

Anurag Pachauri

500069505

R171218026

To link one container with another container while launching and monitor the container.

Procedure:

1) First launch one container using command **docker run**. Now while launching another container use option **--link <container-1-name:alias>**. For example, in the below screenshot to link dockeros-2 with dockeros-1, **--link dockeros-1:myos**.

```
File Edit View Search Terminal Help
[root@localhost ~]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
39e4da3d4780f7b1bc21dfd95661cad3f3bf9782c6de843aecc85fda48efad2b
[root@localhost ~]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
39e4da3d4780        centos              "/bin/bash"         8 seconds ago       Up 6 seconds                dockeros-1
[root@localhost ~]# docker run -dit --name dockeros-2 --link dockeros-1:myos centos
8d741d400c64c40c1878c5195a75d109bfe752d27190e4de634fd45d9072ca60
[root@localhost ~]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
8d741d400c64        centos              "/bin/bash"         3 seconds ago       Up 3 seconds                dockeros-2
39e4da3d4780        centos              "/bin/bash"         54 seconds ago      Up 53 seconds                dockeros-1
[root@localhost ~]#
```

2) Now go inside the second container using command **docker exec -it <container-name> bash**. Once inside the container use **ping** command to ping to first container using

its alias name.

```
[root@localhost ~]#
[root@localhost ~]# docker exec -it dockeros-2 bash
[root@8d741d400c64 /]# ping myos
PING myos (172.17.0.2) 56(84) bytes of data.
64 bytes from myos (172.17.0.2): icmp_seq=1 ttl=64 time=0.119 ms
64 bytes from myos (172.17.0.2): icmp_seq=2 ttl=64 time=0.067 ms
64 bytes from myos (172.17.0.2): icmp_seq=3 ttl=64 time=0.094 ms
64 bytes from myos (172.17.0.2): icmp_seq=4 ttl=64 time=0.079 ms
64 bytes from myos (172.17.0.2): icmp_seq=5 ttl=64 time=0.063 ms
64 bytes from myos (172.17.0.2): icmp_seq=6 ttl=64 time=0.082 ms
64 bytes from myos (172.17.0.2): icmp_seq=7 ttl=64 time=0.052 ms
64 bytes from myos (172.17.0.2): icmp_seq=8 ttl=64 time=0.047 ms
^C
--- myos ping statistics ---
8 packets transmitted, 8 received, 0% packet loss, time 140ms
rtt min/avg/max/mdev = 0.047/0.075/0.119/0.023 ms
[root@8d741d400c64 /]# exit
exit
[root@localhost ~]#
```

3) Now launch another container using **docker run** command. Now run **docker stats** command to see the stats of running container and monitor them.

```
[root@localhost ~]#
[root@localhost ~]# docker run -dit -p 8083:80 httpd
678a6f3d555a6ff4cd694cb40d4fc2460871d93a95ecfbfda5f22f7075a9c167
[root@localhost ~]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
678a6f3d555a        httpd              "httpd-foreground"  9 seconds ago       Up 4 seconds        0.0.0.0:8083->80/tcp zealous_booth
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# docker stats
```

CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
678a6f3d555a	zealous_booth	0.01%	24.66MiB / 3.692GiB	0.65%	2.31kB / 0B	17.3MB / 0B	82