RHCSA-SA1 LAB-Book

Chapter 12 - Managing Networking

Practical on how to set network configuration of system using command line interface:

IP: 172.25.X.90 (X being your server number / station number / foundation number).

Subnet Mask: 255.255.255.0

Gateway: 172.25.X.254

DNS: 172.25.X.254

Set the Hostname: serverX.lab.example.com

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Step 1: Display a list of all connections.

Command: nmcli connection show

Step 2: Display the status of all network devices.

Command: nmcli device show

Step 3: Adding new connection, Interface Name, Connection type, IPv4 Address and Default Gateway.

Command: nmcli con add con-name "static-addr" ifname enX type ethernet ipv4.method manual ipv4.address 172.25.250.10 / 24 ipv4.gateway 172.25.250.254

Step 4: Adding DNS

Command: nmcli con mod "static-addr" ipv4.dns 172.25.250.254

Step 5: To activates the connection

Command: nmcli con up "static-addr"

Step 6: Turn off autoconnect

Command: nmcli con mod "Wired connection 1" connection. autoconnect no

Step 7: Set the hostname as per given above

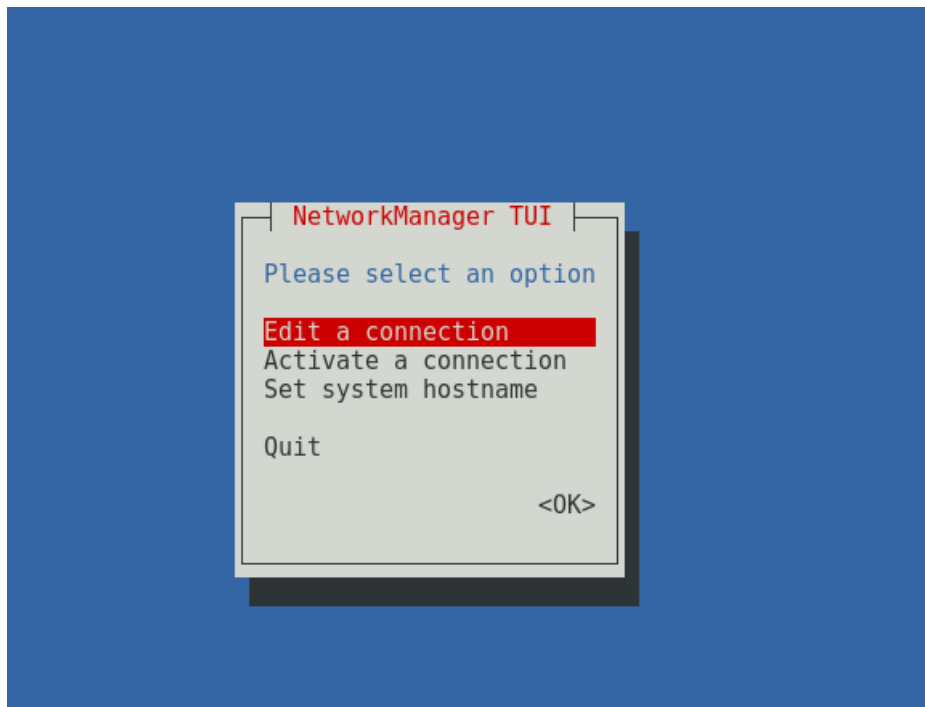**Command:** hostnamectl set-hostname serverX.lab.example.com

