

UNIVERSIDAD EUROPEA

DESPLIEGUE DE APLICACIONES

Docker

Tarea 4.3 - Networking

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Networking

- Paso 1

```
root@dani:/home/dani# docker run -d -P --name web httpd
5eeafd7370a48284157b0e1f0674224c7fe27b358791e726cec2908e5d7cc44f
root@dani:/home/dani# _
```

```
root@dani:/home/dani# docker ps
CDMMAND CREATED STATUS PORTS
CDMMAND Sepaid737304 httpd "httpd-foreground" 39 seconds ago Up 38 seconds 0.0.0.0:32768->80/tcp, :::32768->80/tcp web
```

- Paso 2

- Paso 3

```
root@dani:/home/dani# docker network create -d bridge miRedLocal
fe9fd4c2f01771748cb1bf0d61562b1808141f59c9e0099d7b2e18c35a59ceff
root@dani:/home/dani#
re>ruot@dani:/home/dani# docker network ls
NETWORK ID NAME DRIVER SCOPE
08fe46443bb4 bridge bridge local
daf899614421 host host local
fe9fd4c2f017 miRedLocal bridge local
ef45d882bbea none null local
root@dani:/home/dani# _
```

Paso 4

root@dani:/home/dani# docker run -d --network=miRedLocal --name web1 httpd 7bf8370f01f0b34e6806f00351a0d4978939c7916498528a2092c9622fca3c25 root@dani:/home/dani# _

```
"Networks": {
    "iniRed.ocal": {
        "IFAMCOnfig": null,
        "Links": null,
        "Aliases": null,
        "NetworkID": "fe9fddc2fe1771748cb1bf0d61562b1808141f59c9e0099d7b2e18c35a59ceff",
        "NetworkID": "fe9fddc2fe1771748cb1bf0d61562b1808141f59c9e0099d7b2e18c35a59ceff",
        "EndpointID": "9c3f299974a507829f2822dab05fb191f104d6eb467d19d8985b5223ee35b701",
        "Gateway": "172.18.0.1",
        "IFPAddress": "172.18.0.2",
        "IFPrefixLen": 16,
        "IFPSateway": "",
        "GlobalTpv6PrefixLen": 0,
        "OrlverOpts": null,
        "OnSNames": [
        "web1",
        ""7bf8370f01f0"
        ]
    }
}
```

- Paso 5

root@dani:/home/dani# docker run -d --name web2 httpd 5a26e5d2e767d03a55c6100a333fd18dd7004e32f884b58035d26e4c19ca680d root@dani:/home/dani#

```
"Networks": {
    "bridge": {
        "!FAMConfig": null,
        "Links": null,
        "Aliases": null,
        "MacAddress": "02:42:ac:11:00:03",
        "NetworkID": "08fe6443bb4dda449905445705e97b68c3e964f16f1f632932ed14578daffeb",
        "Endpo.intID": "ddde9cfbc9aedf5bd07f5c28309104af62afe719f4efe83c6bc6211f99e5f633"
        "Gateway!: "172.17.0.1",
        "IPAddress": "172.17.0.3",
        "IPPrefixLen": 16,
        "IPV65ateway!: "",
        "GlobalIPv6Address": "",
        "GlobalIPv6PrefixLen": 0,
        "briverOpts": null,
        "DNSNames": null
```

- Paso 6

root@dani:/home/dani# docker exec -ti web1 /bin/bash root@7bf8370f01f0:/usr/local/apache2# _

```
root@7bf8370f01f0:/usr/local/apache2# ping 172.17.0.3
PING 172.17.0.3 (172.17.0.3) 56(84) bytes of data.
^C
--- 172.17.0.3 ping statistics ---
6 packets transmitted, 0 received, 100% packet loss, time 5115ms
root@7bf8370f01f0:/usr/local/apache2#
```

- Paso 7

```
root@7bf8370f01f0:/usr/local/apache2# exit
exit
root@dani:/home/dani# docker network connect miRedLocal web2
```

```
root@dani:/home/dani# docker exec -ti web1 /bin/bash
root@7bf8370f01f0:/usr/local/apache2# ping 172.18.0.3
PING 172.18.0.3 (172.18.0.3) 56(84) bytes of data.
64 bytes from 172.18.0.3: icmp_seq=1 ttl=64 time=0.200 ms
64 bytes from 172.18.0.3: icmp_seq=2 ttl=64 time=0.171 ms
64 bytes from 172.18.0.3: icmp_seq=3 ttl=64 time=0.191 ms
64 bytes from 172.18.0.3: icmp_seq=4 ttl=64 time=0.105 ms
64 bytes from 172.18.0.3: icmp_seq=5 ttl=64 time=0.203 ms
^C
--- 172.18.0.3 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4098ms
rtt min/avg/max/mdev = 0.105/0.174/0.203/0.036 ms
root@7bf8370f01f0:/usr/local/apache2# _
```