ReplicaSets

» Replica Sets

Introduction to ReplicaSets

Get a list of all pods in the default namespace.

kubectl get pods

Run a simple web application pod. This web application returns the container hostname it resides on.

kubectl run myfirstapp --image quay.io/coreostrainme/hello-whoami:2.0.1 --restart=Never -l app=myfirstapp,version=1

Confirm the pod was successfully created.

kubectl get pods -l app=myfirstapp,version=1

Create a ReplicaSet object manifest file.

```
cat > replica-set.yaml <<EOF</pre>
 apiVersion: extensions/v1beta1
 kind: ReplicaSet
 metadata:
   name: myfirstreplicaset
 spec:
   selector:
     matchLabels:
      app: myfirstapp
   replicas: 1
   template:
     metadata:
       labels:
         app: myfirstapp
     spec:
       containers:
         - name: nodejs
           image: quay.io/coreostrainme/hello-whoami:2.0.1
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Create the ReplicaSet.
 kubectl create -f replica-set.yaml
Your pod is now under the control of a ReplicaSet!
 kubectl describe replicaset myfirstreplicaset
View your pod YAML
 kubectl get pod myfirstapp -o yaml
In a new terminal window, select all pods that match app=myfirstapp
 watch -n.1 kubectl get pods -l app=myfirstapp --show-labels
```

Delete the pod and watch a new one spawn!

```
kubectl delete pod -l app=myfirstapp
```

Imperatively scale the ReplicaSet to 6 replicas

kubectl scale replicaset myfirstreplicaset --replicas=6

Imperatively scale down the ReplicaSet to 3 replicas

kubectl scale replicaset myfirstreplicaset --replicas=3