Application Scale Down

Tuesday, January 5, 2021   2:48 PM

<mark>Application Scale Down</mark>

Replicaset Scale Down

First way: Use imperative way to use replicaset name

<mark># kubectl scale --replicas=3 replicaset nginx-replicaset</mark>

```
[root@master ~]# kubectl scale --replicas=3 replicaset nginx-replicaset
replicaset.apps/nginx-replicaset scaled
```

```
[root@master ~]# kubectl get pods
NAME                     READY   STATUS    RESTARTS   AGE
nginx-replicaset-5k2vc   1/1     Running   0          4m57s
nginx-replicaset-8r94k   1/1     Running   0          101s
nginx-replicaset-tc4nr   1/1     Running   0          4m57s
```

Second way: Change in file and then use replace keyword

<mark># kubectl replace -f replicaset.yml</mark>

```
[root@master ~]# kubectl replace -f replicaset.yml
replicaset.apps/nginx-replicaset replaced
```

```
[root@master ~]# kubectl get pods
NAME                     READY   STATUS    RESTARTS   AGE
nginx-replicaset-5k2vc   1/1     Running   0          8m5s
nginx-replicaset-tc4nr   1/1     Running   0          8m5s
```

Third way : Imperative way by using yml file

<mark># kubectl scale --replicas=2 replicaset.yml</mark>

```
[root@master ~]# kubectl scale --replicas=2 -f replicaset.yml
replicaset.apps/nginx-replicaset scaled
```

```
[root@master ~]# kubectl get pods
NAME                     READY   STATUS    RESTARTS   AGE
nginx-replicaset-5k2vc   1/1     Running   0          12m
nginx-replicaset-tc4nr   1/1     Running   0          12m
```

Deployments Scale Down

```
[root@master ~]# kubectl get all
NAME                                   READY    STATUS     RESTARTS    AGE
pod/nginx-deploy-598b589c46-9hjcv      1/1      Running    0           11s
pod/nginx-deploy-598b589c46-frrgv      1/1      Running    0           2m13s
pod/nginx-deploy-598b589c46-gbtlk      1/1      Running    0           11s
pod/nginx-deploy-598b589c46-lwrd2      1/1      Running    0           2m13s

NAME                 TYPE         CLUSTER-IP     EXTERNAL-IP    PORT(S)     AGE
service/kubernetes   ClusterIP    10.96.0.1      <none>         443/TCP     13h

NAME                             READY    UP-TO-DATE    AVAILABLE    AGE
deployment.apps/nginx-deploy     4/4      4             4            2m13s

NAME                                          DESIRED    CURRENT    READY    AGE
replicaset.apps/nginx-deploy-598b589c46       4          4          4        2m13s
```

Deployment scale down with 1 replica

kubectl scale --replicas=1 deployment nginx-deploy

```
[root@master ~]# kubectl scale --replicas=1 deployment nginx-deploy
deployment.apps/nginx-deploy scaled
```

Status of pod, deployment, replicaset

```
[root@master ~]# kubectl get all
NAME                                   READY    STATUS     RESTARTS    AGE
pod/nginx-deploy-598b589c46-frrgv      1/1      Running    0           6m35s

NAME                 TYPE         CLUSTER-IP     EXTERNAL-IP    PORT(S)     AGE
service/kubernetes   ClusterIP    10.96.0.1      <none>         443/TCP     13h

NAME                             READY    UP-TO-DATE    AVAILABLE    AGE
deployment.apps/nginx-deploy     1/1      1             1            6m35s

NAME                                          DESIRED    CURRENT    READY    AGE
replicaset.apps/nginx-deploy-598b589c46       1          1          1        6m35s
```