Operating Systems Lab

Lab-02

Scenario: You are the system administrator of a Linux server used by a small development team. Recently, there have been some issues reported by team members, and you need to troubleshoot and perform user management tasks.

Tasks:

1. **Troubleshooting:**

   - Use the **who** command to identify the currently logged-in users on the system.

2. **User Management:**

   - Create a new user named **developer1** using the **useradd** command.

   - Set a password for the newly created user using the **passwd** command.

   - Create a new group named **development** using the **groupadd** command.

   - Add the user **developer1** to the **development** group using the **usermod** command.

   - Check and display the group memberships of the user **developer1** using the **groups** command.

3. **File Permission Adjustment:**

   - Create a directory named **project_files** in the home directory of **developer1** using the **mkdir** command.

   - Change the ownership of the **project_files** directory to **developer1** and the group to **development** using the **chown** and **chgrp** commands.

   - Ensure that only the owner (**developer1**) has write permissions on the **project_files** directory.

4. **Conclusion:**

   - Summarize your troubleshooting findings and the actions taken to resolve any issues.

   - Confirm that the new user **developer1** has been successfully created, added to the **development** group, and that file permissions are set correctly.