

8.6 File System Maintenance

As you study this section, answer the following questions:

- Which utility allows you to view the space available on all mounted file systems?
- What kinds of information can the **lsdf** utility provide?
- What action must you perform before using the **fsck** utility?
- Which utility converts ext2 file systems to ext3 file systems?

In this section, you will learn to:

- Determine the amount of free disk space.
- Determine the directory size.

Key terms for this section include the following:

Term	Definition
Free disk space	The area of a hard disk to which new data can be written.
Bad blocks	A bad block is a section on a disk drive to which data can no longer be written to read from.

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

Exam	Objective
TestOut Linux Pro	<div>2.2 Manage the file system</div> <ul style="list-style-type: none">• View information about directories and files in the file system• View disk space usage statistics
CompTIA Linux+	<div>1.4 Given a scenario, manage storage in a Linux environment.</div> <ul style="list-style-type: none">• Tools<ul style="list-style-type: none">◦ Commands<ul style="list-style-type: none">▪ df▪ du▪ dumpe2fs▪ fsck▪ tune2fs• Location<ul style="list-style-type: none">◦ /etc/fstab <div>4.1 Given a scenario, analyze system properties and remediate accordingly.</div>

- Storage monitoring and configuration
 - iostat
 - ioping
 - IO Scheduling
 - cfg
 - noop
 - deadline
 - du
 - df
 - fsck

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

- Process management
 - Commands
 - lsof

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