DaemonSets

DaemonSets in Kubernetes offer the ability to run container replicas on each cluster node. In this lesson, we will introduce DaemonSets and explore how they are used. We will also demonstrate how to create them in our clusters.

Relevant Documentation

- DaemonSets

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 DaemonSet.

```
apiVersion: apps/v1
kind: DaemonSet
metadata:
  name: my-daemonset
spec:
  selector:
    matchLabels:
      app: my-ds
  template:
    metadata:
      labels:
        app: my-ds
    spec:
      containers:
      - name: busybox
        image: busybox
        command: ["sh", "-c", "while true; do sleep 10; done"]
```

Watch as the DaemonSet spins up its pods. The number of pods on the DaemonSet should match the number of Kubernetes nodes in the cluster.

Navigate to **Kubernetes** > **Pods**.

We should see our DaemonSet pods listed. Note which node each pod is running on. There should be exactly one replica for the DaemonSet on each node.