

```
nirmala@ASUSVivobook:~$ sudo ip netns add host1
[sudo] password for nirmala:
nirmala@ASUSVivobook:~$ sudo ip netns add host1
Cannot create namespace file "/run/netns/host1": File exists
nirmala@ASUSVivobook:~$ sudo ip netns add host2
nirmala@ASUSVivobook:~$ sudo ip netns add host3
nirmala@ASUSVivobook:~$ sudo ip netns exec host1 ip link set lo up
nirmala@ASUSVivobook:~$ sudo ip netns exec host2 ip link set lo up
nirmala@ASUSVivobook:~$ sudo ip netns exec host3 ip link set lo up
nirmala@ASUSVivobook:~$ sudo ip link add br0 type bridge
nirmala@ASUSVivobook:~$ sudo ip link set br0 up
nirmala@ASUSVivobook:~$ sudo ip link add veth1 type veth peer name veth1h
nirmala@ASUSVivobook:~$ sudo ip link set veth1h netns host1
nirmala@ASUSVivobook:~$ sudo ip link set veth1 master br0
nirmala@ASUSVivobook:~$ sudo ip link set veth1 up
nirmala@ASUSVivobook:~$ sudo ip netns exec host1 ip link set veth1h up
nirmala@ASUSVivobook:~$ sudo ip link add veth2 type veth peer name veth2h
nirmala@ASUSVivobook:~$ sudo ip link set veth2 netns host2
nirmala@ASUSVivobook:~$ sudo ip link set veth2 master br0
nirmala@ASUSVivobook:~$ sudo ip link set veth2 up
nirmala@ASUSVivobook:~$ sudo ip netns exec host2 ip link set veth2h up
nirmala@ASUSVivobook:~$ sudo ip link add veth3 type veth peer name veth3h
nirmala@ASUSVivobook:~$ sudo ip link set veth3 netns host3
nirmala@ASUSVivobook:~$ sudo ip link set veth3 master br0
nirmala@ASUSVivobook:~$ sudo ip link set veth3 up
nirmala@ASUSVivobook:~$ sudo ip netns exec host3 ip link set veth3h up
nirmala@ASUSVivobook:~$ sudo ip netns exec host1 ip addr add 192.168.10.11/24 dev veth1h
nirmala@ASUSVivobook:~$ sudo ip netns exec host2 ip addr add 192.168.10.12/24 dev veth2h
nirmala@ASUSVivobook:~$ sudo ip netns exec host3 ip addr add 192.168.10.13/24 dev veth3h
nirmala@ASUSVivobook:~$ sudo ip netns exec host1 ping -c 3 192.168.10.12
PING 192.168.10.12 (192.168.10.12) 56(84) bytes of data.
```

```
nirmala@ASUSVivobook:~$ sudo ip netns exec host3 ip addr add 192.168.10.13/24 dev veth3h
nirmala@ASUSVivobook:~$ sudo ip netns exec host1 ping -c 3 192.168.10.12
PING 192.168.10.12 (192.168.10.12) 56(84) bytes of data.
64 bytes from 192.168.10.12: icmp_seq=1 ttl=64 time=1.29 ms
64 bytes from 192.168.10.12: icmp_seq=2 ttl=64 time=0.085 ms
64 bytes from 192.168.10.12: icmp_seq=3 ttl=64 time=0.095 ms

--- 192.168.10.12 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2158ms
rtt min/avg/max/mdev = 0.085/0.488/1.286/0.563 ms
nirmala@ASUSVivobook:~$ sudo ip netns exec host2 ping -c 3 192.168.10.13
PING 192.168.10.13 (192.168.10.13) 56(84) bytes of data.
