Task 5: Permissions and Ownership

Objective

Understand how to view and modify file permissions and change file ownership in Linux.

Task Description

1. View the current permissions of sample.txt.
2. Change permissions to read-only for the owner and no permissions for others.
3. Change the ownership of LinuxHistory.txt to another existing user.

Commands Used

1. ls -l sample.txt
2. chmod 400 sample.txt
3. sudo chown otheruser LinuxHistory.txt

Explanation

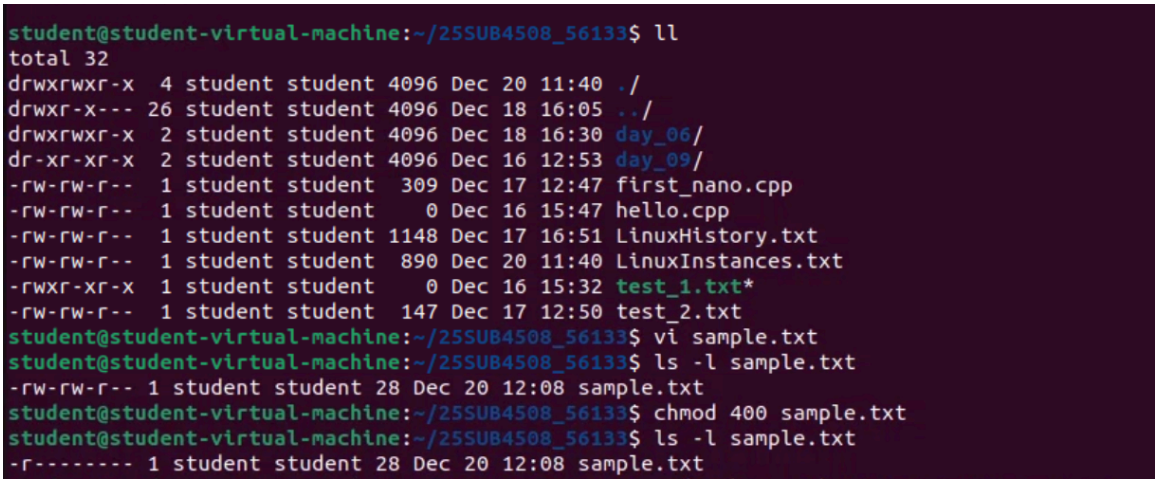
The ls -l command displays file permissions and ownership details. The chmod command modifies file permissions; 400 sets read-only access for the owner. The chown command changes the ownership of a file to another user.

Verification Commands

ls -l sample.txt
ls -l LinuxHistory.txt

Screenshot Section

1. Viewing permissions using ls -l & Changing permissions using chmod



2. Changing ownership using chown & Verifying changes

```
student@student-virtual-machine:~/25SUB4508_56133$ sudo chown otherUser LinuxHistory.txt
[sudo] password for student:
```

External

- Linux Operating System
- Shell
- chmod command
- chown command
- ls command
- nano / vi editor
- Microsoft Word / LibreOffice Writer
- Google Docs

Conclusion

This task demonstrates how Linux handles file security through permissions and ownership, allowing controlled access to files.