# 1.4 Linux Basics

As you study this section, answer the following questions:

- Why do many administrators choose to use a command line interface on a Linux server?
- What is a Linux distribution?
- Which common commands are used to navigate through shells?
- What types of items can Tab be used to complete once you start typing the entities' name?
- What is the difference between free software and open-source software?

In this section, you will learn to:

- Use shell commands
- Shut down a Linux system

Key terms for this section include the following:

| Term | Definition |
|---|---|
| Linux | An open source operating system. |
| Distribution | A custom version of Linux. |
| Shell | A command line interface. |

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

| Exam | Objective |
|---|---|
| TestOut PC Pro | 2.2 Use operating system features and utilities<br><br>    2.2.3 Use common Linux command line utilities |
| CompTIA 220-1002 | 1.1 Compare and contrast common operating system types and their purposes.<br><br>- Workstation operating systems<br>  - Linux<br><br>1.9 Given a scenario, use features and tools of the Mac OS and Linux client/desktop operating systems.<br><br>- Tools<br>  - Shell/Terminal<br><br>- Basic Linux commands<br>  - iwconfig/ifconfig<br>  - su/sudo<br>  - ls |

- pwd vs. passwd
- cd
- mv
- rm
- cp
- dd
- shutdown

4.8 Identify the basics of scripting.

- Environment variables