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



```
ubuntu@ip-10-15-88-93:~$ nmcli
ens5: unmanaged
    "Amazon.com Elastic"
    ethernet (ena), 0A:E9:9C:4A:D6:91, hw, mtu 9001
lo: unmanaged
    "lo"
    loopback (unknown), 00:00:00:00:00, sw, mtu 65536

Use "nmcli device show" to get complete information about known devi "nmcli connection show" to get an overview on active connection prof
Consult nmcli(1) and nmcli-examples(7) manual pages for complete usa
```





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

