## **Deployments**

» Updating a Simple Application

## Let's Update our Example Application from version 1.0.0 to version 2.0.0

Verify the deployment exists

oc get deployment

View the current pods

oc get pods

Verify 1.0.0 of our simple app is up by navigating to the OpenShift Route URL.

oc get route simple-service-route

Note: Open another terminal window and run the following to continually curl the OpenShift Route URL and highlight once our app has been updated to 2.0.0: while true; do curl -s \$ROUTE\_HOST\_URL | egrep --color "v2.0.0|\$"; sleep 1; done;

Set the new image for our deployment to 2.0.0

oc set image deployment simple-deployment hieveryone=quay.io/coreostrainme/hieveryone:2.0.0 --record=true

You should now see a deployment revision number indicating a record of the change

oc rollout history deployment simple-deployment

Open up your web browser and view the newly updated application...but why isn't it as seamless as we would like?

We need Readiness Probes!

Create the new deployment object manifest which adds our readiness probes.

```
cat > updated-deployment.yaml<<EOF</pre>
apiVersion: extensions/v1beta1
kind: Deployment
metadata:
  name: simple-deployment
  namespace: myproject
  labels:
    k8s-app: simple
spec:
  replicas: 3
  revisionHistoryLimit: 10
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 0%
      maxSurge: 10%
  template:
    metadata:
      labels:
        k8s-app: simple
    spec:
      serviceAccountName: useroot
      containers:
        - name: hieveryone
          image: quay.io/coreostrainme/hieveryone:1.0.0
          imagePullPolicy: Always
          ports:
            - name: http
              containerPort: 80
          readinessProbe:
           httpGet:
             path: /
             port: 80
             scheme: HTTP
E0F
```

Replace the simple-deployment.

```
oc replace -f updated-deployment.yaml
```

Set the image for our deployment to v2.0.0.

oc set image deployment simple-deployment hieveryone=quay.io/coreostrainme/hieveryone:2.0.0 --record=true

Thanks to the Readiness Probe, our end users should experience seamless updates.

## Clean Up

Let's clean up the Deployment, Service, and Route.

- oc delete deployment simple-deployment oc delete service simple-service oc delete route simple-service-route