64 bytes from 192.168.10.13: icmp_seq=1 ttl=64 time=0.140 ms
64 bytes from 192.168.10.13: icmp_seq=2 ttl=64 time=0.072 ms
64 bytes from 192.168.10.13: icmp_seq=3 ttl=64 time=0.077 ms

--- 192.168.10.13 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2055ms
rtt min/avg/max/mdev = 0.072/0.096/0.140/0.030 ms
```

```
Dec 17 14:32: nirmala@ASUSVivobook:~  
nirmala@ASUSVivobook:~$ ip netns exec host1 ip neigh  
192.168.10.12 br0: b6:9b:3c:bc:42:2a STALE  
nirmala@ASUSVivobook:~$ sudo tcpdump -i br0 -n  
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode  
listening on br0, link-type EN10MB (Ethernet), snapshot length 262144 bytes  
14:27:57.592286 IP 192.168.10.11 > 192.168.10.12: ICMP echo request, id 18912, seq 1, length 64  
14:27:58.611409 IP 192.168.10.11 > 192.168.10.12: ICMP echo request, id 18912, seq 2, length 64  
14:27:59.638333 IP 192.168.10.11 > 192.168.10.12: ICMP echo request, id 18912, seq 3, length 64  
14:28:02.835069 ARP, Request who-has 192.168.10.12 tell 192.168.10.11, length 28  
14:28:03.853123 ARP, Request who-has 192.168.10.12 tell 192.168.10.11, length 28  
14:28:04.888178 ARP, Request who-has 192.168.10.12 tell 192.168.10.11, length 28  
14:28:42.898414 IP6 fe80::b49b:3cff:febc:422a > ff02::16: HBH ICMP6, multicast listener report v2, 1 group record(s), length 28  
14:28:43.724544 IP6 fe80::b49b:3cff:febc:422a > ff02::16: HBH ICMP6, multicast listener report v2, 1 group record(s), length 28  
14:28:49.413818 ARP, Request who-has 192.168.10.12 tell 192.168.10.11, length 28  
14:28:49.413992 ARP, Reply 192.168.10.12 is-at b6:9b:3c:bc:42:2a, length 28  
14:28:49.413998 IP 192.168.10.11 > 192.168.10.12: ICMP echo request, id 18925, seq 1, length 64  
14:28:49.414070 IP 192.168.10.12 > 192.168.10.11: ICMP echo reply, id 18925, seq 1, length 64  
14:28:50.427862 IP 192.168.10.11 > 192.168.10.12: ICMP echo request, id 18925, seq 2, length 64  
14:28:50.427914 IP 192.168.10.12 > 192.168.10.11: ICMP echo reply, id 18925, seq 2, length 64  
14:28:51.469914 IP 192.168.10.11 > 192.168.10.12: ICMP echo request, id 18925, seq 3, length 64  
14:28:51.469978 IP 192.168.10.12 > 192.168.10.11: ICMP echo reply, id 18925, seq 3, length 64  
14:28:54.548405 ARP, Request who-has 192.168.10.11 tell 192.168.10.12, length 28  
14:28:54.548429 ARP, Reply 192.168.10.11 is-at 72:db:ad:e9:7a:ac, length 28  
^C  
18 packets captured  
18 packets received by filter  
0 packets dropped by kernel  
nirmala@ASUSVivobook:~$
```

```
Dec 17 14:33: nirmala@ASUSVivobook:~  
nirmala@ASUSVivobook:~$ sudo ip link set veth2 down  
[sudo] password for nirmala:  
nirmala@ASUSVivobook:~$ sudo ip link set veth2 down  
nirmala@ASUSVivobook:~$ sudo ip netns exec host1 ping -c 3 192.168.10.12  
PING 192.168.10.12 (192.168.10.12) 56(84) bytes of data.  
--- 192.168.10.12 ping statistics ---  
3 packets transmitted, 0 received, 100% packet loss, time 2038ms  
nirmala@ASUSVivobook:~$ sudo ip link set veth2 up  
nirmala@ASUSVivobook:~$ sudo ip netns exec host1 ping -c 3 192.168.10.12  
PING 192.168.10.12 (192.168.10.12) 56(84) bytes of data.  
