

15.4 Network Security

As you study this section, answer the following questions:

- What is a socket?
- Which utility will scan for all listening and non-listening sockets?
- Which utility will identify open ports on the Linux system?
- Which commands should you use to disable unneeded services?

Key terms for this section include the following:

Term	Definition
Port	A logical entity that acts as a endpoint of communication to identify a given application or process on a Linux operating system.
Access Control List (ACL)	An access control list (ACL) provides an additional, more flexible permission mechanism for file systems. It is designed to assist with UNIX file permissions. ACLs allow you to give permissions for any user or group to access any disc resource.
RPM Package Manager (RPM)	A popular utility for installing software on Unix-like systems, particularly Red Hat Linux.

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

Exam	Objective
TestOut Linux Pro	<div>1.5 Use package management</div> <ul style="list-style-type: none">• Install, remove, and update packages with the RPM command• Install, remove, and update RPM packages with DNF
CompTIA Linux+	<div>1.3 Given a scenario, configure and verify network connection parameters.</div> <ul style="list-style-type: none">• Configuration files<ul style="list-style-type: none">◦ /etc/sysctl.conf <div>2.1 Given a scenario, conduct software installations, configurations, updates, and removals.</div> <ul style="list-style-type: none">• Installation tools<ul style="list-style-type: none">◦ RPM◦ Dpkg◦ YUM◦ DNF◦ Zypper <div>2.4 Given a scenario, manage services.</div>

- SysVinit
 - chkconfig
 - on
 - off
 - level

3.5 Given a scenario, implement and configure Linux firewalls.

- Technologies
 - firewalld
 - Zones

4.1 Given a scenario, analyze system properties and remediate accordingly.

- Network monitoring and configuration
 - nmap
 - netstat

4.4 Given a scenario, analyze and troubleshoot application and hardware issues.

- Firewall
 - Restrictive ACLs
 - Blocked ports
 - Blocked protocols
- Troubleshooting additional hardware issues
 - Communications ports

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