Terminal +

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$
$ docker network create backend-network
b32c1cc67448e5928b837f0107ca239c0b084e7e8447e2039f0f5b222b793a21
$ docker run -d --name=redis --net=backend-network redis
17cd12cb54689d81e1b49e649e07eced293da975849a8324ab68472e0e5061f2
$ docker run --net=backend-network alpine env
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
HOSTNAME=3652697c4cb1
HOME=/root
$ docker run --net=backend-network alpine cat /etc/hosts
127.0.0.1        localhost
::1      localhost ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
172.19.0.3       1f31c9e20de5
$ docker run --net=backend-network alpine cat /etc/resolv.conf
nameserver 127.0.0.11
options ndots:0
$ docker run --net=backend-network alpine ping -c1 redis
PING redis (172.19.0.2): 56 data bytes
64 bytes from 172.19.0.2: seq=0 ttl=64 time=0.093 ms

--- redis ping statistics ---
1 packets transmitted, 1 packets received, 0% packet loss
round-trip min/avg/max = 0.093/0.093/0.093 ms
$ docker network create frontend-network
92fa959c5cb87434df601d71637eeb2885da1990e9b0fbbb055c8b668a95999f
$ docker network connect frontend-network redis
$ docker run -d -p 3000:3000 --net=frontend-network katacoda/redis-node-docker-example
Unable to find image 'katacoda/redis-node-docker-example:latest' locally
curl docker:3000
latest: Pulling from katacoda/redis-node-docker-example
12b41071e6ce: Pull complete
a3ed95caeb02: Pull complete
49a025abf7e3: Pull complete
1fb1c0be01ab: Pull complete
ae8c1f781cde: Pull complete
db73207ad2ae: Pull complete
446b13034c13: Pull complete
Digest: sha256:1aae9759464f00953c8e078a0e0d0649622fef9dd5655b1491f9ee589ae904b4
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db73207ad2ae: Pull complete
446b13034c13: Pull complete
Digest: sha256:1aae9759464f00953c8e078a0e0d0649622fef9dd5655b1491f9ee589ae904b4
Status: Downloaded newer image for katacoda/redis-node-docker-example:latest
b881ef1ef0a0593eb705a41f5209a387bf215a5f6a2c5e88717f951168947569
$ curl docker:3000
curl: (7) Failed to connect to docker port 3000: Connection refused
$ curl docker:3000
This page was generated after talking to redis.

Application Build: 1

Total requests: 1

IP count:
    ::ffff:172.17.0.22: 1
$ docker network create frontend-network2
ddd2ba51b51be820bd8eeafa7a90da3c568d20957691cdb56feb5e09c6365840
$ docker network connect --alias db frontend-network2 redis
$ docker run --net=frontend-network2 alpine ping -c1 db
PING db (172.21.0.2): 56 data bytes
64 bytes from 172.21.0.2: seq=0 ttl=64 time=0.091 ms

--- db ping statistics ---
1 packets transmitted, 1 packets received, 0% packet loss
round-trip min/avg/max = 0.091/0.091/0.091 ms
$ docker network ls
NETWORK ID          NAME                DRIVER              SCOPE
b32c1cc67448        backend-network     bridge              local
58b72d78fb6a        bridge              bridge              local
92fa959c5cb8        frontend-network    bridge              local
ddd2ba51b51b        frontend-network2   bridge              local
fa054a9af353        host                host                local
f50397115ef2        none                null                local
$ docker network inspect frontend-network
[
    {
        "Name": "frontend-network",
        "Id": "92fa959c5cb87434df601d71637eeb2885da1990e9b0fbbb055c8b668a95999f",
        "Created": "2021-03-19T11:40:47.437773979Z",
        "Scope": "local",
        "Driver": "bridge",
        "EnableIPv6": false,
```

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    "Id": "92fa959c5cb87434df601d71637eeb2885da1990e9b0fbbb055c8b668a95999f",
    "Created": "2021-03-19T11:40:47.437773979Z",
    "Scope": "local",
    "Driver": "bridge",
    "EnableIPv6": false,
    "IPAM": {
        "Driver": "default",
        "Options": {},
        "Config": [
            {
                "Subnet": "172.20.0.0/16",
                "Gateway": "172.20.0.1"
            }
        ]
    },
    "Internal": false,
    "Attachable": false,
    "Ingress": false,
    "ConfigFrom": {
        "Network": ""
    },
    "ConfigOnly": false,
    "Containers": {
        "17cd12cb54689d81e1b49e649e07eced293da975849a8324ab68472e0e5061f2": {
            "Name": "redis",
            "EndpointID": "e1b9a54ac596d759061e65b2d418b0a0b7a9b1eeac3650f7c32faf81ac2e06b6",
            "MacAddress": "02:42:ac:14:00:02",
            "IPv4Address": "172.20.0.2/16",
            "IPv6Address": ""
        },
        "b881ef1ef0a0593eb705a41f5209a387bf215a5f6a2c5e88717f951168947569": {
            "Name": "serene_nightingale",
            "EndpointID": "ed25272f68c32c5859ed141c864b00f64583401110c5b3bbc45f7b4f6bfedbff",
            "MacAddress": "02:42:ac:14:00:03",
            "IPv4Address": "172.20.0.3/16",
            "IPv6Address": ""
        }
    },
    "Options": {},
    "Labels": {}
    }
]
```
$ docker network disconnect frontend-network redis