12.2 Network Interface Configuration

As you study this section, answer the following questions:

- What is the advantage of using dynamic addressing rather than static addressing?
- Where is the interface configuration file located on the system?
- How can you view the current status of the network interfaces from the shell prompt?
- Which utilities can disable and enable the network interfaces?

In this lesson, you will learn to:

- View information about the current network interfaces.
- Use the interface configuration file to manually assign a static address for the network interface.
- Disable and enable a network interface.

Key terms for this section include the following:

Term	Definition
NIC	A network interface card.
Network interface alias	A designation, such as eth0 or en0, that is associated with network interface cards.
Interface configuration file	A file in the /etc/sysconfig/network directory that is used to configure a network interface.
Static IP assignment	A method for manually assigning an IP address to a host.
DHCP IP assignment	A method for dynamically assigning an IP address to a host through a DHCP server.
Bonding	A method for aggregating multiple NICs into a single logical (bonded) interface.

This section helps you prepare for the following certification exam objectives:

Exam	Objective
TestOut Linux Pro	3.1 Configure networking and printing • Enable or disable network interfaces • Configure IP addresses • Troubleshoot IP configuration

CompTIA Linux+	1.3 Given a scenario, configure and verify network connection parameters.
	• Diagnostic Tools
	  ◦ IP
	• Configuration Files
	  ◦ /etc/sysconfig/network-scripts/
	  ◦ /etc/sysconfig/network
	  ◦ /etc/netplan
	  ◦ /etc/dhcp/dhclient.conf
	• Bonding
	  ◦ Aggregation
	  ◦ Active/passive
	  ◦ Load balancing