Intro to Linux

1.5.1 - Network Interface Management

iproute2

- Used to manage IP addresses, routes, interfaces, and more

- Two commonly used tools are ss and ip

- The `ss` command displays socket statistics and includes information on sockets, ports, and protocols in use

Iproute2 cont'd

- The ip command displays and allows managing of the current network configurations within a system

- Adding a parameter after the command allows for managing addresses, links, routing tables, and rules currently in place
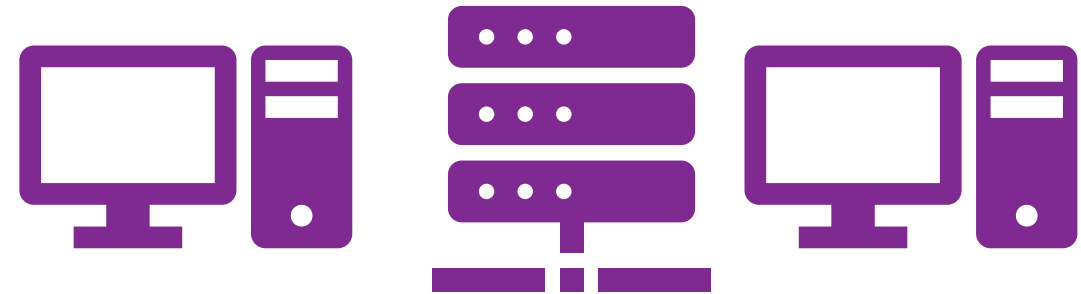
Network Manager

- Network Manager provides a user-friendly interface for managing network connections

- The graphical interface can be initiated with the command nmtui

- The command nmcli will open the command line interface but still offers a user-friendly view
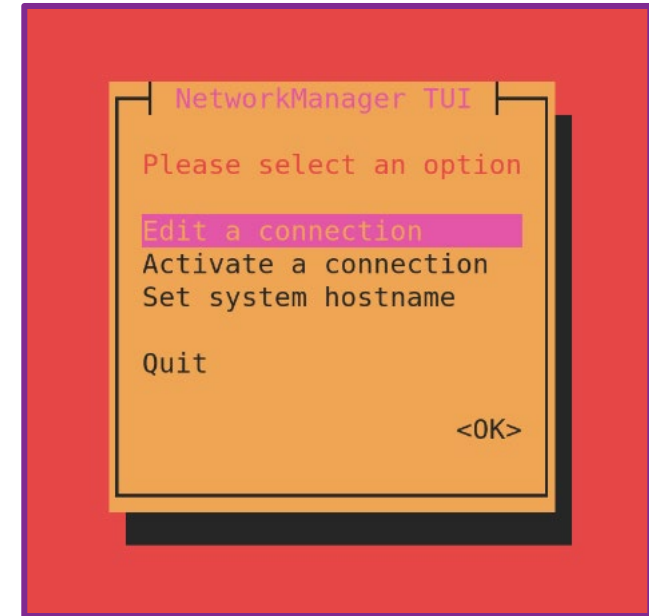
Net-tools

- Net-tools is a suite of utilities seen on older Linux systems and are slowly being phased out by iproute2 and Network Manager

Command	Purpose
`ifconfig`	Displays or sets IP Address and netmask values
`route`	Displays the default router address
`ifcfg`	Allows configuration of these settings
`hostname`	View or set the hostname of a Linux system
`arp`	View and manipulate the ARP cache, which maps devices within a network

Configuration Files

- The utilities listed can save the network configurations and are often stored in the /etc/sysconfig/network-scripts or /etc/network directories within the Linux system