64 bytes from 192.168.10.12: icmp_seq=1 ttl=64 time=1.82 ms  
64 bytes from 192.168.10.12: icmp_seq=2 ttl=64 time=0.103 ms  
64 bytes from 192.168.10.12: icmp_seq=3 ttl=64 time=0.124 ms  
--- 192.168.10.12 ping statistics ---  
3 packets transmitted, 3 received, 0% packet loss, time 2056ms  
rtt min/avg/max/mdev = 0.103/0.681/1.816/0.802 ms
```

```
nirmala@ASUSVivobook:~$ sudo ip netns add router
[sudo] password for nirmala:
nirmala@ASUSVivobook:~$ sudo ip netns exec router ip link set lo up
nirmala@ASUSVivobook:~$ sudo ip netns exec router ip link set lo up
nirmala@ASUSVivobook:~$ sudo ip link add vethr-br type veth peer name vethr
nirmala@ASUSVivobook:~$ sudo ip link set vethr netns router
nirmala@ASUSVivobook:~$ sudo ip link set vethr-br master br0
nirmala@ASUSVivobook:~$ sudo ip link set vethr-br up
nirmala@ASUSVivobook:~$ sudo ip netns exec router ip link set vethr up
nirmala@ASUSVivobook:~$ sudo ip netns exec router ip addr add 192.168.10.1/24 dev vethr
nirmala@ASUSVivobook:~$ sudo ip link add veth-wan type veth peer name veth-wanh
nirmala@ASUSVivobook:~$ sudo ip link set veth-wanh netns router
nirmala@ASUSVivobook:~$ sudo ip link set veth-wanh netns wan
nirmala@ASUSVivobook:~$ sudo ip netns exec router ip link set veth-wanh up
nirmala@ASUSVivobook:~$ sudo ip netns exec wan ip link set veth-wanh up
nirmala@ASUSVivobook:~$ sudo ip netns exec router ip addr add 203.0.113.1/24 dev veth-wan
nirmala@ASUSVivobook:~$ sudo ip netns exec wan ip addr add 203.0.113.2/24 dev veth-wanh
nirmala@ASUSVivobook:~$ sudo ip netns exec host1 ip route add default via 192.168.10.1
nirmala@ASUSVivobook:~$ sudo ip netns exec host2 ip route add default via 192.168.10.1
nirmala@ASUSVivobook:~$ sudo ip netns exec host3 ip route add default via 192.168.10.1
nirmala@ASUSVivobook:~$ sudo ip netns exec wan ip route add default via 203.0.113.1
nirmala@ASUSVivobook:~$ sudo ip netns exec router sysctl -w net.ipv4.ip_forward=1
net.ipv4.ip_forward = 1
nirmala@ASUSVivobook:~$ sudo ip netns exec router iptables -t nat -A POSTROUTING -o veth-wan -j MASQUERADE
nirmala@ASUSVivobook:~$ sudo ip netns exec host1 ping -c 3 203.0.113.2
PING 203.0.113.2 (203.0.113.2) 56(84) bytes of data.
64 bytes from 203.0.113.2: icmp_seq=1 ttl=63 time=0.572 ms
64 bytes from 203.0.113.2: icmp_seq=2 ttl=63 time=0.163 ms
64 bytes from 203.0.113.2: icmp_seq=3 ttl=63 time=0.216 ms
```

```
nirmala@ASUSVivobook:~$ sudo ip netns exec router iptables -t nat -A PREROUTING -i veth-wan -j DNAT
nirmala@ASUSVivobook:~$ sudo ip netns exec host1 ping -c 3 203.0.113.2
PING 203.0.113.2 (203.0.113.2) 56(84) bytes of data.
