

## 8.11 Special Permissions

As you study this section, answer the following questions:

- On which types of files should you configure the SUID and SGID bits?
- What is the purpose of setting the sticky bit?
- Which special permissions would be set using **chmod 6421**?

In this section, you will learn to:

- Set or remove special permissions.

Key terms for this section include the following:

Term	Definition
Set owner user ID on execution (SUID )	A special type of file permission given to a file. This permission grants a user temporary permission to run a program or file with the file owner's permissions.
Set group ID up on execution (SGID )	A special file/directory permission given to a file. This permission grants a user temporary membership to a group so he or she can execute the directory, file, program, or command. A special type of file/directory permission given to a file that grants temporary permissions to a user to run a program/file with the permissions of the file group permissions to become member of that group to execute the file, e.g. users will get file group's permissions when executing a directory/file/program/command.
Sticky bit	An attribute that marks a file or directory to prevent anyone except the file owner from executing deletion.

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

Exam	Objective
TestOut Linux Pro	4.2 Manage user and group access <ul style="list-style-type: none"><li>• Use special permissions</li></ul>
CompTIA Linux+	3.1 Given a scenario, apply or acquire the appropriate user and/or group permissions and ownership. <ul style="list-style-type: none"><li>• File and directory permissions<ul style="list-style-type: none"><li>◦ SUID</li><li>◦ Sticky bit</li><li>◦ Utilities</li></ul></li></ul>

- chmod
- ls

4.3 Given a scenario, analyze and troubleshoot user issues.

- Permissions
  - File
  - Directory

5.1 Given a scenario, deploy and execute basic BASH scripts.

- Directory and file permissions
  - chmod

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