

System 1

File Machine View Input Devices Help

```
[root@localhost ~]# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.225.203 netmask 255.255.255.0 broadcast 192.168.225.255
    inet6 2409:4063:4e03:20ba:cbf6:a5ee:fa5f:3fad prefixlen 64 scopeid 0x0<global>
    inet6 fe80::cec0:e40c:8e1b:e305 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:59:22:62 txqueuelen 1000 (Ethernet)
    RX packets 37 bytes 3899 (3.8 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 42 bytes 4122 (4.0 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
[root@localhost ~]# ifconfig enp0s3 192.168.225.1/24
```

```
[root@localhost ~]# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.225.1 netmask 255.255.255.0 broadcast 192.168.225.255
    inet6 2409:4063:4e03:20ba:cbf6:a5ee:fa5f:3fad prefixlen 64 scopeid 0x0<global>
    inet6 fe80::cec0:e40c:8e1b:e305 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:59:22:62 txqueuelen 1000 (Ethernet)
    RX packets 41 bytes 4283 (4.1 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 45 bytes 4446 (4.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
[root@localhost ~]# route add -net 192.168.225.0/30 enp0s3
```

```
[root@localhost ~]# route -n
```

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
192.168.225.0	0.0.0.0	255.255.255.252	U	0	0	0	enp0s3

```
[root@localhost ~]#
```

System 2

File Machine View Input Devices Help

```

ether 08:00:27:89:d6:5d txqueuelen 1000 (Ethernet)
RX packets 87 bytes 9524 (9.3 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 60 bytes 5698 (5.5 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@localhost ~]# ifconfig enp0s3 192.168.225.2/24
[root@localhost ~]# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.225.2 netmask 255.255.255.0 broadcast 192.168.225.255
    inet6 fe80::5125:80ec:5792:1a22 prefixlen 64 scopeid 0x20<link>
    inet6 2409:4063:4e03:20ba:2b14:b92f:c9bc:aab0 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::cec0:e40c:8e1b:e305 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:89:d6:5d txqueuelen 1000 (Ethernet)
    RX packets 94 bytes 10220 (9.9 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 64 bytes 6108 (5.9 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@localhost ~]# route add -net 192.168.225.0/31 enp0s3
[root@localhost ~]# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.225.2 netmask 255.255.255.0 broadcast 192.168.225.255
    inet6 fe80::5125:80ec:5792:1a22 prefixlen 64 scopeid 0x20<link>
    inet6 2409:4063:4e03:20ba:2b14:b92f:c9bc:aab0 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::cec0:e40c:8e1b:e305 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:89:d6:5d txqueuelen 1000 (Ethernet)
    RX packets 102 bytes 10970 (10.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 70 bytes 6684 (6.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@localhost ~]# route -n
Kernel IP routing table

```

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
192.168.225.0	0.0.0.0	255.255.255.254	U	0	0	0	enp0s3

```

[root@localhost ~]#

```


System 3

File Machine View Input Devices Help

```
[root@localhost ~]# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.225.140 netmask 255.255.255.0 broadcast 192.168.225.255
    inet6 fe80::b12a:3a15:54ab:ea54 prefixlen 64 scopeid 0x20<link>
    inet6 2409:4063:4e03:20ba:6eb1:2e30:3487:2b43 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::cec0:e40c:8e1b:e305 prefixlen 64 scopeid 0x20<link>
    inet6 fe80::5125:88ec:9792:1d22 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:21:8c:cf txqueuelen 1000 (Ethernet)
    RX packets 136 bytes 13254 (12.9 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 102 bytes 9592 (9.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
[root@localhost ~]# ifconfig enp0s3 192.168.225.3/24
```

```
[root@localhost ~]# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.225.3 netmask 255.255.255.0 broadcast 192.168.225.255
    inet6 fe80::b12a:3a15:54ab:ea54 prefixlen 64 scopeid 0x20<link>
    inet6 2409:4063:4e03:20ba:6eb1:2e30:3487:2b43 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::cec0:e40c:8e1b:e305 prefixlen 64 scopeid 0x20<link>
    inet6 fe80::5125:88ec:9792:1d22 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:21:8c:cf txqueuelen 1000 (Ethernet)
    RX packets 139 bytes 13486 (13.1 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 104 bytes 9830 (9.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
[root@localhost ~]# route add -net 192.168.225.0/31 enp0s3
```

```
[root@localhost ~]# route -n
```

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
192.168.225.0	0.0.0.0	255.255.255.254	U	0	0	0	enp0s3

```
[root@localhost ~]#
```

