```
controlplane $ launch.sh
Waiting for Kubernetes to start...
Kubernetes started
controlplane $ kubectl apply -f deploy.yaml
replicationcontroller/frontend created
replicationcontroller/bad-frontend created
service/frontend created
controlplane $ cat deploy.yaml
kind: List
apiVersion: v1
items:
- kind: ReplicationController
 apiVersion: v1
 metadata:
   name: frontend
   labels:
      name: frontend
  spec:
    replicas: 1
    selector:
      name: frontend
    template:
      metadata:
        labels:
          name: frontend
      spec:
        containers:
        - name: frontend
          image: katacoda/docker-http-server:health
          readinessProbe:
            httpGet:
              path: /
              port: 80
            initialDelaySeconds: 1
            timeoutSeconds: 1
          livenessProbe:
            httpGet:
              path: /
              port: 80
            initialDelaySeconds: 1
```

timeoutSeconds: 1

```
* X *
  Terminal
           initialDelaySeconds: 1
           timeoutSeconds: 1
         livenessProbe:
           httpGet:
             path: /
             port: 80
           initialDelaySeconds: 1
           timeoutSeconds: 1
- kind: ReplicationController
 apiVersion: v1
 metadata:
   name: bad-frontend
   labels:
     name: bad-frontend
 spec:
   replicas: 1
   selector:
     name: bad-frontend
   template:
     metadata:
       labels:
         name: bad-frontend
     spec:
       containers:
       - name: bad-frontend
         image: katacoda/docker-http-server:unhealthy
         readinessProbe:
           httpGet:
             path: /
             port: 80
           initialDelaySeconds: 1
           timeoutSeconds: 1
         livenessProbe:
           httpGet:
             path: /
             port: 80
           initialDelaySeconds: 1
           timeoutSeconds: 1
- kind: Service
 apiVersion: v1
 metadata:
   labels:
     app: frontend
```

```
Terminal
     app: frontend
     kubernetes.io/cluster-service: "true"
   name: frontend
  spec:
    type: NodePort
   ports:
    - port: 80
     nodePort: 30080
   selector:
     app: frontend
controlplane $ kubectl get pods --selector="name=bad-frontend"
NAME
                     READY
                            STATUS
                                       RESTARTS
                                                  AGE
bad-frontend-nmrm6 0/1
                             Running 0
                                                  34s
controlplane $ pod=$(kubectl get pods --selector="name=bad-frontend" --output=jsonpath={.items..metadata.name})
controlplane $ kubectl describe pod $pod
                    bad-frontend-nmrm6
                    default
Namespace:
Priority:
PriorityClassName: <none>
                    controlplane/172.17.0.35
Node:
                    Tue, 23 Mar 2021 03:32:58 +0000
Start Time:
Labels:
                    name=bad-frontend
Annotations:
                    <none>
Status:
                    Running
IP:
                    10.32.0.6
Controlled By:
                    ReplicationController/bad-frontend
Containers:
 bad-frontend:
    Container ID:
                    docker://597f577a6b3cc7262ef62024e7f17761bba33cc6a6d554a80dcbf386768a43aa
                    katacoda/docker-http-server:unhealthy
    Image:
    Image ID:
                    docker-pullable://katacoda/docker-http-server@sha256:bea95c69c299c690103c39ebb3159c39c5061fee1dad13aa1b0625e0c6b52f22
    Port:
                    <none>
   Host Port:
                    <none>
                    Running
    State:
                    Tue, 23 Mar 2021 03:33:34 +0000
     Started:
   Last State:
                    Terminated
     Reason:
                    Error
     Exit Code:
     Started:
                    Tue, 23 Mar 2021 03:33:06 +0000
     Finished:
                    Tue, 23 Mar 2021 03:33:34 +0000
    Ready:
                    False
   Restart Count: 1
                    http-get http://:80/ delay=1s timeout=1s period=10s #success=1 #failure=3
   Liveness:
```

```
Terminal
                    http-qet http://:80/ delay=1s timeout=1s period=10s #success=1 #failure=3
   Readiness:
   Environment:
                    <none>
   Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from default-token-c7m8b (ro)
Conditions:
                    Status
 Type
 Initialized
                    True
 Readv
                    False
  ContainersReady
                    False
  PodScheduled
                    True
Volumes:
 default-token-c7m8b:
                 Secret (a volume populated by a Secret)
   Type:
   SecretName: default-token-c7m8b
   Optional:
OoS Class:
                 BestEffort
Node-Selectors: <none>
Tolerations:
                 node.kubernetes.io/not-ready:NoExecute for 300s
                 node.kubernetes.io/unreachable:NoExecute for 300s
Events:
          Reason
                                        From
                                                                Message
  Type
                      Age
          Scheduled
                     45s
                                        default-scheduler
                                                                Successfully assigned default/bad-frontend-nmrm6 to controlplane
 Normal
          Pulling
                      43s
                                        kubelet, controlplane
                                                               Pulling image "katacoda/docker-http-server:unhealthy"
 Normal
 Normal
          Pulled
                      38s
                                        kubelet, controlplane
                                                                Successfully pulled image "katacoda/docker-http-server:unhealthy"
                                        kubelet, controlplane
                                                               Created container bad-frontend
 Normal
          Created
                      9s (x2 over 38s)
 Normal
          Started
                      9s (x2 over 37s)
                                        kubelet, controlplane
                                                                Started container bad-frontend
 Warning Unhealthy 9s (x3 over 29s)
                                        kubelet, controlplane
                                                               Liveness probe failed: HTTP probe failed with statuscode: 500
                                                               Container bad-frontend failed liveness probe, will be restarted
 Normal
          Killing
                                        kubelet, controlplane
 Normal
          Pulled
                      93
                                        kubelet, controlplane
                                                               Container image "katacoda/docker-http-server:unhealthy" already present on machine
 Warning Unhealthy 6s (x4 over 36s) kubelet, controlplane Readiness probe failed: HTTP probe failed with statuscode: 500
controlplane $ kubectl get pods --selector="name=frontend"
                 READY
                         STATUS
                                   RESTARTS
                 1/1
                                              53s
frontend-cahtn
                         Running
controlplane $ kubectl get pods --selector="name=frontend"
                         STATUS
NAME
                 READY
                                   RESTARTS
                                              AGE
               1/1
                         Running
                                              58s
frontend-cghtn
controlplane $ pod=$(kubectl get pods --selector="name=frontend" --output=jsonpath={.items..metadata.name})
controlplane $ kubectl exec $pod -- /usr/bin/curl -s localhost/unhealthy
controlplane $ kubectl get pods --selector="name=frontend"
                 READY
                         STATUS
                                   RESTARTS
                                              AGE
                1/1
frontend-cqhtn
                         Running
                                   0
                                              64s
controlplane $
```