Docker-compose.yml:


```
version: "3.8"              #docker-compose version
services:                   #containers
  ubuntu1:                  #service name, this is also DNS name inside network
    container_name: c1      #container name
    image: ubuntu           #container image
    tty: true               #allow user terminal
    networks:               #assigned network
      AmirNetwork:
        ipv4_address: 192.168.0.2
  ubuntu2:
    container_name: c2
    image: ubuntu
    tty: true
    networks:
      AmirNetwork:
        ipv4_address: 192.168.0.3
networks:                   #docker network create
  AmirNetwork:
    driver: bridge          #network type
    ipam:
      driver: default
      config:
        - subnet: 192.168.0.1/24  #network subnet
~
"docker-compose.yml" 24L, 730C                          24,0-1        All
```

Creating the containers, open c1 and installing iputils-ping


```
[root@centosb ~]# docker compose up -d
[+] Running 2/2
 ✔ Container c1  Started                                                 1.0s
 ✔ Container c2  Started                                                 1.0s
[root@centosb ~]# docker exec -it c1 bash
root@57bb4a716da4:/# apt-get update && apt-get install -y iputils-ping
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
Get:3 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [914 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [907 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [108 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy/main amd64 Packages [1792 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [908 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [23.2 kB]
Get:10 http://archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [164 kB]
Get:11 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [266 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [17.5 MB]
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1148 kB]
Get:14 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [962 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1251 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [28.6 kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [49.0 kB]
Get:18 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [23.3 kB]
Fetched 26.5 MB in 18s (1470 kB/s)
Reading package lists ... Done
```

Ping C2:


```
root@57bb4a716da4:/# ping c2
PING c2 (192.168.0.3) 56(84) bytes of data.
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=1 ttl=64 time=0.985 ms
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=2 ttl=64 time=0.068 ms
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=3 ttl=64 time=0.084 ms
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=4 ttl=64 time=0.105 ms
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=5 ttl=64 time=0.067 ms
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=6 ttl=64 time=0.066 ms
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=7 ttl=64 time=0.074 ms
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=8 ttl=64 time=0.079 ms
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=9 ttl=64 time=0.077 ms
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=10 ttl=64 time=0.103 ms
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=11 ttl=64 time=0.072 ms
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=12 ttl=64 time=0.082 ms
64 bytes from c2.root_AmirNetwork (192.168.0.3): icmp_seq=13 ttl=64 time=0.105 ms
^C
--- c2 ping statistics ---
13 packets transmitted, 13 received, 0% packet loss, time 12008ms
rtt min/avg/max/mdev = 0.066/0.151/0.985/0.241 ms
root@57bb4a716da4:/#
```