11.2 Resource Monitoring

As you study this section, answer the following questions:

- How can you determine how long a system has been running?
- How can you view the details about the CPU cores?
- Which tool would you use to get an overview of the computer including status information for the CPU and memory?
- Which tool would you use to configure the kernel parameters at runtime? For what purpose would you use it?
- Which command would displays the total amount of free and used physical and swap memory in your computer?
- Which tool would extract detailed information on the hardware configuration of the machine?
- Which file contains the statistics about the memory usage?

In this section, you will learn to:

- Determine a server's uptime.

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

Exam	Objective
TestOut Linux Pro	1.4 Manage system processes • Monitor and manage running processes

CompTIA Linux+	2.7 Explain the use and operation of Linux devices.
	• Monitoring and configuration tools
	  ◦ abrt
	4.1 Given a scenario, analyze system properties and remediate accordingly.
	• Network monitoring and configuration
	  ◦ Commands
	  ▪ netstat
	• Storage monitoring and configuration
	  ◦ iostat
	• CPU monitoring and configuration
	  ◦ /proc/cpuinfo
	  ◦ uptime
	  ◦ loadaverage
	  ◦ sar
	  ◦ sysctl

- Memory monitoring and configuration
  - vmstat
  - Out of memory killer
  - free
  - /proc/meminfo
  - Buffer cache output

4.2 Given a scenario, analyze system processes in order to optimize performance.

- Commands
  - top
  - lsof