64 bytes from 203.0.113.2: icmp_seq=1 ttl=63 time=0.572 ms
64 bytes from 203.0.113.2: icmp_seq=2 ttl=63 time=0.163 ms
64 bytes from 203.0.113.2: icmp_seq=3 ttl=63 time=0.216 ms

--- 203.0.113.2 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2086ms
rtt min/avg/max/mdev = 0.163/0.317/0.572/0.181 ms
```

```
nirmala@ASUSVivobook:~$ sudo iptables -t nat -L
Chain PREROUTING (policy ACCEPT)
target    prot opt source          destination
DOCKER    all  --  anywhere        anywhere      ADDRTYPE match dst-type LOCAL

Chain INPUT (policy ACCEPT)
target    prot opt source          destination

Chain OUTPUT (policy ACCEPT)
target    prot opt source          destination
DOCKER    all  --  anywhere        !localhost/8      ADDRTYPE match dst-type LOCAL

Chain POSTROUTING (policy ACCEPT)
target    prot opt source          destination
MASQUERADE all  --  172.17.0.0/16    anywhere

Chain DOCKER (2 references)
target    prot opt source          destination
RETURN   all  --  anywhere        anywhere
nirmala@ASUSVivobook:~$ sudo ip netns exec router iptables -t nat -A PREROUTING -i veth-wan -p tcp --dport 8080 | -j DNAT
T-to-destination 192.168.10.12:8080
```

```
nirmala@ASUSVivobook: $ sudo iptables -t net -L -v -n --line-number
Chain PREROUTING (policy ACCEPT 5 packets, 5140 bytes)
num  pkts bytes target  prot opt in     out    source               destination
1      5  5140  DOCKER   0  -- *      *       0.0.0.0/0            0.0.0.0/0           ADDRTYPE match dst-type LO
CAL

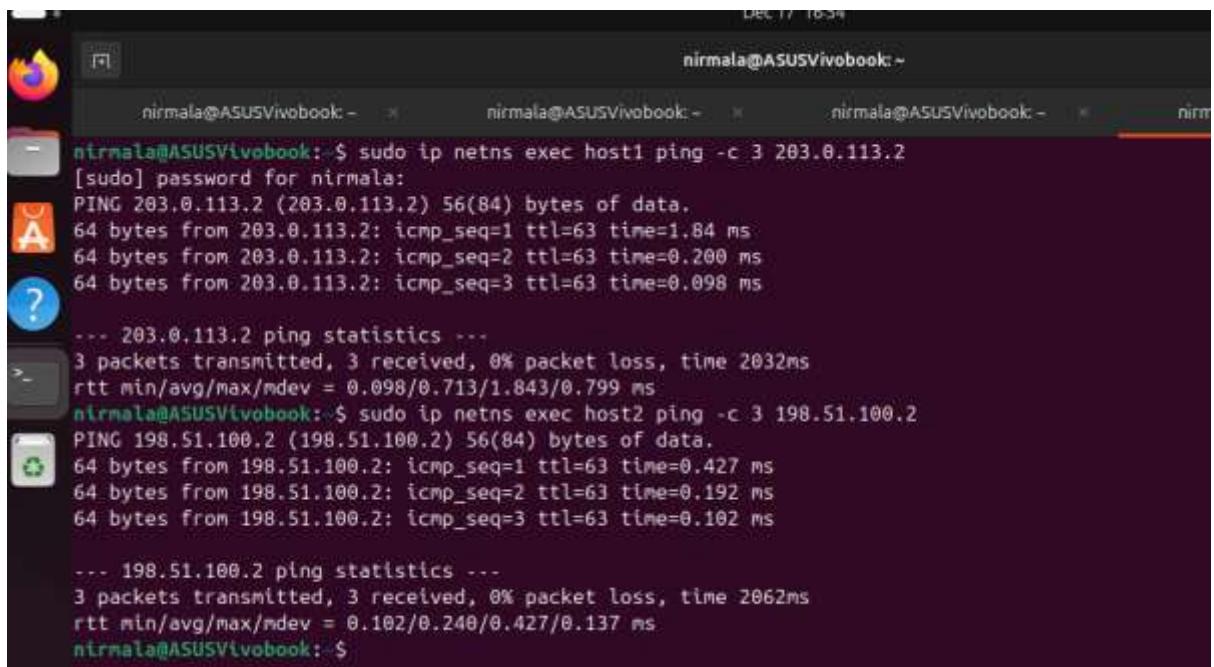
Chain INPUT (policy ACCEPT 0 packets, 0 bytes)
num  pkts bytes target  prot opt in     out    source               destination

Chain OUTPUT (policy ACCEPT 4572 packets, 367K bytes)
num  pkts bytes target  prot opt in     out    source               destination
