

Practice C : DNS Round Robin

- Since Docker engine 1.XX , you can have multiple containers on a created network respond to same DNS address , this creates a DNS Round Robin
- DNS Round Robin is a mechanism to reach any host with single naming [kind of doing cheap load balancing]
- The practice :
- Create a new virtual network [name it mynet]
- Pull elasticsearch:2 and create 2 container from that image
- Pull centos image and create one container
- All container must be attached to mynet private network
- Use option --network-alias when creating the container to give them additional DNS name to respond
- Use centos container curl to conform the load balancing

Practice C : Solution

```
[root@servera ~]# docker network create mynet
860edc537a9fdec3a0fd67a8ea4a7a0d13121b25194d4ec645fd7901a5a5abaf
[root@servera ~]#
[root@servera ~]# docker pu
pull push
[root@servera ~]# docker pull elasticsearch:2
2: Pulling from library/elasticsearch
05d1a5232b46: Pull complete
5cee356eda6b: Pull complete
```

```
[root@servera ~]# docker container run -d --net mynet --net-alias search elasticsearch:2
ded89236eafc37e94a18267f510375406a78e7c1d1032edd15b1e1b391a2d84c
[root@servera ~]#
[root@servera ~]# docker container run -d --net mynet --net-alias search elasticsearch:2
c40fbee79ea8a438c2576c578a6f597663700d4090c0c37d96f90b98d75f564
[root@servera ~]#
```

```
[root@servera ~]# docker container ls
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
c40fbee79ea	elasticsearch:2	"/docker-entrypoint..."	10 seconds ago	Up 8 seconds	9200/tcp, 9300/tcp	stupefied_mccarthy
ded89236eafc	elasticsearch:2	"/docker-entrypoint..."	13 seconds ago	Up 11 seconds	9200/tcp, 9300/tcp	keen_goldwasser
6c6fb3f28e4c	nginx	"nginx -g 'daemon of..."	7 hours ago	Up 7 hours	0.0.0.0:80->80/tcp	proxy
ff2388a9aee8	httpd	"httpd-foreground"	7 hours ago	Up 7 hours	0.0.0.0:7171->80/tcp	webserver
3d8631b74516	mysql	"docker-entrypoint.s..."	8 hours ago	Up 8 hours	0.0.0.0:3306->3306/tcp, 33060/tcp	db

Practice C: Solution

```
[root@servera ~]# docker container run --net mynet --rm -it centos:7 bash
[root@b07d59036bc9 /]#
```

```
[root@b07d59036bc9 /]# curl -s search:9200
{
  "name" : "Locust",
  "cluster_name" : "elasticsearch",
  "cluster_uuid" : "3ffU3fZrR3a5ETuaTHCkpw",
  "version" : {
    "number" : "2.4.6",
    "build_hash" : "5376dca9f70f3abef96a77f4bb22720ace8240fd",
    "build_timestamp" : "2017-07-18T12:17:44Z",
    "build_snapshot" : false,
    "lucene_version" : "5.5.4"
  },
  "tagline" : "You Know, for Search"
}
[root@b07d59036bc9 /]# curl -s search:9200
{
  "name" : "Titan",
  "cluster_name" : "elasticsearch",
  "cluster_uuid" : "7pr4RywhQG-DW2z0FAWnUg",
  "version" : {
    "number" : "2.4.6",
    "build_hash" : "5376dca9f70f3abef96a77f4bb22720ace8240fd",
    "build_timestamp" : "2017-07-18T12:17:44Z",
    "build_snapshot" : false,
    "lucene_version" : "5.5.4"
  },
  "tagline" : "You Know, for Search"
}
```