

4.4 Container Scaling with Docker Swarm

Use the commands below to create a service and scale the service up and down to increase or decrease Docker containers

```
docker service create -p 8080:8080 --name bootcampjocatalin/kubernetes-bootcamp:v1
```

```
docker service ls
```

```
docker service ps bootcamp
```

```
curl localhost:8080
```

```
root@ip-172-31-17-73:~# docker service create -p 8080:8080 --name bootcamp jocatalin/kubernetes-bootcamp:v1
pk1b5vzestjgg0ejhbhzas3vi
overall progress: 1 out of 1 tasks
1/1: running [=====>]
verify: Service converged
root@ip-172-31-17-73:~# docker service ls
ID            NAME      MODE      REPLICAS  IMAGE
pk1b5vzestjg bootcamp  replicated 1/1        jocatalin/kubernetes-bootcamp:v1
plsovs6zdl80  webserver replicated 1/1        phpcode:latest
root@ip-172-31-17-73:~# docker service ps bootcamp
ID            NAME      IMAGE      NODE           DESIRED STATE
70jbzrm9mq11  bootcamp.1 jocatalin/kubernetes-bootcamp:v1 ip-172-31-17-73 Running
root@ip-172-31-17-73:~# curl localhost:8080
Hello Kubernetes bootcamp! | Running on: 453e2d4bf870 | v=1
root@ip-172-31-17-73:~# curl localhost:8080
Hello Kubernetes bootcamp! | Running on: 453e2d4bf870 | v=1
root@ip-172-31-17-73:~#
```

Once the container deployed, we can scale up and down the Docker swarm service following the process shown below

```
docker service scale bootcamp=3
```

```
docker service ps bootcamp
```

```
curl localhost:8080
```

```
root@ip-172-31-17-73:~# docker service scale bootcamp=3
bootcamp scaled to 3
overall progress: 3 out of 3 tasks
1/3: running [=====>]
2/3: running [=====>]
3/3: running [=====>]
verify: Service converged
root@ip-172-31-17-73:~# docker service ps bootcamp
ID            NAME      IMAGE      NODE           DESIRED STATE
70jbzrm9mq11  bootcamp.1 jocatalin/kubernetes-bootcamp:v1 ip-172-31-17-73 Running
j91jttsgiwpc  bootcamp.2 jocatalin/kubernetes-bootcamp:v1 ip-172-31-17-73 Running
0nu6c719dmt1  bootcamp.3 jocatalin/kubernetes-bootcamp:v1 ip-172-31-17-73 Running
root@ip-172-31-17-73:~# curl localhost:8080
Hello Kubernetes bootcamp! | Running on: 2899104e3c94 | v=1
root@ip-172-31-17-73:~# curl localhost:8080
Hello Kubernetes bootcamp! | Running on: 8c8d2c6a855a | v=1
root@ip-172-31-17-73:~# curl localhost:8080
Hello Kubernetes bootcamp! | Running on: 453e2d4bf870 | v=1
```