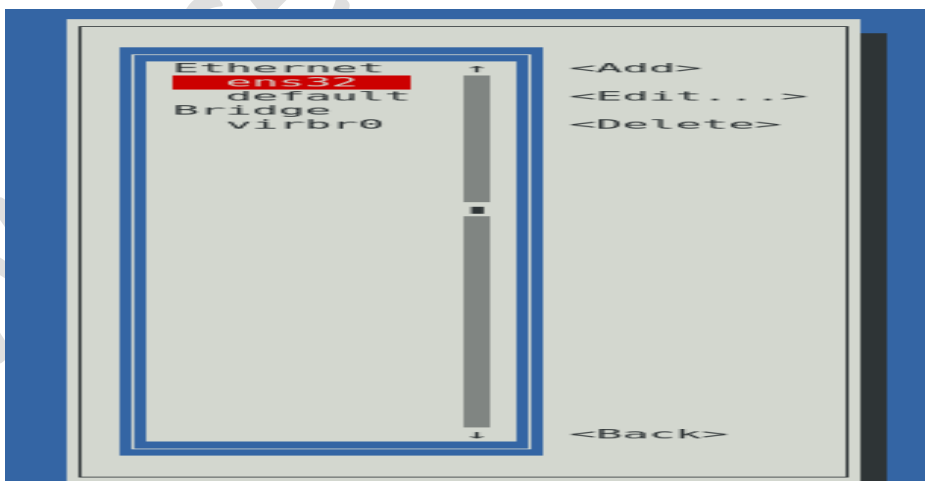**Step 8: Verify the hostname status.**

Command: hostname

Practical on how to set network configuration of system using graphical interface:
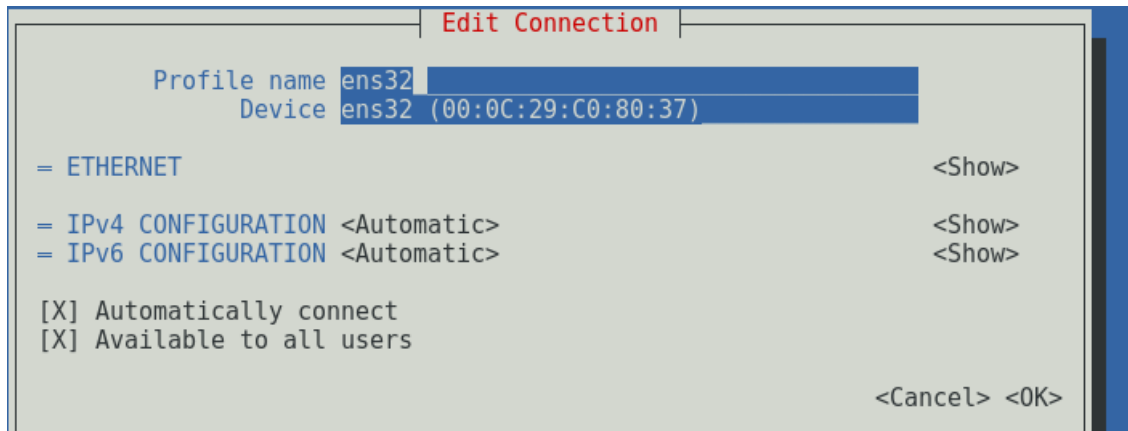
Step 1: Type nmtui

Step 2: One screen will appear as below:

Step 3: Then click on "Edit a connection" option and then a new screen will appear

Step 4: Then click on "Edit" option and then a new screen will appear

Add below things:

