IT3010
Network Design & Management
3rd Year, 1st Semester

<Lab Report>

<Practical 01/lab report 01 >

Submitted to

Sri Lanka Institute of Information Technology

In partial fulfillment of the requirements for the

Bachelor of Science Special Honors Degree in Information Technology

<<2019/03/02>>

Declaration

I certify that this report does not incorporate without acknowledgement, any material previously submitted for a degree or diploma in any university, and to the best of my knowledge and belief it does not contain any material previously published or written by another person, except where due reference is made in text.

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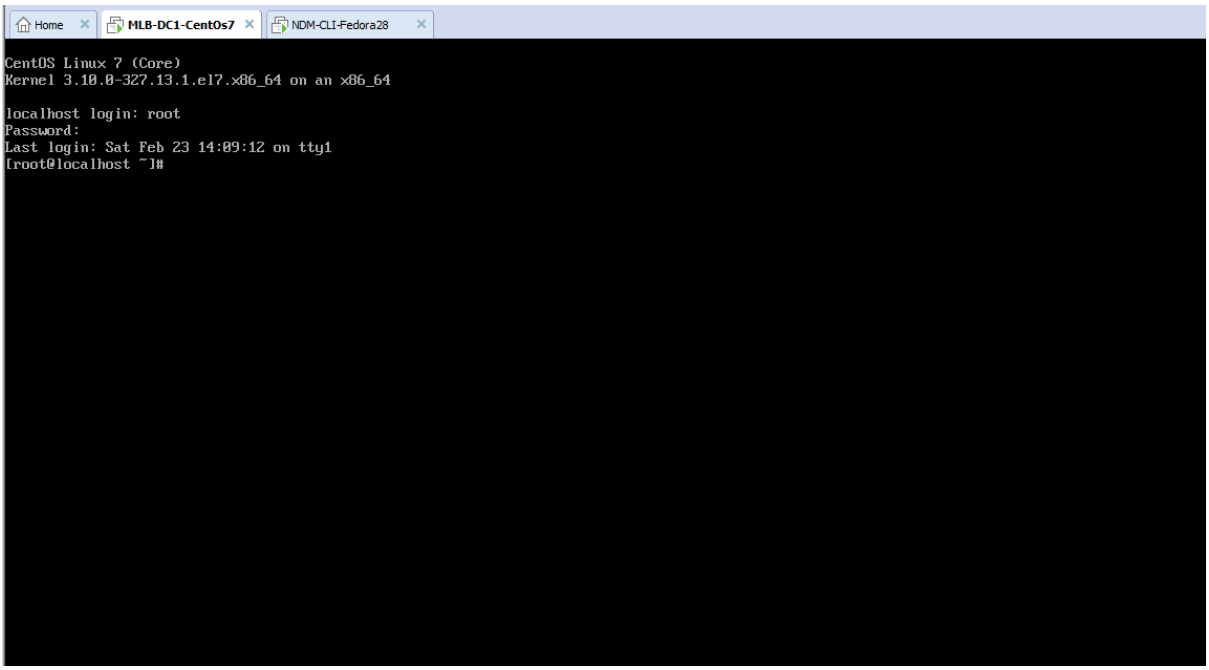
Network Configurations

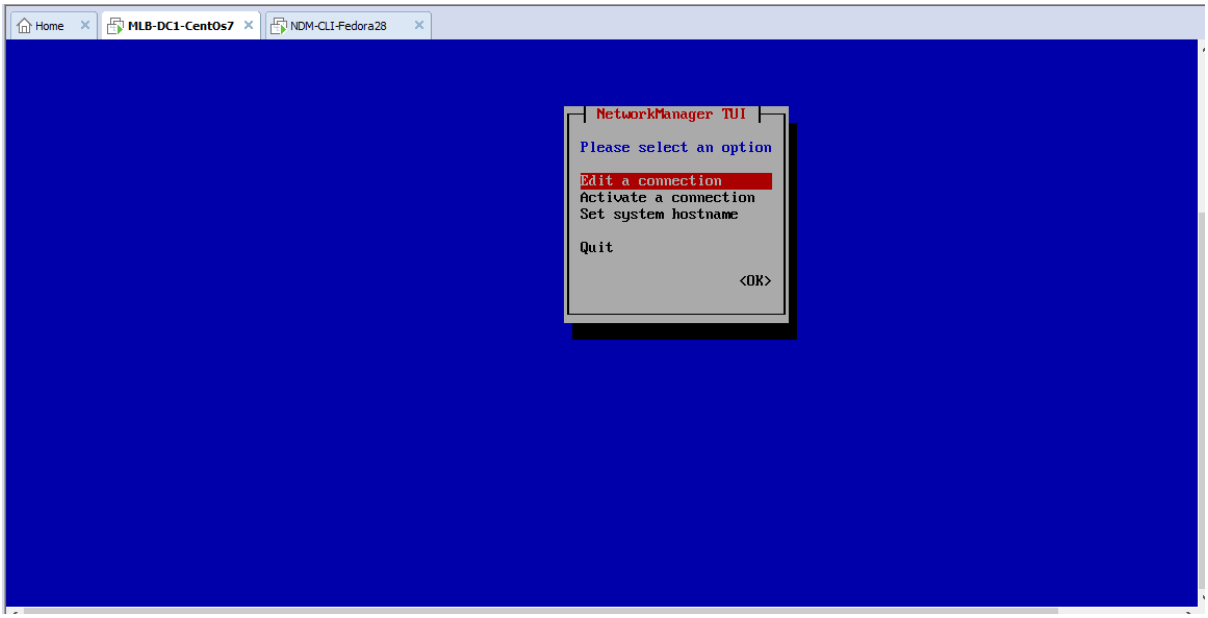
Configure Server CentOS7

1) Login to the CentOS7 using user/password root. Then CLI goes to [root@localhost].

