



# Scaling Application Instances Tasks



## SCALING APPLICATIONS

### DECLARATIVE

### IMPERATIVE

1

```
vi nginx-deploy.yaml
```

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deploy
spec:
  replicas: [COUNT]
  selector:
    matchLabels:
      app: nginx-app
  template:
    metadata:
      name: nginx-pod
      labels:
        app: nginx-app
    spec:
      containers:
        - name: nginx-container
          image: nginx
          ports:
            - containerPort: 80
```

2

```
kubectl apply -f nginx-deploy.yaml
```

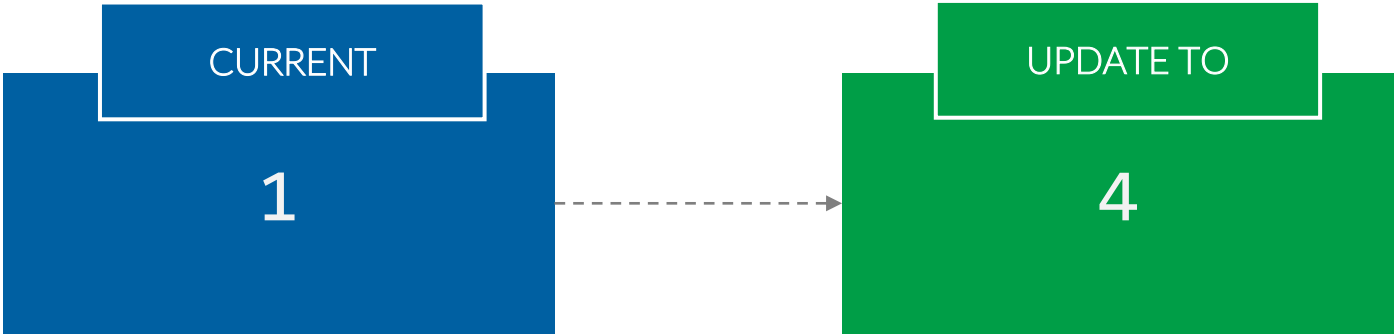
1

```
kubectl scale deployment [NAME] --replicas=[COUNT]
```

EXISTING DEPLOYMENT

```
kubectl get deploy nginx-deploy
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE	CONTAINERS	IMAGES	SELECTOR
nginx-deploy	1/1	1	1	6m15s	nginx-container	nginx:1.19	app=nginx-app



## SCALE UP APPLICATION INSTANCES



```
kubectl scale deployment nginx-deploy --replicas=4
```

```
deployment.apps/scalling-apps scaled
```

## VALIDATE

```
kubectl get deploy nginx-deploy -o wide
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE	CONTAINERS	IMAGES	SELECTOR
nginx-deploy	4/4	4	4	14m	nginx-container	nginx:1.19	app=nginx-app

## SCALE **DOWN** APPLICATION INSTANCES



```
kubectl scale deployment scalling-apps --replicas=1
```

```
deployment.apps/scalling-apps scaled
```

## VALIDATE

```
kubectl get deploy nginx-deploy -o wide
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE	CONTAINERS	IMAGES	SELECTOR
nginx-deploy	1/1	1	1	14m	nginx-container	nginx:1.19	app=nginx-app