Going through the Container Life Cycle

1 Create a container

```
$ docker create -it \
    --name ubuntu-create \
    --cpus="0.5" \
    --cap-add=ALL \
    --env "LOGNAME=Cerulean Canvas" \
    --memory=400M \
    --memory-reservation=200M \
    --pid=host \
    --priviledged \
    --restart=always \
    ubuntu:18.04
```

2 List out containers

```
$ docker ps -a
```

Cerulean Canvas

3 Start the container

```
$ docker start ubuntu-create
```

4 List out containers

```
$ docker ps -a
```

5 Run a container

```
$ docker create -it \
  --name ubuntu-run \
  --cpus="0.5" \
  --cap-add=ALL \
  --env "LOGNAME=Cerulean Canvas" \
  --memory=400M \
  --memory-reservation=200M \
  --pid=host \
  --priviledged \
  --restart=always \
  ubuntu:18.04
```

6 List out containers

```
$ docker ps -a
```

Cerulean Canvas

7 Pause the container

```
$ docker pause ubuntu-run
```

8 List out containers

```
$ docker ps -a
```

9 Unpause the container

```
$ docker unpause ubuntu-run
```

10 List out containers

```
$ docker ps -a
```

11 List out containers

```
$ docker ps -a
```

12 Stop the container

```
$ docker stop ubuntu-run
```

13 List out containers

```
$ docker ps -a
```

14 Start the container

```
$ docker start ubuntu-run
```

15 Kill the container

```
$ docker kill ubuntu-run
```

Cerulean Canvas

16 List out containers

```
$ docker ps -a
```

17 Start the container

```
$ docker start ubuntu-run
```

18 List out containers

```
$ docker ps -a
```

Cerulean Canvas