Updating Apps

» Updating a Simple Applications

Let’s Update our Example Application from version 1.0.0 to version 2.0.0

Verify the deployment exists

```
kubectl get deployment
```

View the current pods

```
kubectl get pods
```

Verify `1.0.0` of our simple app is up by navigating to the AWS Load Balancer URL in your favorite web browser.

```
kubectl get service simple-service -o wide
```

Set the new image for our deployment to `2.0.0`

```
kubectl 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

```
kubectl 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
apiVersion: extensions/v1beta1
kind: Deployment
metadata:
  name: simple-deployment
  labels:
    k8s-app: simple
spec:
  replicas: 3
  revisionHistoryLimit: 10
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 0%
      maxSurge: 10%
  template:
    metadata:
      labels:
        k8s-app: simple
    spec:
      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
EOF
```

Replace the simple-deployment.

```
kubectl replace -f updated-deployment.yaml --record=true
```

Set the image for our deployment to v2.0.0.

```
kubectl 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 and LoadBalancer service

```
kubectl delete deployment simple-deployment
```

```
kubectl delete service simple-service
```