

Creating service for scaling

- 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
pk1b5vzestjjg0ejhbhzas3vi
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
pk1b5vzestjj      bootcamp      replicated    1/1                jocatalin/kubernetes-bootcamp:v1
plsows6zdl80      webserver     replicated    1/1                phpcode:latest
root@ip-172-31-17-73:~# docker service ps bootcamp
ID                NAME          IMAGE          NODE              DESIRED STATE
70jbzbm9mgll      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
70jbzbm9mgll	bootcamp.1	jocatalin/kubernetes-bootcamp:v1	ip-172-31-17-73	Running
j9ijtttsqiwpc	bootcamp.2	jocatalin/kubernetes-bootcamp:v1	ip-172-31-17-73	Running
0nu6c7i9dmtl	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
```