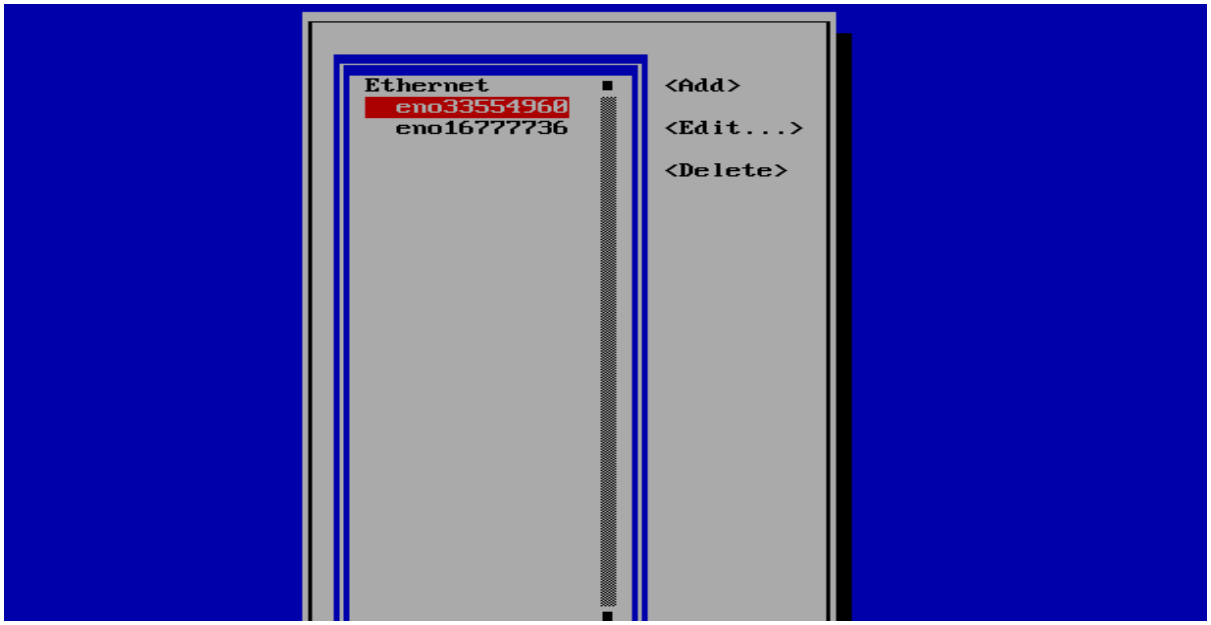


2)Then configure the Sever using nmtui command in CLI. In nmtui we can edit / activate / set system host name.

