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8.9 Permissions

As you study this section, answer the following questions:

- What is a file mode?
- Which user accounts can change a file's mode?
- What permissions does 764 represent (when identifying permissions numerically)?
- What does the first dash represent in -rwxrw-r--?
- What are the default permissions for files and directories?

In this section, you will learn to:

- Set directory permissions.
- Add file permissions.
- Set file permissions.
- Enable directory browsing.

Key terms for this section include the following:

Term	Definition
Inode	An inode is a data structure on a filesystem on Linux that stores all the information about a file except its name and its actual data. This includes such things as when it was last modified, size, data block location, permissions, and ownership.
Permissions	The ability to grant a user read, write, and execute for a file and directory.

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

Exam	Objective
TestOut Linux Pro	 4.2 Manage user and group access Manage directory and file ownership for users and groups Manage directory and file ownership for users and groups
CompTIA Linux+	 3.1 Given a scenario, apply or acquire the appropriate user and/or group permissions and ownership. File and directory permissions Read, write, execute User, group, other Utilities chmod chown

- o getfacl
- setfacl
- o Is
- User types
- 4.3 Given a scenario, analyze and troubleshoot user issues.
 - Permissions
 - o File
 - o Directory
- 4.4 Given a scenario, analyze and troubleshoot application and hardware issues.
 - Permission
 - Ownership
 - Executables
- 5.1 Given a scenario, deploy and execute basic BASH scripts.
 - Directory and file permissions
 - chmod

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