Deployments provide a variety of features to help you automatically manage groups of replica pods. In this lesson, we will discuss what deployments are. We will also create a simple deployment and go through the process of scaling the deployment up and down by changing the number of desired replicas.

## **Relevant Documentation**

• https://kubernetes.io/docs/concepts/workloads/controllers/deployment/

## **Lesson Reference**

Here is a simple deployment for three replica pods running nginx.

```
apiVersion: apps/v1
kind: Deployment
metadata:
 name: nginx-deployment
spec:
 replicas: 3
 selector:
   matchLabels:
     app: nginx
 template:
   metadata:
     labels:
       app: nginx
   spec:
     containers:
     - name: nginx
       image: nginx:1.7.9
       ports:
        - containerPort: 80
```

You can explore and manage deployments using the same kubectl commands you would use for other object types.

```
kubectl get deployment <deployment name>
kubectl describe deployment <deployment name>
kubectl edit deployment <deployment name>
kubectl delete deployment <deployment name>
```