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piyushdubey — root@f8b26bc480ff: / — com.docker.cli ▾ docker exec -it c1 bash — 112x34

(base) piyushdubey@Piyush-MacBook-Air ~ % docker network ls
[NETWORK ID      NAME      DRIVER      SCOPE
28a401f008bf    bridge    bridge      local
661609e4060c    host      host       local
c7a1558811fc    none      null       local
(base) piyushdubey@Piyush-MacBook-Air ~ % docker network create -d abc
["docker network create" requires exactly 1 argument.
See 'docker network create --help'.
I
Usage: docker network create [OPTIONS] NETWORK

Create a network
(base) piyushdubey@Piyush-MacBook-Air ~ % docker network create abc
[548d0d08291353fc92a83d0ec659eda78b136f54f22dce94885631a099fb99b3
(base) piyushdubey@Piyush-MacBook-Air ~ % docker network ls
[NETWORK ID      NAME      DRIVER      SCOPE
548d0d082913    abc       bridge      local
28a401f008bf    bridge    bridge      local
661609e4060c    host      host       local
c7a1558811fc    none      null       local
(base) piyushdubey@Piyush-MacBook-Air ~ % docker inspect abc
[[
  {
    "Name": "abc",
    "Id": "548d0d08291353fc92a83d0ec659eda78b136f54f22dce94885631a099fb99b3",
    "Created": "2023-03-06T07:51:26.022Z",
    "Scope": "local",
    "Driver": "bridge",
    "EnableIPv6": false,
    "IPAM": {
      "Driver": "default",
      "Options": {},
      "Config": [
        {
          "Subnet": "172.18.0.0/16"
        }
      ]
    }
  }
]
```

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[  
 {  
   "Name": "abc",  
   "Id": "548d0d08291353fc92a83d0ec659eda78b136f54f22dce94885631a099fb99b3",  
   "Created": "2023-03-06T07:51:26.022583128Z",  
   "Scope": "local",  
   "Driver": "bridge",  
   "EnableIPv6": false,  
   "IPAM": {  
     "Driver": "default",  
     "Options": {},  
     "Config": [  
       {  
         "Subnet": "172.18.0.0/16",  
         "Gateway": "172.18.0.1"  
       }  
     ]  
   },  
   "Internal": false,  
   "Attachable": false,  
   "Ingress": false,  
   "ConfigFrom": {  
     "Network": ""  
   },  
   "ConfigOnly": false,  
   "Containers": {},  
   "Options": {},  
   "Labels": {}  
 }]  
(base) piyushdubey@Piyush-MacBook-Air ~ % docker network connect abc c1  
(base) piyushdubey@Piyush-MacBook-Air ~ % docker network connect abc c2  
(base) piyushdubey@Piyush-MacBook-Air ~ % docker network inspect abc
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      "Driver": "default",
      "Options": {},
      "Config": [
        {
          "Subnet": "172.18.0.0/16",
          "Gateway": "172.18.0.1"
        }
      ]
    },
    "Internal": false,
    "Attachable": false,
    "Ingress": false,
    "ConfigFrom": {
      "Network": ""
    },
    "ConfigOnly": false,
    "Containers": {
      "f8b26bc480ff37c567aa25afafcc8491fc65f8b7b866994fbef02217e712c821": {
        "Name": "c1",
        "EndpointID": "37702ab2d600e219365cd9f60faf02014eed2744239dfd9c00af2fc05e445d",
        "MacAddress": "02:42:ac:12:00:02",
        "IPv4Address": "172.18.0.2/16",
        "IPv6Address": ""
      }
    }
  }
]
```



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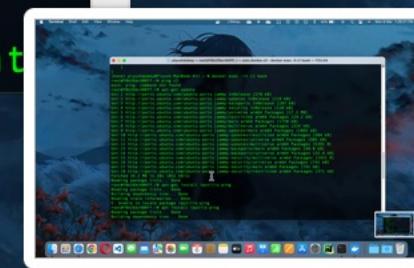
}
]