1      0  0  DOCKER   0  -- *      *       0.0.0.0/0            !127.0.0.0/8          ADDRTYPE match dst-type LO
CAL

Chain POSTROUTING (policy ACCEPT 4572 packets, 367K bytes)
num  pkts bytes target  prot opt in     out    source               destination
1      0  0  MASQUERADE 0  -- *      docker0  172.17.0.0/16      0.0.0.0/0

Chain DOCKER (2 references)
num  pkts bytes target  prot opt in     out    source               destination
1      0  0  RETURN   0  -- docker0 *      0.0.0.0/0            0.0.0.0/0
nirmala@ASUSVivobook: $
```

```
nirmala@ASUSVivobook: $ sudo ip netns exec router ip route show table 100
default via 203.0.113.2 dev veth-wan
nirmala@ASUSVivobook: $ sudo ip netns exec router ip route show table 200
default via 198.51.100.2 dev veth-wan2
nirmala@ASUSVivobook: $ sudo ip netns exec router tcpdump -i veth-wan -n
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on veth-wan, link-type EN10MB (Ethernet), snapshot length 262144 bytes
```



The screenshot shows a terminal window with four tabs open. The active tab displays a ping session between two hosts:

```
nirmala@ASUSVivobook: ~
nirmala@ASUSVivobook: ~
nirmala@ASUSVivobook: ~
nirmala@ASUSVivobook: ~
```

Host 1 (203.0.113.2) ping statistics:

```
PING 203.0.113.2 (203.0.113.2) 56(84) bytes of data.
64 bytes from 203.0.113.2: icmp_seq=1 ttl=63 time=1.84 ms
64 bytes from 203.0.113.2: icmp_seq=2 ttl=63 time=0.200 ms
64 bytes from 203.0.113.2: icmp_seq=3 ttl=63 time=0.098 ms

--- 203.0.113.2 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2032ms
rtt min/avg/max/mdev = 0.098/0.713/1.843/0.799 ms
```

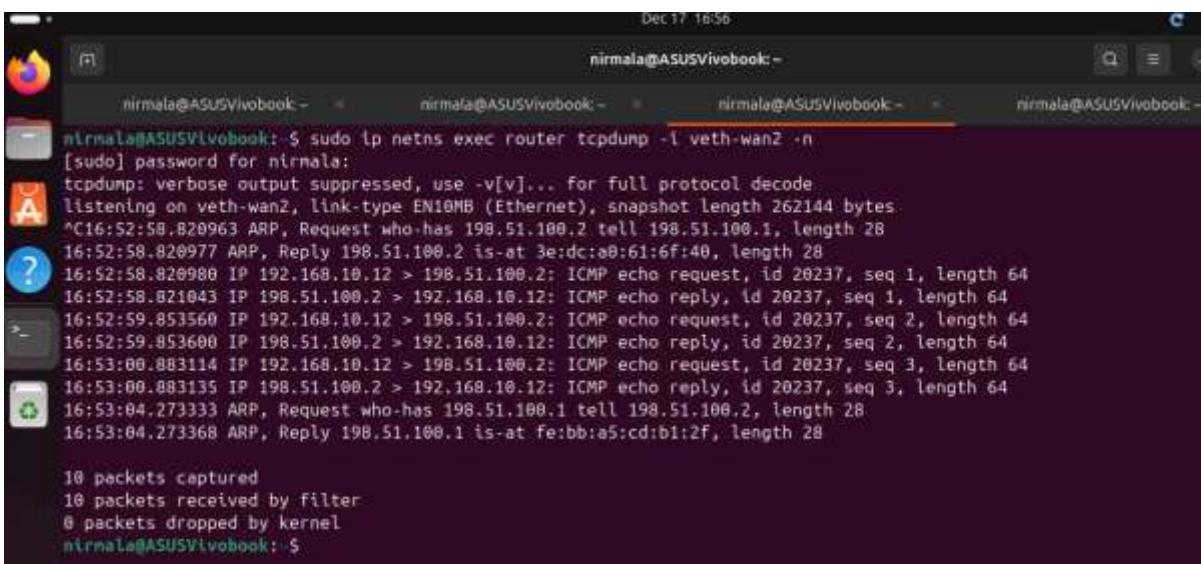
Host 2 (198.51.100.2) ping statistics:

```
nirmala@ASUSVivobook: ~
PING 198.51.100.2 (198.51.100.2) 56(84) bytes of data.