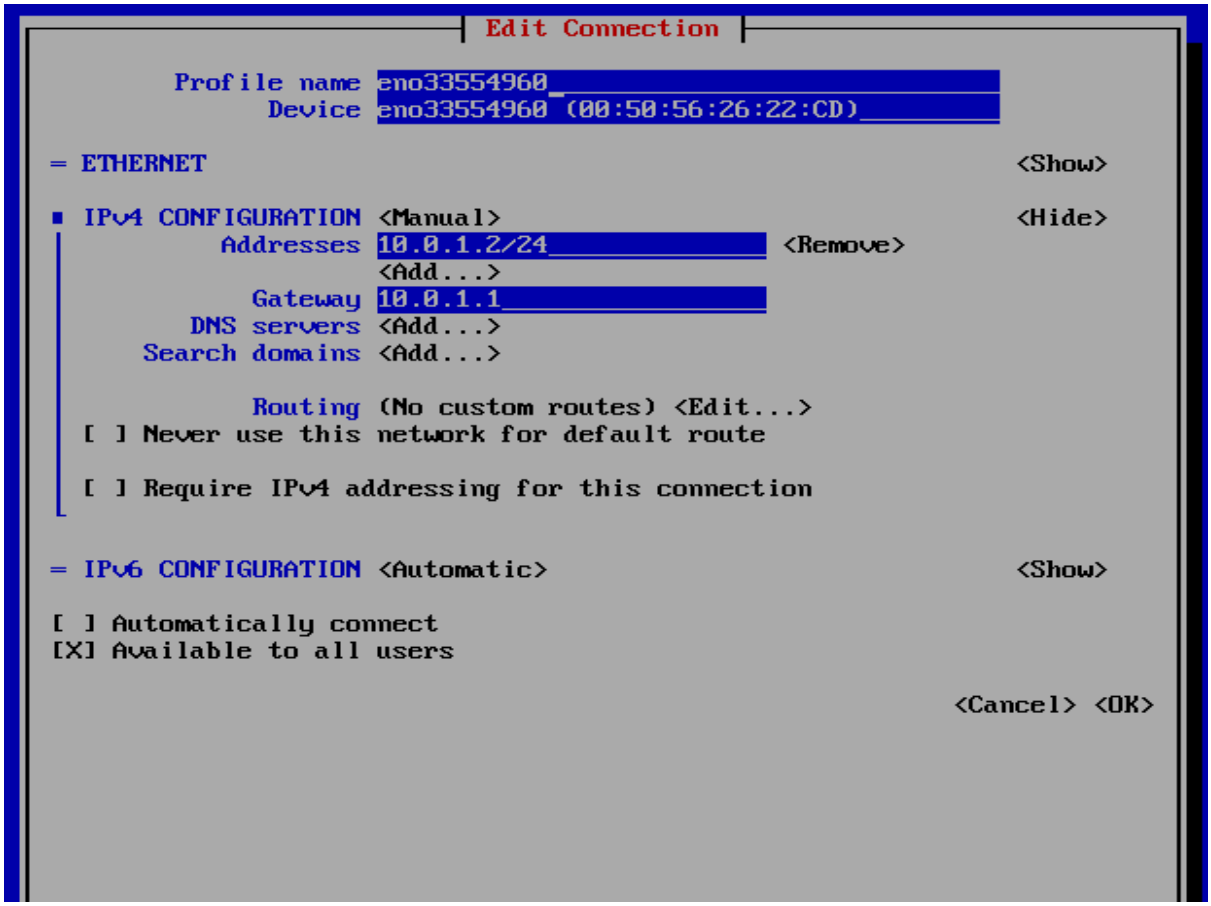
2) Edit connection using => Edit a connection



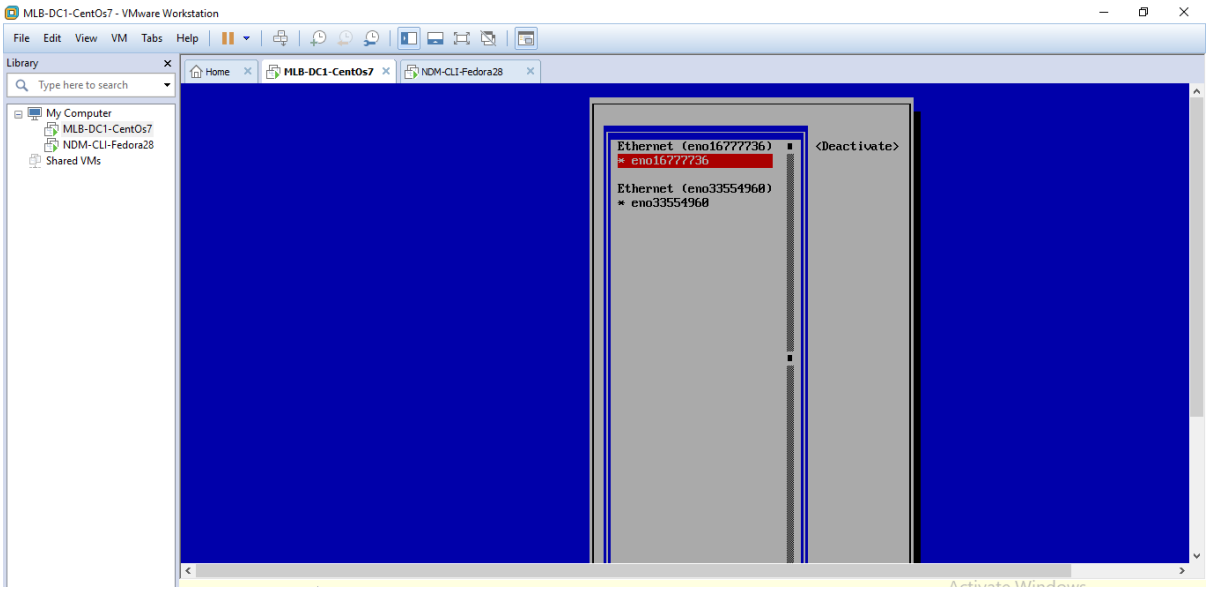
3) Edit network adapter in my case VMNAT2 => eno33554960. Then select <Edit…>



4) Set IPV4 conf <auto> => manual. Then Set address 10.0.1.2/24. Set Gateway 10.0.1.1. Then <ok>.