System 1

File Machine View Input Devices Help

```
[root@localhost ~]# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.225.1 netmask 255.255.255.0 broadcast 192.168.225.255
    inet6 2409:4063:4e03:200a::c6a3:207:2570 prefixlen 64 scopeid 0x0<global>
    inet6 2409:4063:439f:cd96:70f2:c6a3:207:2570 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::cec0:e40c:8e1b:e305 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:59:22:62 txqueuelen 1000 (Ethernet)
    RX packets 183 bytes 17049 (16.6 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 190 bytes 19192 (18.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
[root@localhost ~]# ping 192.168.225.1
PING 192.168.225.1 (192.168.225.1) 56(84) bytes of data:
64 bytes from 192.168.225.1: icmp_seq=1 ttl=64 time=0.059 ms
64 bytes from 192.168.225.1: icmp_seq=2 ttl=64 time=0.056 ms
^C
```

```
--- 192.168.225.1 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 42ms
rtt min/avg/max/mdev = 0.056/0.057/0.059/0.007 ms
```

```
[root@localhost ~]# ping 192.168.225.2
PING 192.168.225.2 (192.168.225.2) 56(84) bytes of data:
64 bytes from 192.168.225.2: icmp_seq=1 ttl=64 time=0.588 ms
64 bytes from 192.168.225.2: icmp_seq=2 ttl=64 time=0.914 ms
^C
```

```
--- 192.168.225.2 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 31ms
rtt min/avg/max/mdev = 0.588/0.751/0.914/0.163 ms
```

```
[root@localhost ~]# ping 192.168.225.3
PING 192.168.225.3 (192.168.225.3) 56(84) bytes of data:
64 bytes from 192.168.225.3: icmp_seq=1 ttl=64 time=0.547 ms
64 bytes from 192.168.225.3: icmp_seq=2 ttl=64 time=0.634 ms
^C
```

```
--- 192.168.225.3 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 36ms
rtt min/avg/max/mdev = 0.547/0.590/0.634/0.049 ms
```

```
[root@localhost ~]#
```


System 2

File Machine View Input Devices Help

```
[root@localhost ~]# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.225.2 netmask 255.255.255.0 broadcast 192.168.225.255
    inet6 fe80::3123:00ec:3732:1a22 prefixlen 64 scopeid 0x20<link>
    inet6 2409:4063:4e03:20ba:2b14:b92f:c9bc:aab0 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::cec0:e40c:8e1b:e305 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:89:d6:5d txqueuelen 1000 (Ethernet)
    RX packets 180 bytes 16870 (16.4 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 106 bytes 9546 (9.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@localhost ~]# ping 192.168.225.1
PING 192.168.225.1 (192.168.225.1) 56(84) bytes of data.
64 bytes from 192.168.225.1: icmp_seq=1 ttl=64 time=2.74 ms
64 bytes from 192.168.225.1: icmp_seq=2 ttl=64 time=3.22 ms
64 bytes from 192.168.225.1: icmp_seq=3 ttl=64 time=2.88 ms
^C
--- 192.168.225.1 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 5ms
rtt min/avg/max/mdev = 2.740/2.944/3.215/0.204 ms

[root@localhost ~]# ping 192.168.225.2
PING 192.168.225.2 (192.168.225.2) 56(84) bytes of data.
64 bytes from 192.168.225.2: icmp_seq=1 ttl=64 time=0.058 ms
64 bytes from 192.168.225.2: icmp_seq=2 ttl=64 time=0.100 ms
64 bytes from 192.168.225.2: icmp_seq=3 ttl=64 time=0.095 ms
^C
--- 192.168.225.2 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 81ms
rtt min/avg/max/mdev = 0.058/0.084/0.100/0.020 ms

[root@localhost ~]# ping 192.168.225.3
connect: Network is unreachable
[root@localhost ~]#
```

System 3

File Machine View Input Devices Help

```
[root@localhost ~]# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.225.3 netmask 255.255.255.0 broadcast 192.168.225.255
    inet6 fe80::b12a:3a15:31a0:e051 prefixlen 64 scopeid 0x20<link>
    inet6 2409:4063:4e03:20ba:6eb1:2e30:3487:2b43 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::cec0:e40c:8e1b:e305 prefixlen 64 scopeid 0x20<link>
    inet6 fe80::5125:88ec:9792:1d22 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:21:8c:cf txqueuelen 1000 (Ethernet)
    RX packets 172 bytes 16116 (15.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 126 bytes 11918 (11.6 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@localhost ~]# ping 192.168.225.1
PING 192.168.225.1 (192.168.225.1) 56(84) bytes of data:
64 bytes from 192.168.225.1: icmp_seq=1 ttl=64 time=4.54 ms
64 bytes from 192.168.225.1: icmp_seq=2 ttl=64 time=3.26 ms
64 bytes from 192.168.225.1: icmp_seq=3 ttl=64 time=1.98 ms
^C
--- 192.168.225.1 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 6ms
rtt min/avg/max/mdev = 1.978/3.258/4.538/1.045 ms
[root@localhost ~]# ping 192.168.225.2
connect: Network is unreachable
[root@localhost ~]# ping 192.168.225.3
PING 192.168.225.3 (192.168.225.3) 56(84) bytes of data:
64 bytes from 192.168.225.3: icmp_seq=1 ttl=64 time=0.045 ms
64 bytes from 192.168.225.3: icmp_seq=2 ttl=64 time=0.053 ms
64 bytes from 192.168.225.3: icmp_seq=3 ttl=64 time=0.042 ms
^C
--- 192.168.225.3 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 72ms
rtt min/avg/max/mdev = 0.042/0.046/0.053/0.009 ms
[root@localhost ~]#
```