64 bytes from 198.51.100.2: icmp_seq=1 ttl=63 time=0.427 ms
64 bytes from 198.51.100.2: icmp_seq=2 ttl=63 time=0.192 ms
64 bytes from 198.51.100.2: icmp_seq=3 ttl=63 time=0.102 ms

--- 198.51.100.2 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2062ms
rtt min/avg/max/mdev = 0.102/0.240/0.427/0.137 ms
```

```
nirmala@ASUSVivobook: $ sudo ip netns exec router ip route show table 100
default via 203.0.113.2 dev veth-wan
nirmala@ASUSVivobook: $ sudo ip netns exec router ip route show table 200
default via 198.51.100.2 dev veth-wan2
nirmala@ASUSVivobook: $ sudo ip netns exec router tcpdump -i veth-wan -n
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on veth-wan, link-type EN10MB (Ethernet), snapshot length 262144 bytes
^C16:52:10.284158 IP 203.0.113.1 > 203.0.113.2: ICMP echo request, id 20230, seq 1, length 64
16:52:10.284613 IP 203.0.113.2 > 203.0.113.1: ICMP echo reply, id 20230, seq 1, length 64
16:52:11.287114 IP 203.0.113.1 > 203.0.113.2: ICMP echo request, id 20230, seq 2, length 64
16:52:11.287154 IP 203.0.113.2 > 203.0.113.1: ICMP echo reply, id 20230, seq 2, length 64
16:52:12.316200 IP 203.0.113.1 > 203.0.113.2: ICMP echo request, id 20230, seq 3, length 64
16:52:12.316220 IP 203.0.113.2 > 203.0.113.1: ICMP echo reply, id 20230, seq 3, length 64
16:52:15.631435 ARP, Request who-has 203.0.113.2 tell 203.0.113.1, length 28
16:52:15.631590 ARP, Request who-has 203.0.113.1 tell 203.0.113.2, length 28
16:52:15.631616 ARP, Reply 203.0.113.1 is-at 32:fc:fb:a9:e7:be, length 28
16:52:15.631639 ARP, Reply 203.0.113.2 is-at 1a:c4:cc:49:12:aa, length 28

10 packets captured
10 packets received by filter
0 packets dropped by kernel
nirmala@ASUSVivobook: $
```



```
Dec 17 16:56
nirmala@ASUSVivobook: ~ nirmala@ASUSVivobook: ~ nirmala@ASUSVivobook: ~ nirmala@ASUSVivobook: ~
nirmala@ASUSVivobook: $ sudo ip netns exec router tcpdump -i veth-wan2 -n
[sudo] password for nirmala:
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on veth-wan2, link-type EN10MB (Ethernet), snapshot length 262144 bytes
^C16:52:58.820963 ARP, Request who-has 198.51.100.2 tell 198.51.100.1, length 28
16:52:58.820977 ARP, Reply 198.51.100.2 is-at 3e:dc:a0:61:6f:40, length 28
16:52:58.820988 IP 192.168.10.12 > 198.51.100.2: ICMP echo request, id 20237, seq 1, length 64
16:52:58.821043 IP 198.51.100.2 > 192.168.10.12: ICMP echo reply, id 20237, seq 1, length 64
16:52:59.853560 IP 192.168.10.12 > 198.51.100.2: ICMP echo request, id 20237, seq 2, length 64
16:52:59.853600 IP 198.51.100.2 > 192.168.10.12: ICMP echo reply, id 20237, seq 2, length 64
16:53:00.883114 IP 192.168.10.12 > 198.51.100.2: ICMP echo request, id 20237, seq 3, length 64
16:53:00.883135 IP 198.51.100.2 > 192.168.10.12: ICMP echo reply, id 20237, seq 3, length 64