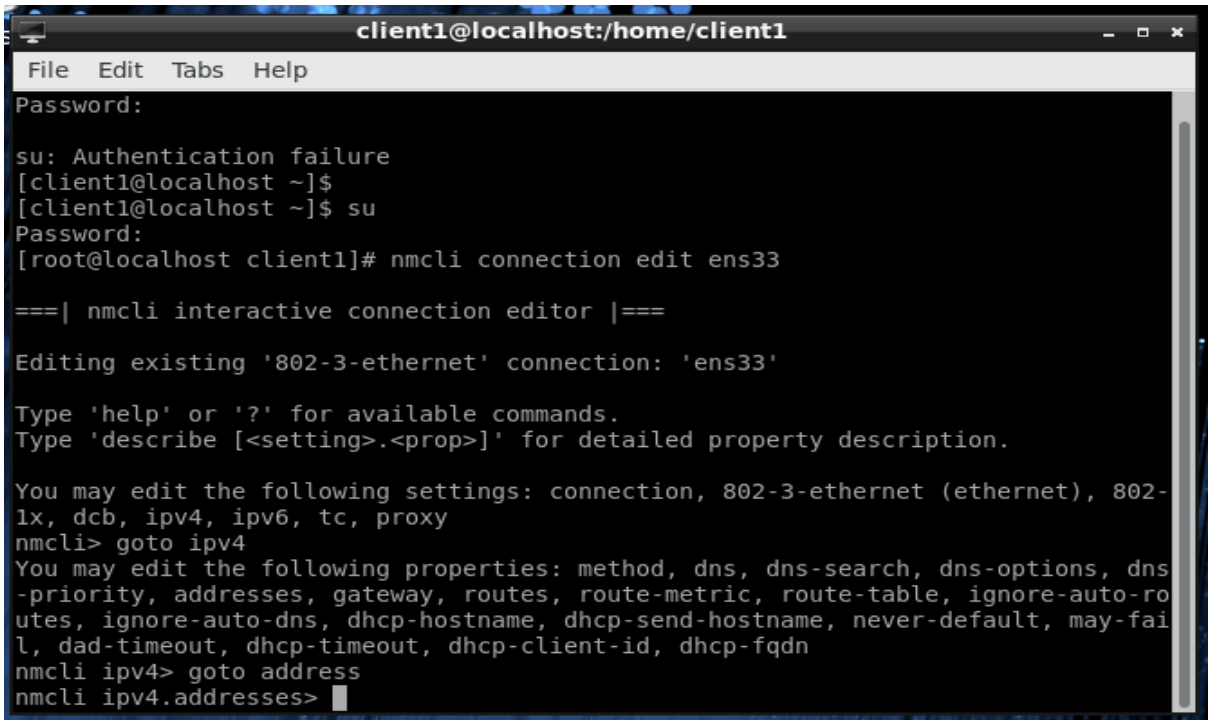
5)Activate vmNat2 network adapter => eno167777…



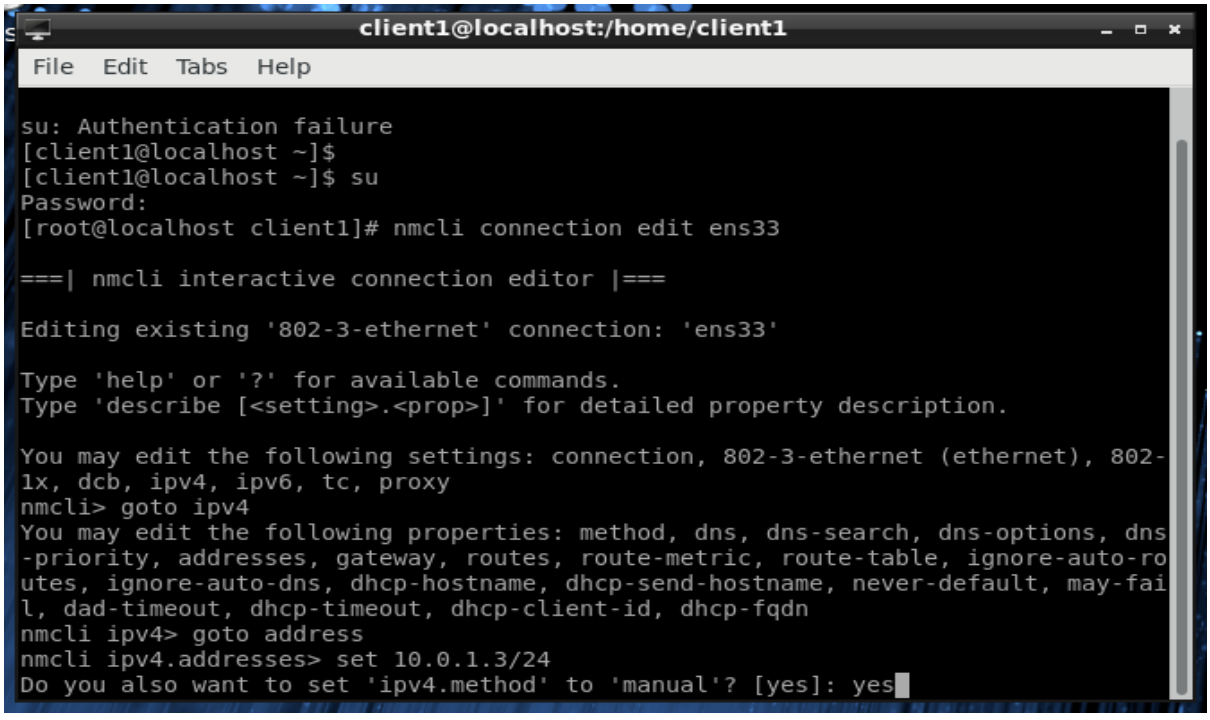
We have to activate network adapter in cases.

