

8.12 Archive and Backup

As you study this section, answer the following questions:

- What type of file would the file `marketing.tar.gz` represent?
- Which **tar** command option decompresses a file?
- Which utilities can decompress a file with a `.bz2` extension?
- When would you use the **dd** command to copy information instead of the **cp** command?

In this section, you will learn to:

- Use `tar` to create a compressed tar file.
- Use `tar` to extract files from a tar file.

Key terms for this section include the following:

Term	Definition
Full backup	A copy of all the files that exists at the point in time when the backup is taking place.
Incremental backup	An incremental backup stores files that has been changed or added since the last backup has been made.
Differential backup	A differential backup copies all of the files that have been updated since the last full backup.
Snapshot clones backup	This feature allows you to take point-in-time snapshots of the files on a system without causing the downtime inherent in traditional backups. A snapshot is set pointers to blocks of data that make up a set of files at a point in time.
Image backup	A single computer file or set of files that contain the contents of a hard disk.
Message Digest Algorithm 5 (MD5)	An algorithm that produces a 128-bit hash value.
Secure Hash Algorithm (SHA)	A cryptographic hash function that takes an input and produces a 160-bit (20-byte) hash value known as a message digest. SHA is typically rendered as a 40-digit hexadecimal number.

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

Exam	Objective
TestOut Linux Pro	2.2 Manage the file system <ul style="list-style-type: none">• Create and manage archives and backups

CompTIA Linux+	<p>2.1 Given a scenario, conduct software installations, configurations, updates, and removals.</p> <ul style="list-style-type: none">• Package types<ul style="list-style-type: none">◦ tar <p>3.6 Given a scenario, backup, restore, and compress files.</p> <ul style="list-style-type: none">• Archive and restore utilities<ul style="list-style-type: none">◦ tar◦ cpio◦ dd• Compression<ul style="list-style-type: none">◦ gzip◦ xz◦ bzip2◦ zip• Backup types<ul style="list-style-type: none">◦ Incremental◦ Full◦ Snapshot clones◦ Differential◦ Image• Off-site/off-system storage<ul style="list-style-type: none">◦ SFTP◦ SCP◦ rsync• Integrity checks<ul style="list-style-type: none">◦ MD5◦ SHA
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