

Sticky Bit, SUID & SGID

Sticky Bit

- When the sticky bit is set on a directory, only the root user, the owner of the directory, and the owner of a file can remove files within said directory.
- To set the Sticky Bit:
 - `chmod +t /opt/directory`
 - `chmod 1777 /opt/directory`

SUID

- SUID is a special permission assigned to a file. These permissions allow the file being executed to be executed with the privileges of the owner. For example, if a file was owned by the root user and has the setuid bit set, no matter who executed the file it would always run with root user privileges.
- To set the SUID:
 - `chmod u+s /opt/script`
 - `chmod 4777 /opt/script`

SGID

- When the Set Group ID bit is set, the executable is run with the authority of the group. For example, if a file was owned by the users' group, no matter who executed that file it would always run with the authority of the user's group.

To set the Sticky Bit:

- chmod g+s /opt/script
- chmod 2777 /opt/script