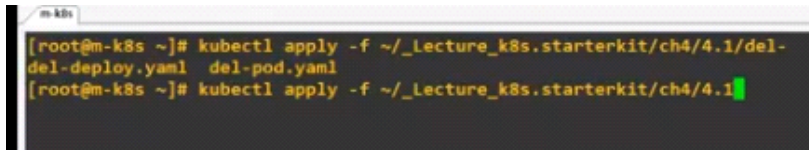


4_문제를 통해 배우는 쿠버네티스

2021년 11월 21일 일요일 오전 12:26

4.1 쿠버네티스 파드에 문제가 생겼다면

파드를 실수로 지웠다면



```
m-k8s
[root@m-k8s ~]# kubectl apply -f ~/_Lecture_k8s.starterkit/ch4/4.1/del-
del-deploy.yaml del-pod.yaml
[root@m-k8s ~]# kubectl apply -f ~/_Lecture_k8s.starterkit/ch4/4.1
```

```
kubectl apply ~/_Lecture_k8s_starter.kit/ch4/4.1
kubectl delete ~/_Lecture_k8s_starter.kit/ch4/4.1
```

kubelet이 문제가 생기면 배포가 정상적으로 되지 않습니다.

4.2 쿠버네티스 워커 노드의 구성요소에 문제가 생겼다면

4.3 쿠버네티스 마스터 노드의 구성요소에 문제가 생겼다면

kube-system의 pod는 삭제되어도 다시 생성됨

마스터노드의 kubelet이 중지된다면 ?

```
[root@m-k8s ~]# systemctl stop kubelet
[root@m-k8s ~]# kubectl delete pod kube-scheduler-m-k8s -n kube-system
pod "kube-scheduler-m-k8s" deleted

^C
[root@m-k8s ~]# kubectl get pods -n kube-system
```

NAME	READY	STATUS	RESTARTS
calico-kube-controllers-744cfd676-g2mrc	1/1	Running	0
calico-node-hm6dn	1/1	Running	0
calico-node-jqzvp	1/1	Running	0
calico-node-wr5c4	1/1	Running	0
calico-node-xxgqp	1/1	Running	0
coredns-74ff55c5b-jt79s	1/1	Running	0
coredns-74ff55c5b-nx9pt	1/1	Running	0
etcd-m-k8s	1/1	Running	0
kube-apiserver-m-k8s	1/1	Running	0
kube-controller-manager-m-k8s	1/1	Running	0
kube-proxy-6nrt4	1/1	Running	0
kube-proxy-9s54q	1/1	Running	0
kube-proxy-dv99j	1/1	Running	0
kube-proxy-x4pdw	1/1	Running	0
kube-scheduler-m-k8s	1/1	Terminating	0

```
[root@m-k8s ~]#
```

중지중인데 이때 deployment등은 잘 배포가 될까?

잘됨

스케줄러 삭제

`kubectl get pods -n kube-system`

```
[root@m-k8s ~]# kubectl delete pod kube-scheduler-m-k8s -n kube-system
pod "kube-scheduler-m-k8s" deleted
[root@m-k8s ~]#
```

삭제해도 다시 만들어짐

```
[root@m-k8s ~]# kubectl get pods -n kube-system
```

NAME	READY	STATUS	RESTARTS
calico-kube-controllers-744cfd676-v52vh	1/1	Running	1
calico-node-hm6dn	1/1	Running	1

```
[root@m-k8s ~]# kubectl get pods -n kube-system
```

NAME	READY	STATUS	RESTARTS
calico-kube-controllers-744cfd676-v52vh 13d	1/1	Running	1
calico-node-hm6dn 18d	1/1	Running	1
calico-node-jqzvp 18d	1/1	Running	1
calico-node-wr5c4 18d	1/1	Running	1
calico-node-xxgqp 18d	1/1	Running	1
coredns-74ff55c5b-9n6c7 13d	1/1	Running	1
coredns-74ff55c5b-tb67h 13d	1/1	Running	1
etcd-m-k8s 18d	1/1	Running	1
kube-apiserver-m-k8s 18d	1/1	Running	1
kube-controller-manager-m-k8s 18d	1/1	Running	1
kube-proxy-6nrt4 18d	1/1	Running	1
kube-proxy-9s54q 18d	1/1	Running	1
kube-proxy-dv99j 18d	1/1	Running	1
kube-proxy-x4pdw 18d	1/1	Running	1
kube-scheduler-m-k8s 19s	1/1	Running	1

```
[root@m-k8s ~]#
```

마스터노드의 kubelet이 중지된다면?

systemctl stop kubelet

kubectl delete pod kube-scheduler-m-k8s -n kube-system

```
[root@m-k8s ~]# kubectl delete pod kube-scheduler-m-k8s -n kube-system
pod "kube-scheduler-m-k8s" deleted
```

삭제중임

```
18d
kube-scheduler-m-k8s 1/1 Terminating 1
3m4s
[root@m-k8s ~]#
```

kubectl create deployment nginx --image=nginx

```
[root@m-k8s ~]# kubectl get pod
```

NAME	READY	STATUS	RESTARTS	AGE
------	-------	--------	----------	-----

```
[root@m-k8s ~]# kubectl get pod
```

NAME	READY	STATUS	RESTARTS	AGE
nginx-6799fc88d8-ms4st	1/1	Running	0	48s

kubectl scale deployment nginx --replicas=3

```
[root@m-k8s ~]# kubectl get pod
```

NAME	READY	STATUS	RESTARTS	AGE
nginx-6799fc88d8-gdbmw	1/1	Running	0	23s
nginx-6799fc88d8-ms4st	1/1	Running	0	102s
nginx-6799fc88d8-pfqdn	1/1	Running	0	23s

kubectl get pods -o wide

별 문제 없음

컨트롤 매니저가 중지된다면 ?

systemctl stop docker

```
[root@m-k8s ~]# systemctl stop docker
Warning: Stopping docker.service, but it can still be activated by:
  docker.socket
[root@m-k8s ~]# kubectl get pods
The connection to the server 192.168.1.10:6443 was refused - did you specify the right host or port?
[root@m-k8s ~]#
```

systemctl start docker하면 다시 정상적으로 돌아옴

```
[root@m-k8s ~]# curl 172.16.103.136
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed
and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>
```

kubectl delete deployment nginx

현업에서는 멀티마스터노드를 두고 운영함