16:53:04.273333 ARP, Request who-has 198.51.100.1 tell 198.51.100.2, length 28
16:53:04.273368 ARP, Reply 198.51.100.1 is-at fe:bb:a5:cd:b1:2f, length 28

10 packets captured
10 packets received by filter
0 packets dropped by kernel
nirmala@ASUSVivobook: $
```

```

nirmala@ASUSVivobook:~$ sudo ip netns add hostA
nirmala@ASUSVivobook:~$ sudo ip netns add hostB
nirmala@ASUSVivobook:~$ sudo ip netns exec siteB ip link set lo up
nirmala@ASUSVivobook:~$ sudo ip netns exec siteA ip link set lo up
nirmala@ASUSVivobook:~$ sudo ip netns exec hostA ip link set lo up
nirmala@ASUSVivobook:~$ sudo ip netns exec hostB ip link set lo up
nirmala@ASUSVivobook:~$ sudo ip netns exec siteA ip link add brA type bridge
nirmala@ASUSVivobook:~$ sudo ip netns exec siteB ip link add brB type bridge
nirmala@ASUSVivobook:~$ sudo ip netns exec siteA ip link set brA up
nirmala@ASUSVivobook:~$ sudo ip netns exec siteB ip link set brB up
nirmala@ASUSVivobook:~$ sudo ip link add veth-hostA type veth peer name veth-siteA
nirmala@ASUSVivobook:~$ sudo ip link set veth-hostA netns hostA
nirmala@ASUSVivobook:~$ sudo ip link set veth-siteA netns siteA
nirmala@ASUSVivobook:~$ sudo ip netns exec siteA ip link set veth-siteA master brA
nirmala@ASUSVivobook:~$ sudo ip netns exec siteA ip link set veth-siteA up
nirmala@ASUSVivobook:~$ sudo ip netns exec hostA ip link set veth-hostA up
nirmala@ASUSVivobook:~$ 
nirmala@ASUSVivobook:~$ sudo ip link add veth-hostB type veth peer name veth-siteB
nirmala@ASUSVivobook:~$ sudo ip link set veth-hostB netns hostB
nirmala@ASUSVivobook:~$ sudo ip link set veth-siteB netns siteB
Error: either "dev" is duplicate, or "nents" is a garbage.
nirmala@ASUSVivobook:~$ sudo ip link set veth-siteB netns siteB
nirmala@ASUSVivobook:~$ sudo ip netns exec siteB ip link set veth-siteB master brB
nirmala@ASUSVivobook:~$ sudo ip netns exec siteB ip link set veth-siteB up
nirmala@ASUSVivobook:~$ sudo ip netns exec hostB ip link set veth-hostB up
nirmala@ASUSVivobook:~$ 
nirmala@ASUSVivobook:~$ sudo ip link add veth-underA type veth peer name veth-underB
nirmala@ASUSVivobook:~$ sudo ip link set veth-underA netns siteA
nirmala@ASUSVivobook:~$ sudo ip netns exec siteA ip link set veth-siteA master brA

```

```

nirmala@ASUSVivobook:~$ sudo ip netns exec siteB ip link set veth-siteB master brB
nirmala@ASUSVivobook:~$ sudo ip netns exec siteB ip link set veth-siteB up
nirmala@ASUSVivobook:~$ sudo ip netns exec hostB ip link set veth-hostB up
nirmala@ASUSVivobook:~$ 
nirmala@ASUSVivobook:~$ sudo ip link add veth-underA type veth peer name veth-underB
nirmala@ASUSVivobook:~$ sudo ip link set veth-underA netns siteA
nirmala@ASUSVivobook:~$ sudo ip netns exec siteA ip link set veth-siteA master brA
nirmala@ASUSVivobook:~$ sudo ip netns exec siteA ip link set veth-siteA up
