Networks in Docker:

```
property from constant pull access denied for highly, repository does not exist of may require 'docket roighn': denied: requested access to the resource is denied sign of featual tag: latest access to the resource is denied for the property of the proper
```

I created two containers in the default Docker network and used the docker inspect command to find their IP addresses.

I accessed one of the containers using the docker exec command and attempted to perform a ping test using the IP address of the other container, but the ping command was not found, so I

installed the iputils-ping package to enable ping functionality

```
Setting up iputils-ping (3:20221126-1+deb1<u>2u1)</u>
root@fc4321acac4c:/# ping 172.17.0.3
PING 172.17.0.3 (172.17.0.3) 56(84) bytes of data.
64 bytes from 172.17.0.3: icmp seq=1 ttl=64 time=0.042 ms
64 bytes from 172.17.0.3: icmp seq=2 ttl=64 time=0.038 ms
64 bytes from 172.17.0.3: icmp_seq=3 ttl=64 time=0.038 ms
64 bytes from 172.17.0.3: icmp seq=4 ttl=64 time=0.048 ms
64 bytes from 172.17.0.3: icmp seq=5 ttl=64 time=0.039 ms
64 bytes from 172.17.0.3: icmp seq=6 ttl=64 time=0.039 ms
64 bytes from 172.17.0.3: icmp seq=7 ttl=64 time=0.038 ms
64 bytes from 172.17.0.3: icmp_seq=8 ttl=64 time=0.036 ms
64 bytes from 172.17.0.3: icmp seq=9 ttl=64 time=0.038 ms
^C
--- 172.17.0.3 ping statistics ---
9 packets transmitted, 9 received, 0% packet loss, time 8205ms
rtt min/avg/max/mdev = 0.036/0.039/0.048/0.003 ms
root@fc4321acac4c:/# ping docker con2_
ping: docker con2: Name or service not known
root@fc4321acac4c:/# exit
exit
```

While performing a ping test using the container name, I encountered an error because, by default, containers on the same default bridge network cannot resolve each other's names; to overcome this issue, I created a custom bridge network."

This correction clarifies that the issue arises from the default bridge network's limitations regarding container name resolution, and creating a custom bridge network resolves this issue.

```
Setting up iputils-ping (3:20221126-1+deb12u1) ...

root@2d8d80b80clf:/# ping con1

PING con1 (182.12.0.2) 56(84) bytes of data.

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=1 ttl=64 time=0.045 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=2 ttl=64 time=0.043 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=3 ttl=64 time=0.044 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=4 ttl=64 time=0.050 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=5 ttl=64 time=0.044 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=6 ttl=64 time=0.044 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=7 ttl=64 time=0.044 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=8 ttl=64 time=0.044 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=9 ttl=64 time=0.041 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=9 ttl=64 time=0.045 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=11 ttl=64 time=0.044 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=12 ttl=64 time=0.045 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=12 ttl=64 time=0.045 ms

64 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=13 ttl=64 time=0.045 ms

65 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=13 ttl=64 time=0.045 ms

66 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=13 ttl=64 time=0.045 ms

67 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=13 ttl=64 time=0.045 ms

68 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=13 ttl=64 time=0.045 ms

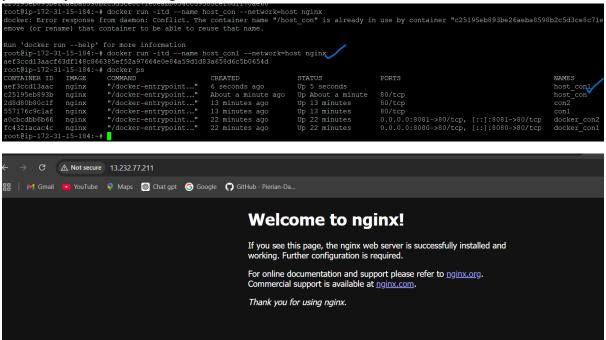
69 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=13 ttl=64 time=0.045 ms

60 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=13 ttl=64 time=0.045 ms

60 bytes from con1.custom_bridge_network (182.12.0.2): icmp_seq=13 ttl=64 time=0.045 ms
```

"I created a custom bridge network and launched two containers connected to this network; then, I accessed one container and successfully performed a ping test to the other container using its container name."

This correction highlights the success of the ping test between containers using their names, made possible by the custom bridge network.



I created a container using the host network mode without explicit port mapping, and yet, I was still able to access the container from outside the host machine.