ReplicaSets

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Introduction to ReplicaSets

Get a list of all pods in the default namespace.

kubectl get pods

Create a ReplicaSet object manifest file.

```
cat > replica-set.yaml <<EOF</pre>
apiVersion: extensions/v1beta1
kind: ReplicaSet
metadata:
  name: myfirstreplicaset
  namespace: myproject
spec:
  selector:
    matchLabels:
     app: myfirstapp
  replicas: 3
  template:
    metadata:
      labels:
        app: myfirstapp
    spec:
      serviceAccountName: useroot
      containers:
        - name: nodejs
          image: quay.io/coreostrainme/hello-whoami:2.0.1
EOF
```

Create the ReplicaSet.

```
oc apply -f replica-set.yaml
```

In a new terminal window, select all pods that match app=myfirstapp

oc get pods -l app=myfirstapp --show-labels -w

Delete the pod and watch a new one spawn!

oc delete pod -l app=myfirstapp

Imperatively scale the ReplicaSet to 6 replicas

oc scale replicaset myfirstreplicaset --replicas=6

Imperatively scale down the ReplicaSet to 3 replicas using curl .

oc scale replicaset myfirstreplicaset --replicas=3

The kubectl scale command interacts with the /scale endpoint.

curl -X GET http://localhost:8001/apis/extensions/v1beta1/namespaces/myproject/replicasets/myfirstreplicaset/scale

Use the PUT method against the /scale endpoint to change the number of replicas to 5.

curl -X PUT localhost:8001/apis/extensions/v1beta1/namespaces/myproject/replicasets/myfirstreplicaset/scale -H "Content-type: applica tion/json" -d '{"kind":"Scale","apiVersion":"extensions/v1beta1","metadata":{"name":"myfirstreplicaset","namespace":"myproject"},"spec ":{"replicas":5}}'

You can also get information regarding the pod by using the GET method against the /status endpoint.

curl -X GET http://localhost:8001/apis/extensions/v1beta1/namespaces/myproject/replicasets/myfirstreplicaset/status

The status endpoint's primary purpose is to allow a controller (with proper RBAC permissions) to send a PUT method along with the desired status.