nirmala@ASUSVivobook:~$ sudo ip netns exec hostA ip link set veth-hostA up
nirmala@ASUSVivobook:~$ 
nirmala@ASUSVivobook:~$ sudo ip link add veth-hostB type veth peer name veth-siteB
nirmala@ASUSVivobook:~$ sudo ip link set veth-hostB netns hostB
RTNETLINK answers: File exists
nirmala@ASUSVivobook:~$ sudo ip link set veth-siteB netns siteB
RTNETLINK answers: File exists
nirmala@ASUSVivobook:~$ sudo ip link set veth-underB netns siteB
nirmala@ASUSVivobook:~$ sudo ip netns exec siteA ip addr add 10.100.0.1/30 dev veth-underA
nirmala@ASUSVivobook:~$ sudo ip netns exec siteB ip addr add 10.100.0.2/30 dev veth-underB
nirmala@ASUSVivobook:~$ sudo ip netns exec siteA ip link set veth-underA up
nirmala@ASUSVivobook:~$ sudo ip netns exec siteB ip link set veth-underB up
nirmala@ASUSVivobook:~$ sudo ip netns exec siteA ping -c 3 10.100.0.2
PING 10.100.0.2 (10.100.0.2) 56(84) bytes of data.
64 bytes from 10.100.0.2: icmp_seq=1 ttl=64 time=4.55 ms
64 bytes from 10.100.0.2: icmp_seq=2 ttl=64 time=0.081 ms
64 bytes from 10.100.0.2: icmp_seq=3 ttl=64 time=0.097 ms

--- 10.100.0.2 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2063ms
rtt min/avg/max/mdev = 0.081/1.575/4.548/2.102 ms

```

```
nirmala@ASUSVivobook: $ sudo ip netns exec siteA ip link add vxlanA type vxlan id 42 dev veth-underA remote 10.100.0.2 d  
stport 4789  
nirmala@ASUSVivobook: $ sudo ip netns exec siteA ip link set vxlanA up  
nirmala@ASUSVivobook: $ sudo ip netns exec siteA ip link set vxlanA master brA  
nirmala@ASUSVivobook: $ sudo ip netns exec siteB ip link add vxlanB type vxlan id 42 dev veth-underB remote 10.100.0.1 ds  
tport 4789  
Cannot find device "veth-underB"  
nirmala@ASUSVivobook: $ sudo ip netns exec siteB ip link add vxlanB type vxlan id 42 dev veth-underB remote 10.100.0.1 d  
stport 4789  
nirmala@ASUSVivobook: $ sudo ip netns exec siteB ip link set vxlanB up  
nirmala@ASUSVivobook: $ sudo ip netns exec siteB ip link set vxlanB master brB  
Object "link" is unknown, try "ip help".  
nirmala@ASUSVivobook: $ sudo ip netns exec siteB ip link set vxlanB master brB  
nirmala@ASUSVivobook: $ sudo ip netns exec hostA ip addr add 10.200.0.1/24 dev veth-hostA  
nirmala@ASUSVivobook: $ sudo ip netns exec hostB ip addr add 10.200.0.2/24 dev veth-hostB  
nirmala@ASUSVivobook: $ sudo ip netns exec hostA ping -c 4 10.200.0.2  
PING 10.200.0.2 (10.200.0.2) 56(84) bytes of data.  
64 bytes from 10.200.0.2: icmp_seq=1 ttl=64 time=5.73 ms  
64 bytes from 10.200.0.2: icmp_seq=2 ttl=64 time=0.138 ms  
64 bytes from 10.200.0.2: icmp_seq=3 ttl=64 time=0.128 ms  
64 bytes from 10.200.0.2: icmp_seq=4 ttl=64 time=0.128 ms  
  
--- 10.200.0.2 ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 3128ms  
rtt min/avg/max/mdev = 0.128/1.530/5.728/2.423 ms  
nirmala@ASUSVivobook: $
```