    Profile name: ens32

    Device: ens32 (00:0C:29:C0:80:37)
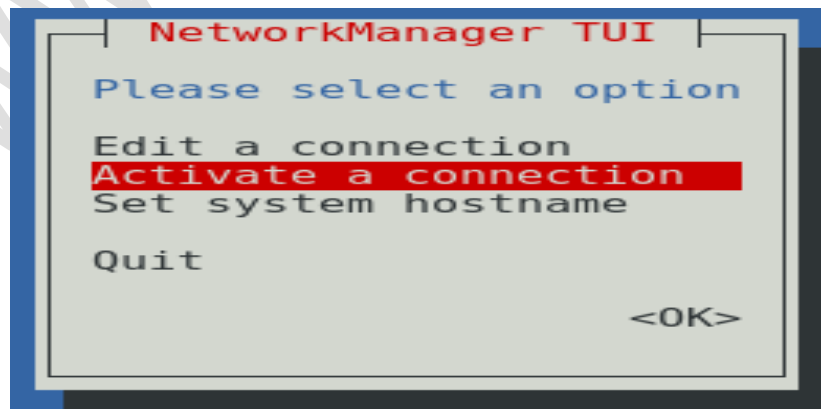
    Ethernet
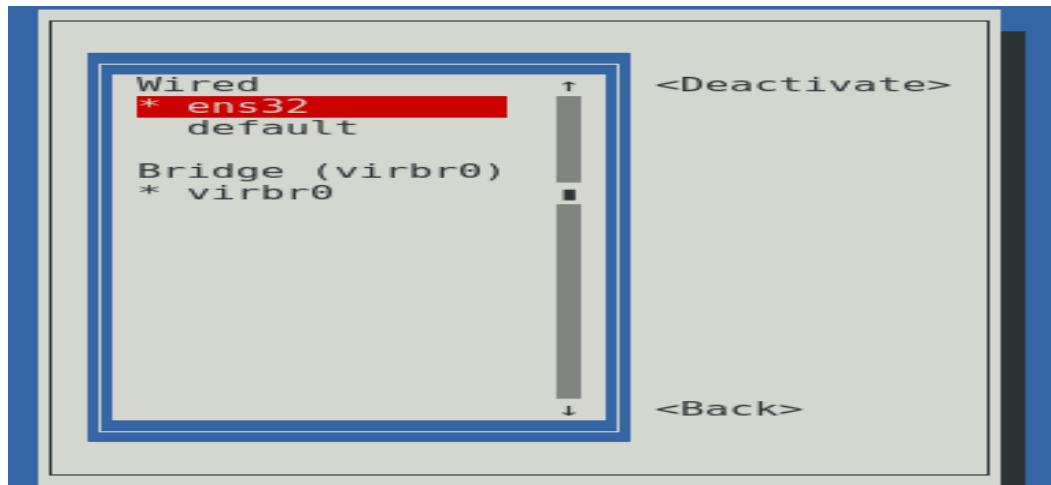
    IPv4 CONFIGURATION

    IPV6 CONFIGURATION
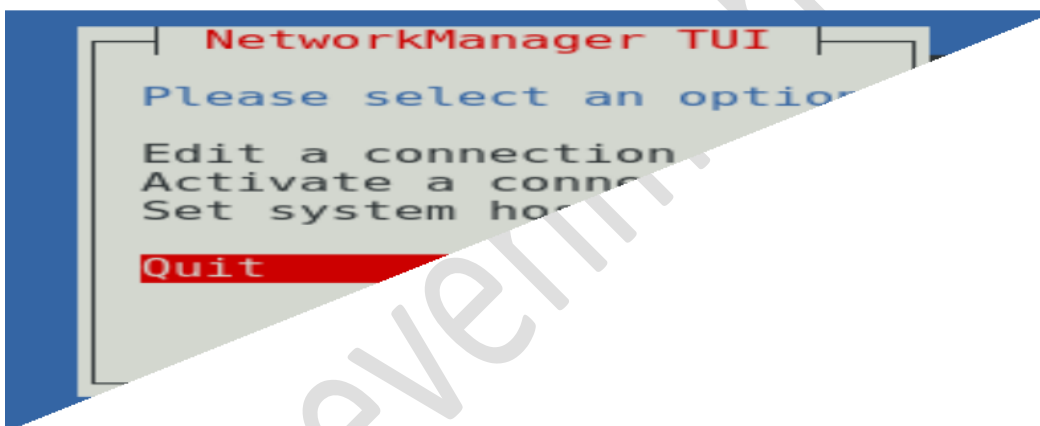
    Automatically connect

    Available to all users

Step 5: To Activate a connection:

Select option "Activate a connection" and you will be able to see the below screen

Step 6: At last, select "Quit" option.

Summary of nmcli commands:

nmcli commands

Command	Use
nmcli dev status	List all devices.
nmcli con show	List all connections.
nmcli con up "<ID>"	Activate a connection.
nmcli con down "<ID>"	Deactivate a connection. The connection will restart if autoconnect is yes.
nmcli dev dis <DEV>	Bring down an interface and temporarily disable autoconnect.
nmcli net off	Disable all managed interfaces.
nmcli con add ...	Add a new connection.
nmcli con mod "<ID>" ...	Modify a connection.
nmcli con del "<ID>"	Delete a connection.

END