Configure client fedora 28 using CLI

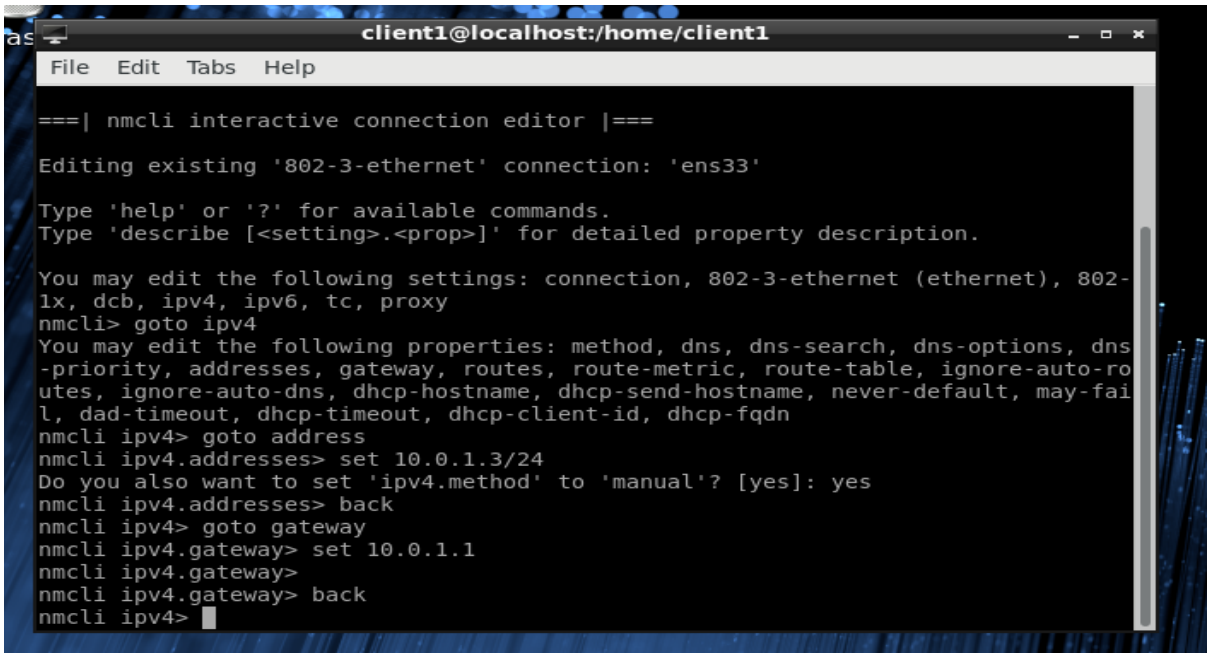
1) Open CLI and type su. Then it opens [root@localhost client1]# then type nmcli connection edit ens33 in my case for edit client connection network adapter.



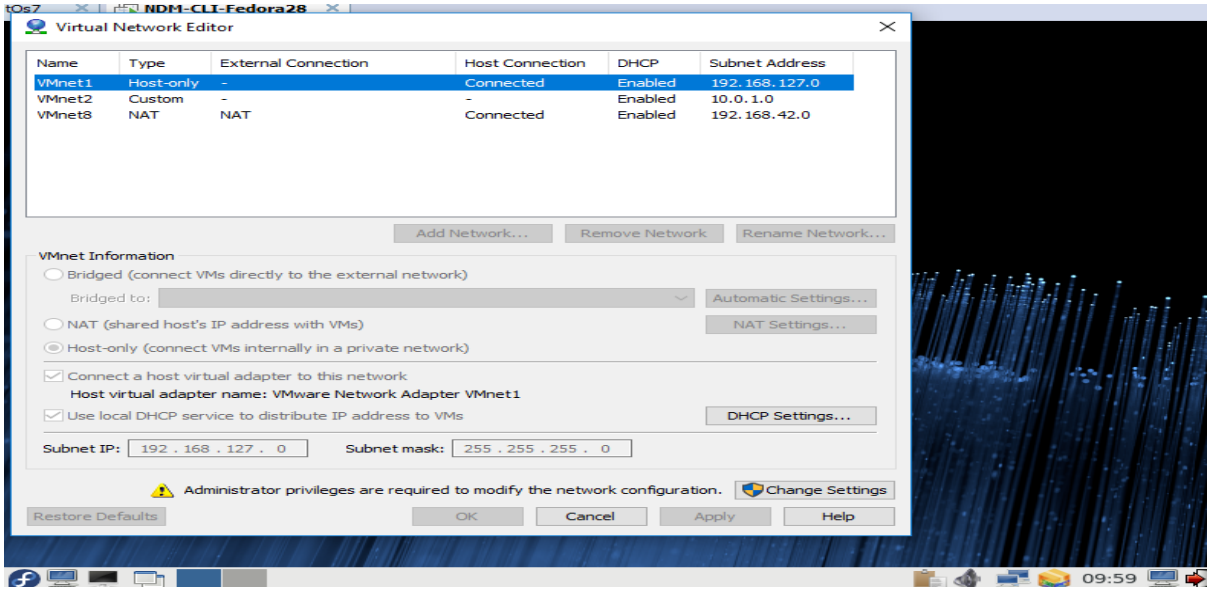
2)nmcli> goto ipv4 => to edit ipv4 address for ens 33

