```
agrant@ubuntu-xenial:~$ sudo docker network ls
NETWORK ID
                NAME
                           DRIVER
                                      SCOPE
4ed359d32519
                                      local
                bridge
                           bridge
                                      local
29569d41d34f
                host
                           host
5c067146452c
                1w1
                           bridge
                                      local
                           bridge
8dc725c9fb38
                1w2
                                      local
d7b75df6c9a2
                newtork1
                           bridge
                                      local
                           nu11
1935e50da7b7
                none
                                      local
vagrant@ubuntu-xenial:~$ sudo docker network create network1
2ae23c6d3a559bc52f6e829c32c6cd01ec4d50cfe5ef1475eb35d4ca0e09c9d5
vagrant@ubuntu-xenial:~$ sudo docker network ls
NETWORK ID
                NAME
                           DRIVER
                                      SCOPE
4ed359d32519
                bridge
                           bridge
                                      local
29569d41d34f
                host
                                      local
                           host
5c067146452c
                1w1
                           bridge
                                      local
8dc725c9fb38
                Tw2
                           bridge
                                      local
2ae23c6d3a55
                           bridge
                network1
                                      local
d7b75df6c9a2
                newtork1
                           bridge
                                      local
                           nu11
1935e50da7b7
                                      local
                none
```

```
Vagrant@ubuntu-xenial:-$ sudo docker run -d --name=contl --net=networkl alpine
5b304f0532f5f68dc3ac77bde26c6a7c57d01f0403e7d7a89c7ebb0c8lfa90fe
Vagrant@ubuntu-xenial:-$ sudo docker run -d --name=cont2 --net=networkl alpine ping
60faa62448b49f2b15027acc32df5682550e077cc049fa89c8e83122a290567e
Vagrant@ubuntu-xenial:-$ sudo docker ps
CONTAINER ID IMAGE
45e083eb94ba redis "docker-entrypoint.s..." 12 minutes ago Up 12 minutes 6
Vagrant@ubuntu-xenial:-$ sudo docker ps
CONTAINER ID IMAGE
COMMAND CREATED STATUS
P 12 minutes ago Up 12 minutes 6
Vagrant@ubuntu-xenial:-$ sudo docker ps -a
CONTAINER ID IMAGE
COMMAND CREATED STATUS
CONTAINER ID IMAGE
00faa62448b4 alpine "ping" 23 seconds ago Exited (0) 32 sec
ce72682c684e alpine "ping lw2" 7 minutes ago Exited (0) 32 sec
ce72682c684e alpine "ping lw2" 7 minutes ago Exited (0) 7 minu
df1a97807c6f alpine "ping lw2" 7 minutes ago Exited (0) 7 minu
df1a97807c6f alpine "bin/sh" 8 minutes ago Exited (0) 7 minu
df1a97807c6f alpine "bin/sh" 7 days ago Exited (0) 7 days
22767e79cbbea ubuntu "bin/sbsh" 7 days ago Exited (0) 7 days
23753f65edf alpine "bin/sh" 7 days ago Exited (0) 7 days
246a32c751f96 alpine "bin/sh" 7 days ago Exited (0) 7 days
256a2b25051 alpine "bin/sh" 7 days ago Exited (0) 7 days
256b2d9fc4a alpine "bin/sh" 7 days ago Exited (0) 7 days
25602cdd9fc4a alpine "bin/sh" 7 days ago Exited (0) 7 days
25602cdd9fc4a alpine "bin/sh" 7 days ago Exited (0) 7 days
25602cdd9fc4a alpine "bin/sh" 7 days ago Exited (0) 7 days
25602cdd9fc4a alpine "bin/sh" 7 days ago Exited (0) 7 days
25602cdd9fc4a alpine "bin/sh" 7 days ago Exited (0) 7 days
25602cdd9fc4a alpine "bin/sh" 7 days ago Exited (0) 7 days
25602cdd9fc4a alpine "bin/sh" 7 days ago Exited (0) 7 days
25602cdd9fc4a alpine "bin/sh" 7 days ago Exited (0) 7 days
25602cdd9fc4a alpine "bin/sh" 7 days ago Exited (0) 7 days
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PORTS
6379/tcp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAMES
1w2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAMES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 S
d (1) 22 seconds ago
d (0) 32 seconds ago
d (0) 7 minutes ago
d (0) 8 minutes ago
minutes
d (0) 7 days ago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PORTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cont2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cont1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lw3
lw1
lw2
keen_sammet
        df1a97807c6f
45e083eb94ba
82f7e79cbbea
4fba3c751f96
9a9753f65edf
216e32b25051
89fb085c9e2d
5c02cdd9fc4a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 minutes ago
12 minutes ago
7 days ago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6379/tcp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      awesome_darwin
cool_yonath
exciting_mclean
                                                                                                                                                                                                                                                                                        /bin/sh"
/bin/sh"
/bin/sh"
                                                                                                                                                                alpine
alpine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ecstatic_leavitt
nostalgic_shirley
```

```
vagrant@ubuntu-xenial:-$ sudo docker network create network2
c267eca5b2bb6640e096b1a3371e199dda30b4cdc0a76e598e491b00d58ba14e
vagrant@ubuntu-xenial:-$ sudo docker run -d --name=cont3 --net=network1 redis
04d28b3e649d10075d6a5748684ef544acbb1d7154b599a3b0616a29a127b8c0
vagrant@ubuntu-xenial:-$ sudo docker ps
cONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
04d28b3e649d redis "docker-entrypoint.s..." 10 seconds ago Up 9 seconds 6379/tcp cont3
45e083eb94ba redis "docker-entrypoint.s..." 15 minutes ago Up 15 minutes 6379/tcp lw2
```

```
vagrant@ubuntu-xenial:~$ sudo docker run -d --name=cont4 --net=network2 redis
4d024663b8f160767a83898e2271f3871d607aad5d817edb61581a8471ed9eb4
vagrant@ubuntu-xenial:~$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
4d024663b8f1 redis "docker-entrypoint.s..." 17 seconds ago Up 16 seconds 6379/tcp cont4
04d28b3e649d redis "docker-entrypoint.s..." 2 minutes ago Up 2 minutes 6379/tcp cont3
45e083eb94ba redis "docker-entrypoint.s..." 17 minutes ago Up 17 minutes 6379/tcp lw2
vagrant@ubuntu-xenial:~$ sudo docker run -d --name=cont6 --net=network2 alpine ping network1
bda5f205402e59847a19f22fa18c2e62c526db0326c506b0c3939819e7b21bb2
```

```
agrant@ubuntu-xenial:~$ sudo docker network ls
NETWORK ID
4ed359d32519
                                           SCOPE
                 NAME
                               DRIVER
                                           local
                  bridge
                               bridge
29569d41d34f
                                           local
                 host
                               host
5c067146452c
                  1w1
                               bridge
                                           local
8dc725c9fb38
                               bridge
                  1w2
                                           local
2ae23c6d3a55
                 network1
                               bridge
                                           local
                               bridge
c267eca5b2bb
                 network2
                                           local
d7b75df6c9a2
                 newtork1
                               bridge
                                           local
1935e50da7b7
                               null'
                 none
                                           local
vagrant@ubuntu-xenial:~$ sudo docker network connect network2 network1
Error response from daemon: No such container: network1
vagrant@ubuntu-xenial:~$ sudo docker network connect network2 cont6 vagrant@ubuntu-xenial:~$ sudo docker network connect network1 cont6
```