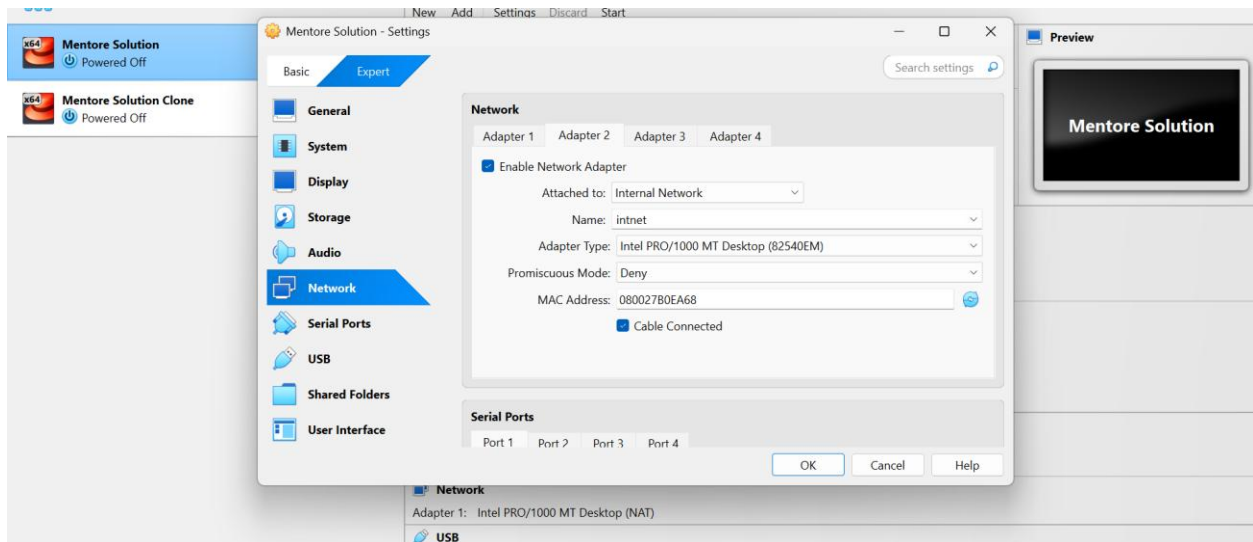


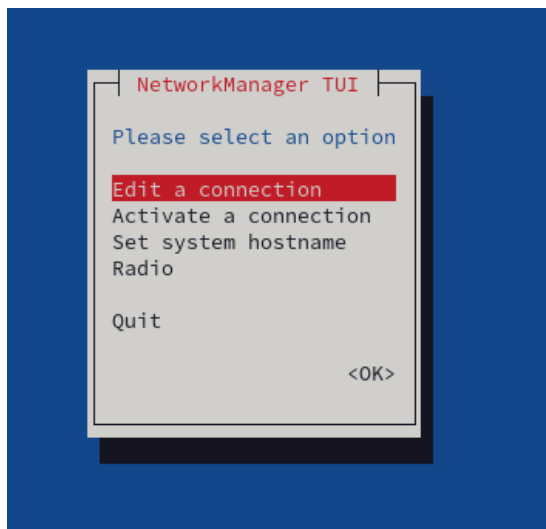
# Networking

## Set Adapter2 as internal network to both machines

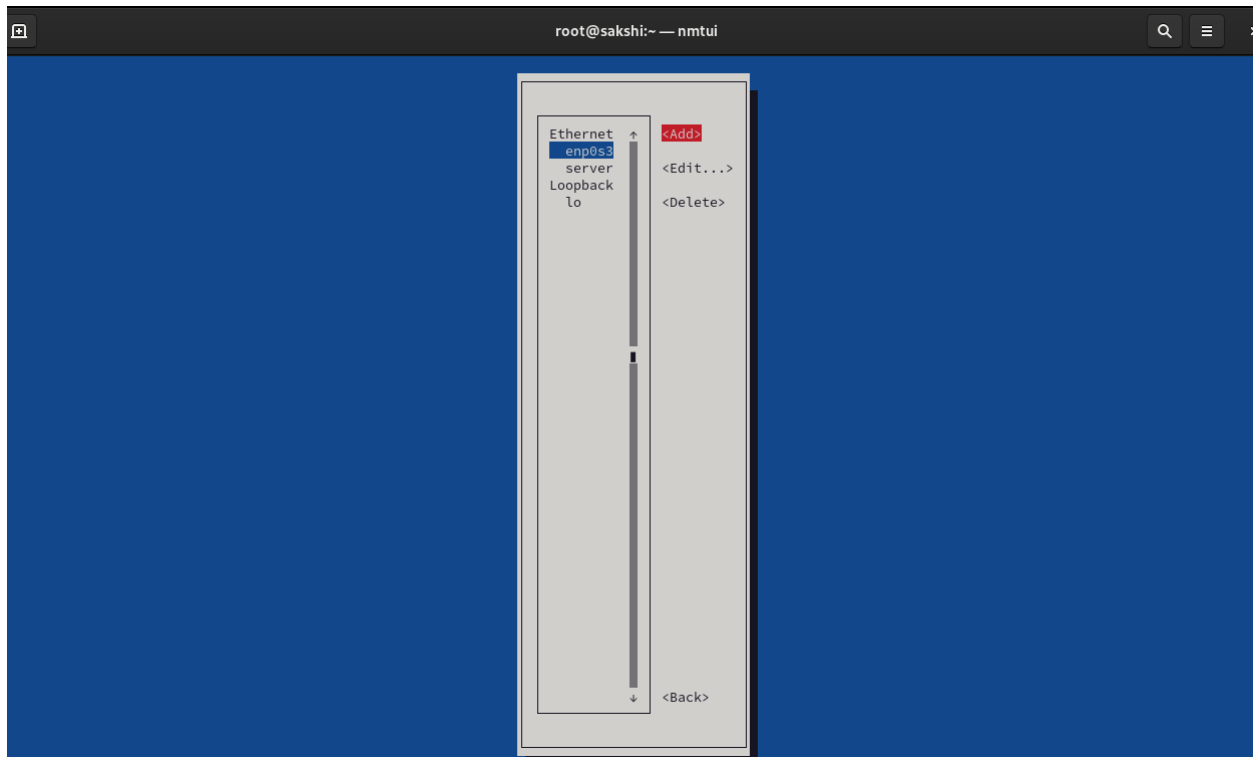


### For Machine 1:

Click on edit a connection



Click on add



Add address to IPv4

### Edit Connection

Profile name server  
Device enp0s8 (08:00:27:B0:EA:68)

= ETHERNET <Show>  
= 802.1X SECURITY <Show>

IPv4 CONFIGURATION <Automatic> <Hide>  
Addresses 192.168.0.3/24 <Remove>  
<Add...>  
Gateway 192.168.0.1  
DNS servers <Add...>  
Search domains <Add...>

Routing (No custom routes) <Edit...>  
☐ Never use this network for default route  
☐ Ignore automatically obtained routes  
☐ Ignore automatically obtained DNS parameters  
☐ Require IPv4 addressing for this connection

= IPv6 CONFIGURATION <Automatic> <Show>

☒ Automatically connect  
☒ Available to all users

<Cancel> <OK>

I

```

[root@sakshi ~]# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe38:e03 prefixlen 64 scopeid 0x20<link>
    inet6 fd00::a00:27ff:fe38:e03 prefixlen 64 scopeid 0x0<global>
    ether 08:00:27:38:0e:03 txqueuelen 1000 (Ethernet)
    RX packets 187 bytes 34417 (33.6 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 233 bytes 23300 (22.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.3 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::b11f:df66:115f:6728 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:b0:ea:68 txqueuelen 1000 (Ethernet)
    RX packets 109 bytes 19918 (19.4 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 380 bytes 57316 (55.9 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 44 bytes 4302 (4.2 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 44 bytes 4302 (4.2 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@sakshi ~]# ping 192.168.0.3
PING 192.168.0.3 (192.168.0.3) 56(84) bytes of data.
64 bytes from 192.168.0.3: icmp_seq=1 ttl=64 time=0.107 ms
64 bytes from 192.168.0.3: icmp_seq=2 ttl=64 time=0.084 ms
64 bytes from 192.168.0.3: icmp_seq=3 ttl=64 time=0.069 ms
64 bytes from 192.168.0.3: icmp_seq=4 ttl=64 time=0.070 ms
^C
--- 192.168.0.3 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3064ms
rtt min/avg/max/mdev = 0.069/0.082/0.107/0.015 ms
[root@sakshi ~]#