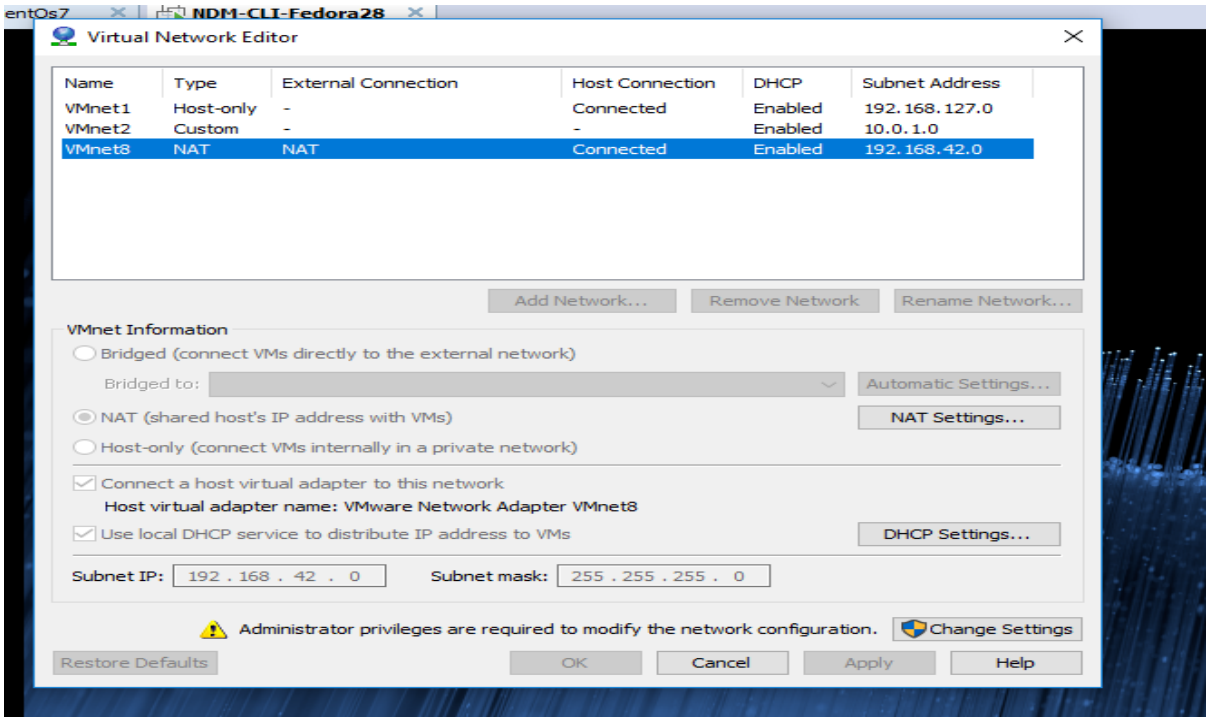


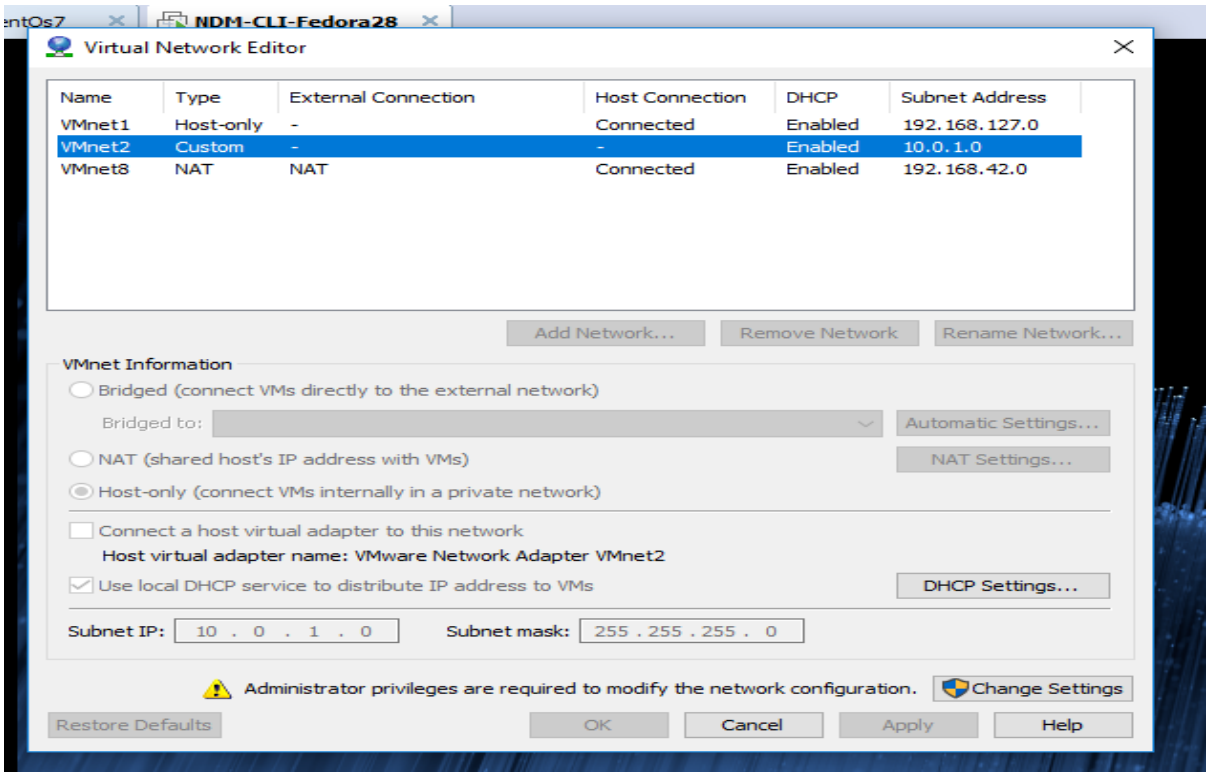
3)nmcli> goto gateway => set the gateway address to ens33



