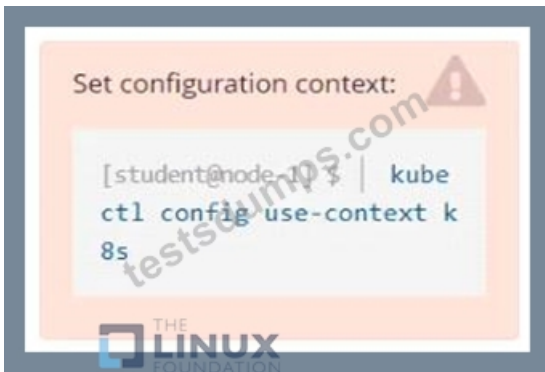
Answer:

Explanation:

```
kubectl label node node-name app=test // Verify kubectl get no -show-labels kubectl get no -l app=test
```

NEW QUESTION # 44

Score: 5%



Task

From the pod label name=cpu-utilizer, find pods running high CPU workloads and write the name of the pod consuming most CPU to the file /opt/KUTR00401/KUTR00401.txt (which already exists).

Answer:

Explanation:

Solution:

```
kubectl top -l name=cpu-user -A  
echo 'pod name' >> /opt/KUT00401/KUT00401.txt
```

NEW QUESTION # 45

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 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
```

Answer:

Explanation:

See the solution below.

Explanation

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\20 C.JPG

```
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 RCs 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 # 46

Scale the deployment `webserver` to 6 pods.

Answer:

Explanation:

See the solution below.

Explanation

solution

```
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:~#
```

NEW QUESTION # 47

Create a persistent volume with name app-data, of capacity 2Gi and access mode ReadWriteMany. The type of volume is hostPath and its location is /srv/app-data.

Answer:

Explanation:

solution

Persistent Volume

A persistent volume is a piece of storage in a Kubernetes cluster. PersistentVolumes are a cluster-level resource like nodes, which don't belong to any namespace. It is provisioned by the administrator and has a particular file size. This way, a developer deploying their app on Kubernetes need not know the underlying infrastructure. When the developer needs a certain amount of persistent storage for their application, the system administrator configures the cluster so that they consume the PersistentVolume provisioned in an easy way.

Creating Persistent Volume

```
kind: PersistentVolume apiVersion: v1 metadata: name:app-data spec: capacity: # defines the capacity of PV we are creating
storage: 2Gi #the amount of storage we are tying to claim accessModes: # defines the rights of the volume we are creating -
ReadWriteMany hostPath: path: "/srv/app-data" # path to which we are creating the volume Challenge Create a Persistent Volume
named app-data, with access mode ReadWriteMany, storage classname shared, 2Gi of storage capacity and the host path /srv/app-
data.
```

```

apiVersion: v1
kind: PersistentVolume
metadata:
  name: app-data
spec:
  capacity:
    storage: 2Gi
  accessModes:
    - ReadWriteMany
  hostPath:
    path: /srv/app-data
  storageClassName: shared

```

“app-data.yaml” 12L, 194C

2. Save the file and create the persistent volume.

3. View the persistent volume.

```

njerry191@cloudshell:~ (extreme-clone-265411) $ kubectl get pv
NAME          CAPACITY  ACCESS MODES  RECLAIM POLICY  STATUS  CLAIM  STORAGECLASS  REASON  AGE
app-data      2Gi      RWX           Retain          Available  Claim  shared         31s

```

Our persistent volume status is available meaning it is available and it has not been mounted yet. This status will change when we mount the persistentVolume to a persistentVolumeClaim.

PersistentVolumeClaim

In a real ecosystem, a system admin will create the PersistentVolume then a developer will create a PersistentVolumeClaim which will be referenced in a pod. A PersistentVolumeClaim is created by specifying the minimum size and the access mode they require from the persistentVolume.

Challenge

Create a Persistent Volume Claim that requests the Persistent Volume we had created above. The claim should request 2Gi. Ensure that the Persistent Volume Claim has the same storageClassName as the persistentVolume you had previously created.

```

kind: PersistentVolumeClaim
apiVersion: v1
metadata:
  name: app-data
spec:

```

```

  accessModes:
    - ReadWriteMany
resources:

```

```

  requests:
    storage: 2Gi

```

```

  storageClassName: shared

```

2. Save and create the pvc

```

njerry191@cloudshell:~ (extreme-clone-265411) $ kubectl create -f app-data.yaml persistentvolumeclaim/app-data created

```

3. View the pvc

```

njerry191@cloudshell:~ (extreme-clone-265411) $ kubectl get pvc
NAME          STATUS  VOLUME  CAPACITY  ACCESS MODES  STORAGECLASS  AGE
pv            Bound   pv      512m     RWX           shared         16m

```

4. Let's see what has changed in the pv we had initially created.

```

njerry191@cloudshell:~ (extreme-clone-265411) $ kubectl get pv
NAME          CAPACITY  ACCESS MODES  RECLAIM POLICY  STATUS  CLAIM  STORAGECLASS  REASON  AGE
pv            512m     RWX           Retain          Bound   default/pv  shared         16m

```

Our status has now changed from available to bound.

5. Create a new pod named myapp with image nginx that will be used to Mount the Persistent Volume Claim with the path /var/app/config.

Mounting a Claim

```

apiVersion: v1 kind: Pod metadata: creationTimestamp: null name: app-data spec: volumes:
- name: configpvc

```

```

  persistentVolumeClaim:
    claimName: app-data
  containers:
    - image: nginx name: app volumeMounts:
      - mountPath: "/srv/app-data"

```

```

    name: configpvc

```

NEW QUESTION # 48

.....

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