```

## Machine 2:

# Edit Connection

Profile name client\_\_\_\_\_

Device enp0s8 (08:00:27:3B:4E:7F)\_\_\_\_\_

= ETHERNET <Show>

= 802.1X SECURITY <Show>

= IPv4 CONFIGURATION <Automatic> <Hide>

Addresses 192.168.0.2/24\_\_\_\_\_ <Remove>

<Add...>

Gateway 192.168.0.1\_\_\_\_\_

DNS servers <Add...>

Search domains <Add...>

Routing (No custom routes) <Edit...>

[ ] Never use this network for default route

[ ] Ignore automatically obtained routes

[ ] Ignore automatically obtained DNS parameters

[ ] Require IPv4 addressing for this connection

= IPv6 CONFIGURATION <Automatic> <Show>

[X] Automatically connect

[X] Available to all users

<Cancel> <OK>

```

[root@sakshi ~]# nmtui
[root@sakshi ~]# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe38:e03 prefixlen 64 scopeid 0x20<link>
    inet6 fd00::a00:27ff:fe38:e03 prefixlen 64 scopeid 0x0<global>
    ether 08:00:27:38:0e:03 txqueuelen 1000 (Ethernet)
    RX packets 299 bytes 134577 (131.4 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 346 bytes 47357 (46.2 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.2 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::2176:8792:e756:59bd prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:3b:4e:7f txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 27 bytes 4034 (3.9 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 17 bytes 2068 (2.0 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 17 bytes 2068 (2.0 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@sakshi ~]# ping 192.168.0.2
PING 192.168.0.2 (192.168.0.2) 56(84) bytes of data.
64 bytes from 192.168.0.2: icmp_seq=1 ttl=64 time=0.217 ms
64 bytes from 192.168.0.2: icmp_seq=2 ttl=64 time=0.167 ms
64 bytes from 192.168.0.2: icmp_seq=3 ttl=64 time=0.132 ms
64 bytes from 192.168.0.2: icmp_seq=4 ttl=64 time=0.043 ms
64 bytes from 192.168.0.2: icmp_seq=5 ttl=64 time=0.071 ms
^C
--- 192.168.0.2 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4085ms
rtt min/avg/max/mdev = 0.043/0.126/0.217/0.063 ms
[root@sakshi ~]#

```

## Connection Between both machines:

```

[root@sakshi ~]# nmtui
[root@sakshi ~]# ping 192.168.0.2
PING 192.168.0.2 (192.168.0.2) 56(84) bytes of data.
64 bytes from 192.168.0.2: icmp_seq=1 ttl=64 time=2.43 ms
64 bytes from 192.168.0.2: icmp_seq=2 ttl=64 time=5.85 ms
64 bytes from 192.168.0.2: icmp_seq=3 ttl=64 time=4.09 ms
64 bytes from 192.168.0.2: icmp_seq=4 ttl=64 time=4.92 ms
64 bytes from 192.168.0.2: icmp_seq=5 ttl=64 time=1.49 ms
^C
--- 192.168.0.2 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4010ms
rtt min/avg/max/mdev = 1.489/3.756/5.848/1.597 ms
[root@sakshi ~]# ping 192.168.0.3
PING 192.168.0.3 (192.168.0.3) 56(84) bytes of data.
64 bytes from 192.168.0.3: icmp_seq=1 ttl=64 time=0.279 ms
64 bytes from 192.168.0.3: icmp_seq=2 ttl=64 time=0.083 ms
64 bytes from 192.168.0.3: icmp_seq=3 ttl=64 time=0.081 ms
64 bytes from 192.168.0.3: icmp_seq=4 ttl=64 time=0.106 ms
64 bytes from 192.168.0.3: icmp_seq=5 ttl=64 time=0.130 ms
64 bytes from 192.168.0.3: icmp_seq=6 ttl=64 time=0.100 ms
64 bytes from 192.168.0.3: icmp_seq=7 ttl=64 time=0.082 ms
^C
--- 192.168.0.3 ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6140ms
rtt min/avg/max/mdev = 0.081/0.123/0.279/0.065 ms

```