4)view Network adpter settings . Also we can edit / add network connection using this gui.




entOs7
NDM-CLI-Fedora28
Virtual Network Editor
Name Type External Connection Host Connection DHCP Subnet Address
VMnet1 Host-only - Connected Enabled 192.168.127.0
VMnet2 Custom - - Enabled 10.0.1.0
VMnet8 NAT NAT Connected Enabled 192.168.42.0
Add Network... Remove Network Rename Network...
VMnet Information
Bridged (connect VMs directly to the external network)
Bridged to:
Automatic Settings...
NAT (shared host's IP address with VMs)
NAT Settings...
Host-only (connect VMs internally in a private network)
Connect a host virtual adapter to this network
Host virtual adapter name: VMware Network Adapter VMnet8
Use local DHCP service to distribute IP address to VMs
DHCP Settings...
Subnet IP: 192 . 168 . 42 . 0
Subnet mask: 255 . 255 . 255 . 0
Administrator privileges are required to modify the network configuration.
Change Settings
Restore Defaults
OK
Cancel
Apply
Help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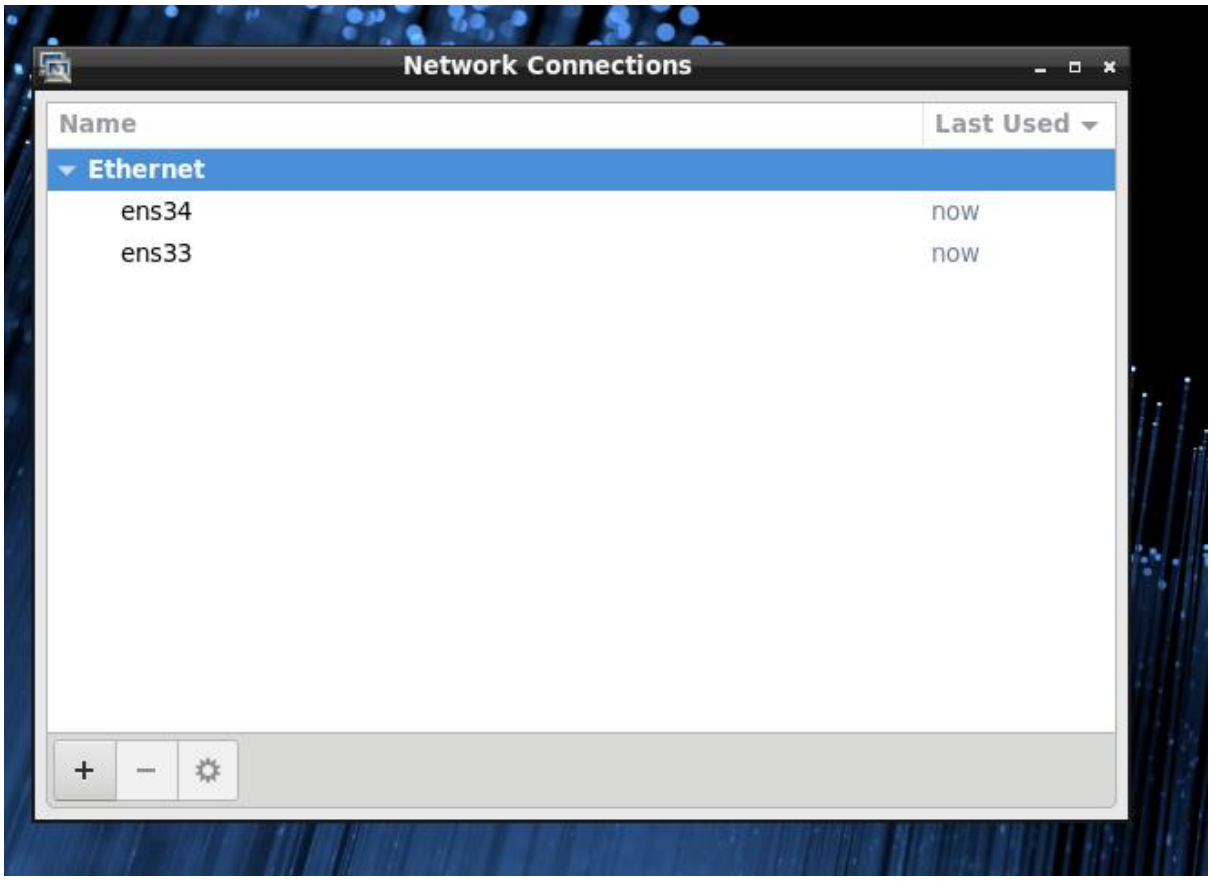
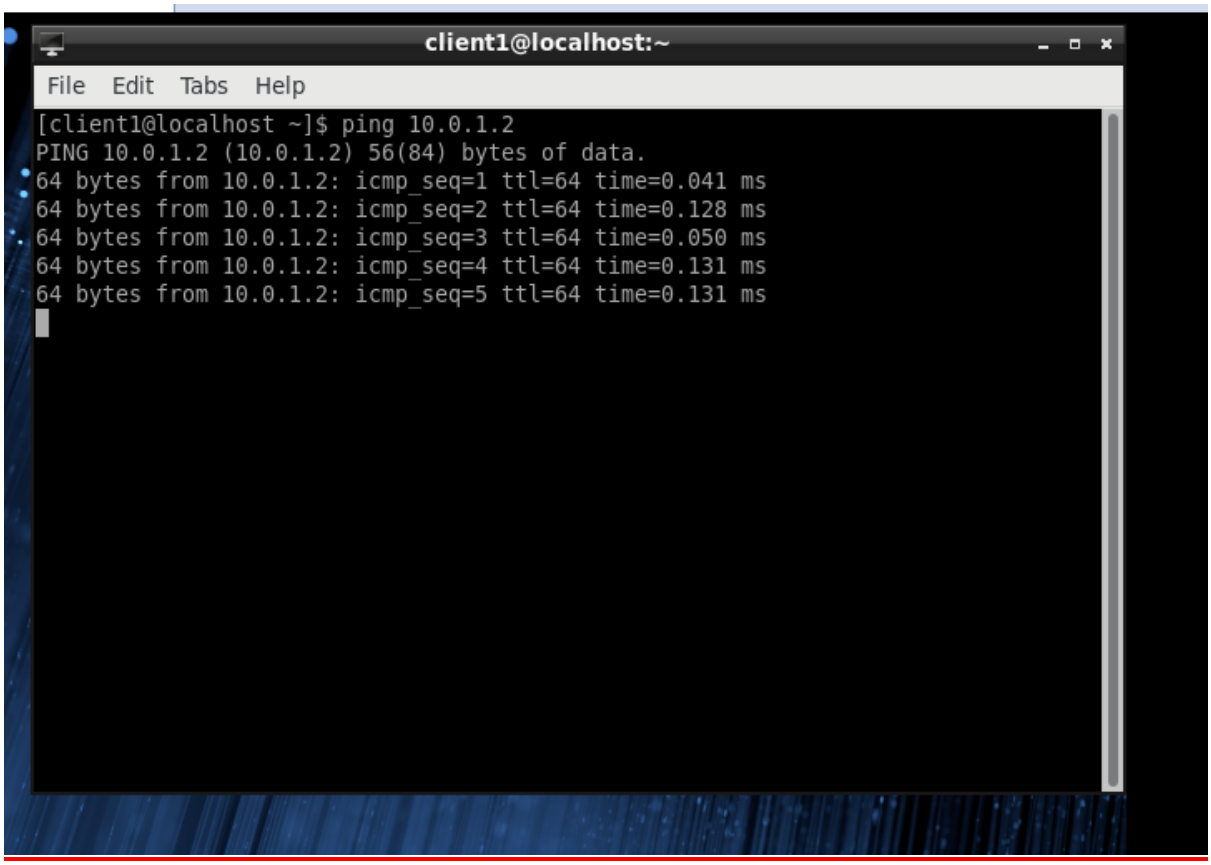
Add Network... Remove Network Rename Network...
VMnet Information
Bridged (connect VMs directly to the external network)
Bridged to:
Automatic Settings...
NAT (shared host's IP address with VMs)
NAT Settings...
Host-only (connect VMs internally in a private network)
Connect a host virtual adapter to this network
Host virtual adapter name: VMware Network Adapter VMnet2
Use local DHCP service to distribute IP address to VMs
DHCP Settings...
Subnet IP: 10 . 0 . 1 . 0
Subnet mask: 255 . 255 . 255 . 0
Administrator privileges are required to modify the network configuration.
Change Settings
Restore Defaults
OK
Cancel
Apply
Help

5)View edited Network adpter VMNAT2 .Also we can edit /view ipv4 gate way address using this gui.



6) Checking the connectivity of the connection.



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