Probes

Kubernetes has a variety of features that can help improve application reliability. Probes can help in this regard by keeping the cluster better informed about the state of container applications. In this lesson, we will discuss probes and how they can be used in Docker Kubernetes Service.

Relevant Documentation

- Probes

Lesson Reference

Access UCP in a browser at `https://<UCP_SERVER_PUBLIC_IP>`.

We can create Kubernetes objects in UCP by navigating to **Kubernetes** > **+ Create**. Make sure to use the default namespace throughout this exercise.

Make sure to view the `default` namespace (**Kubernetes** > **Namespaces**, then click **Set Context** next to `default`).

Create a pod with a liveness probe and a readiness probe.

```
apiVersion: v1
kind: Pod
metadata:
  name: probe-pod
spec:
  containers:
  - name: nginx
    image: nginx:1.19.1
    ports:
    - containerPort: 80
    livenessProbe:
      httpGet:
        path: /
        port: 80
      initialDelaySeconds: 3
      periodSeconds: 3
    readinessProbe:
      httpGet:
        path: /
        port: 80
      initialDelaySeconds: 3
      periodSeconds: 3
```

Verify that the pod starts up successfully.