(base) piyushdubey@Piyush-MacBook-Air ~ % docker exec -it c1 bash
root@f8b26bc480ff:/# ping c2
bash: ping: command not found
root@f8b26bc480ff:/# apt-get update
Get:1 http://ports.ubuntu.com/ubuntu-ports jammy InRelease [270 kB]
Get:2 http://ports.ubuntu.com/ubuntu-ports jammy-updates InRelease [119 kB]
Get:3 http://ports.ubuntu.com/ubuntu-ports jammy-backports InRelease [107 kB]
[Get:4 http://ports.ubuntu.com/ubuntu-ports jammy-security InRelease [110 kB]
[Get:5 http://ports.ubuntu.com/ubuntu-ports jammy/universe arm64 Packages [17.2 MB]
Get:6 http://ports.ubuntu.com/ubuntu-ports jammy/restricted arm64 Packages [24.2 kB]
[Get:7 http://ports.ubuntu.com/ubuntu-ports jammy/main arm64 Packages [1758 kB]
Get:8 http://ports.ubuntu.com/ubuntu-ports jammy/multiverse arm64 Packages [224 kB]
Get:9 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 Packages [1065 kB]
Get:10 http://ports.ubuntu.com/ubuntu-ports jammy-updates/restricted arm64 Packages [384 kB]
Get:11 http://ports.ubuntu.com/ubuntu-ports jammy-updates/universe arm64 Packages [985 kB]
Get:12 http://ports.ubuntu.com/ubuntu-ports jammy-updates/multiverse arm64 Packages [5391 B]
Get:13 http://ports.ubuntu.com/ubuntu-ports jammy-backports/main arm64 Packages [49.0 kB]
Get:14 http://ports.ubuntu.com/ubuntu-ports jammy-backports/universe arm64 Packages [22.4 kB]
Get:15 http://ports.ubuntu.com/ubuntu-ports jammy-security/multiverse arm64 Packages [1421 B]
Get:16 http://ports.ubuntu.com/ubuntu-ports jammy-security/universe arm64 Packages [745 kB]
Get:17 http://ports.ubuntu.com/ubuntu-ports jammy-security/main arm64 Packages [741 kB]
Get:18 http://ports.ubuntu.com/ubuntu-ports jammy-security/restricted arm64 Packages [371 kB]
Fetched 24.2 MB in 28s (852 kB/s)
Reading package lists... Done
root@f8b26bc480ff:/# apt-get install iputilis-ping
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package iputilis-ping
root@f8b26bc480ff:/# apt install iputils-ping
Reading package lists... Done
Building dependency tree... Done
```



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Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libcap2-bin libpam-cap
The following NEW packages will be installed:
  iutils-ping libcap2-bin libpam-cap
0 upgraded, 3 newly installed, 0 to remove and 8 not upgraded.
Need to get 76.8 kB of archives.
After this operation, 255 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://ports.ubuntu.com/ubuntu-ports jammy/main arm64 libcap2-bin arm64 1:2.44-1build3 [25.5 kB]
Get:2 http://ports.ubuntu.com/ubuntu-ports jammy/main arm64 iutils-ping arm64 3:20211215-1 [43.3 kB]
Get:3 http://ports.ubuntu.com/ubuntu-ports jammy/main arm64 libpam-cap arm64 1:2.44-1build3 [7956 B]
[Fetched 76.8 kB in 1s (72.8 kB/s)]
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package libcap2-bin.
(Reading database ... 4389 files and directories currently installed.)
Preparing to unpack .../libcap2-bin_1%3a2.44-1build3_arm64.deb ...
[Unpacking libcap2-bin (1:2.44-1build3) ...
Selecting previously unselected package iutils-ping.
Preparing to unpack .../iutils-ping_3%3a20211215-1_arm64.deb ...
Unpacking iutils-ping (3:20211215-1) ...
Selecting previously unselected package libpam-cap:arm64.
Preparing to unpack .../libpam-cap_1%3a2.44-1build3_arm64.deb ...
Unpacking libpam-cap:arm64 (1:2.44-1build3) ...
Setting up libcap2-bin (1:2.44-1build3) ...
Setting up libpam-cap:arm64 (1:2.44-1build3) ...
debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78.)
debconf: falling back to frontend: Readline
debconf: unable to initialize frontend: Readline
debconf: (Can't locate Term/ReadLine.pm in @INC (you may need to install the Term::ReadLine module) (@INC cont
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Preparing to unpack .../libcap2-bin_1%3a2.44-1build3_arm64.deb ...
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Selecting previously unselected package iutils-ping.
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Unpacking iutils-ping (3:20211215-1) ...
Selecting previously unselected package libpam-cap:arm64.
Preparing to unpack .../libpam-cap_1%3a2.44-1build3_arm64.deb ...
Unpacking libpam-cap:arm64 (1:2.44-1build3) ...
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debconf: unable to initialize frontend: Readline
debconf: (Can't locate Term/ReadLine.pm in @INC (you may need to install the Term::ReadLine module) (@INC contains: /etc/perl /usr/local/lib/aarch64-linux-gnu/perl/5.34.0 /usr/local/share/perl/5.34.0 /usr/lib/aarch64-linux-gnu/perl5/5.34 /usr/share/perl5 /usr/lib/aarch64-linux-gnu/perl-base /usr/lib/aarch64-linux-gnu/perl/5.34 /usr/share/perl/5.34 /usr/local/lib/site_perl) at /usr/share/perl5/Debconf/FrontEnd/Readline.pm line 7.)
debconf: falling back to frontend: Teletype
Setting up iutils-ping (3:20211215-1) ...
root@f8b26bc480ff:/# ping c2
PING c2 (172.18.0.3) 56(84) bytes of data
64 bytes from c2.abc (172.18.0.3): icmp_seq=1 ttl=64 time=0.524 ms
64 bytes from c2.abc (172.18.0.3): icmp_seq=2 ttl=64 time=0.085 ms
64 bytes from c2.abc (172.18.0.3): icmp_seq=3 ttl=64 time=0.065 ms
64 bytes from c2.abc (172.18.0.3): icmp_seq=4 ttl=64 time=0.329 ms
64 bytes from c2.abc (172.18.0.3): icmp_seq=5 ttl=64 time=0.200 ms
^C
--- c2 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4087ms
rtt min/avg/max/mdev = 0.065/0.240/0.524/0.170 ms
root@f8b26bc480ff:/#
```

