File permissions in Linux -1

Project description

In this project, I demonstrate my proficiency in managing file permissions using Linux commands as a security professional. Working with the organization's research team, I ensure proper authorization and secure access by examining and modifying file permissions. By reviewing the scenario and following step-by-step instructions, I analyze existing permissions, identify any discrepancies, and make necessary adjustments to authorize appropriate users while removing unauthorized access. This project showcases my ability to effectively manage file permissions, maintain system security, and highlights my experience in working with Linux commands for permission management in a cybersecurity context.

Check file and directory details

pwd(to see the path)

Ls-l(to see files)

Ls -la(to see hidden files too)

Ls -ld (to see details of a directory)

Describe the permissions string

The permission string represents the file or directory permissions using a combination of letters and symbols. It consists of ten characters that are divided into three sections : Owner Permissions (first three characters),Group Permissions (next three characters),Other Permissions (last three characters)

Where ,

Read is represented by r
Write is represented by w
execute is represented by x

For example:rw-r--r--

Change file permissions

chmod u=rw,g=r,o=r my_file.txt

Change file permissions on a hidden file

chmod u=rw,g=r,o= .my_hidden_file

Change directory permissions

chmod u=rwx,g=x,o= /home/researcher2/projects/drafts

Summary

In this project, I utilized Linux commands to manage file permissions and ensure proper authorization and secure access within the organization's research team. By examining and modifying permissions, I demonstrated my ability to maintain system security and effectively manage file access. This project highlights my proficiency in Linux command usage for permission management, emphasizing my skills in maintaining data integrity and confidentiality in a cybersecurity context.