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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q70-Q75):

NEW QUESTION # 70

Create the nginx pod with version 1.17.4 and expose it on port 80

Answer:

Explanation:

```
kubectl run nginx --image=nginx:1.17.4 --restart=Never -- port=80
```

NEW QUESTION # 71

Create a nginx pod with label env=test in engineering namespace

Answer:

Explanation:

See the solution below.

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 -n engineering-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 # 72

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 (

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

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

```
[student@nodename] $ | sudo -i
```

Answer:

Explanation:

See the solution below.

Explanation

solution

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```
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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```
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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```
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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@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 # 73

Your Kubernetes cluster is experiencing performance issues, and you suspect that the kubelet process is consuming excessive resources. You need to investigate the kubelet's resource usage and adjust its configuration to improve performance.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Monitor Kubelet Resource Usage:

- Use 'kubectl top node' to view the resource usage of the kubelet process on each node:
- Look for signs of high CPU or memory usage by the kubelet process.

2. Examine Kubelet Logs:

- Check the kubelet logs for any errors or warnings related to resource constraints:
- The logs can be accessed using 'journalctl -u kubelet -n'
- Search for messages that suggest the kubelet is struggling to manage resources.

3. Analyze Kubelet Configuration:

- Review the kubelet's configuration file:
- The configuration file is typically located at '/etc/kubernetes/kubelet/config' on the nodes.
- Check the following settings:
- '--max-pods': The maximum number of pods that the kubelet can manage.
- '--fail-swap-on': Determines if kubelet should fail nodes that have swap enabled.
- '--cgroup-root': Specifies the cgroup root used by kubelet.
- '--cadvisor-port': Specifies the port that the kubelet's cadvisor API listens on.
- '--event-burst': Specifies the maximum number of events that can be buffered before they are sent to the API server.
- '--event-qps': Specifies the maximum number of events that can be sent to the API server per second.

4. Adjust Kubelet Configuration:

- Based on the analysis of the kubelet logs and configuration, consider these adjustments:
- Increase resource limits for kubelet: Allocate more CPU and memory to the kubelet process if necessary.
- Reduce the '-max-pods' value: Limit the number of pods managed by the kubelet to reduce its resource consumption.
- Disable swap: If the kubelet is failing nodes due to swap, disable swap.

5. Restart Kubelet:

- After making configuration changes, restart the kubelet service on the affected nodes:
- For example, use 'systemctl restart kubelet' or 'sudo systemctl restart kubelet' on most Linux distributions.

- Observe the cluster's performance after adjusting the kubelet configuration:
- Use tools like 'kubectl top node' or 'kubectl top pod' to monitor resource usage.
- Check for any improvements in the cluster's overall performance and stability.

- If the issue persists, you might need to:

- ### NEW QUESTION # 74

Answer:

See the solution below.

```
Kubectl logs frontend | grep -i "started" > /opt/error-logs
```

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