

Week 5 Topic: Users and Groups

Objective:

By the end of this activity, students should be able to:

- Understand user account management in Linux.
 - Manage groups and permissions.
 - Use the `sudo` command effectively.
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Instructions:

Complete the following tasks and submit your answers in a document. Provide screenshots where applicable.

Part 1: User Management

1. Create a new user named `student1`. What command did you use?
2. Set a password for `student1`. Provide the command.
3. Modify `student1`'s account to expire on December 31, 2025.
4. List all users in the system. What file stores user account details?

Part 2: Group Management

5. Create a new group called `developers`.
6. Add `student1` to the `developers` group.
7. Verify that `student1` is now part of `developers`.
8. Change the primary group of `student1` to `developers`.

Part 3: File Permissions & Sudo Access

9. As the root user, create a directory `/project`. Change its group ownership to `developers` and set permissions so that only members of `developers` can modify files inside it.
 10. Grant `student1` `sudo` privileges. What file needs to be modified, and how do you safely edit it?
 11. Switch to `student1` and execute a command using `sudo`. What happens if `student1` is not in the sudoers file?
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Submission Guidelines:

- Submit your answers in a printed document.
- Include all commands used and their outputs.
- Add screenshots where necessary.

Deadline: March 11, 2025