

LINUX ASSESSMENT

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Real-Time Scenario: Managing Users in a Linux

Scenario: You are a system administrator in a medium-sized IT company. A new team member, Heisenberg, joins the company, and you are tasked with creating him user account, assigning her to a specific group, setting permissions for project directories, and ensuring security protocols are followed.

Step 1: Creating a New User

Heisenberg is a manager and needs access to the development team's resources. To create his account, you use the useradd command. We can add the user by the following command.

useradd Heisenberg

Verify the user creation:

cat /etc/passwd

Step 2: Setting a Password

Set a password for Heisenberg to allow him to log in.

passwd Heisenberg

Step 3: Assigning Heisenberg to a Group

Heisenberg needs access to the developers group. Add him to the group:

usermod -aG developers alice

-aG: Adds Heisenberg to the developers group without removing her from other groups.

Verify his group memberships:

cat /etc/group

Step 4: Setting Up Permissions for Project Directory

The developers group has access to the /projects directory. Ensure Heisenberg has appropriate permissions:

1.Check the directory permissions: ls -ld /projects

2.Set group ownership of the directory to developers: chown :developers /projects

3.Assign read, write, and execute permissions to the group: chmod 770 /projects

Step 5: Temporarily Lock Heisenberg's Account

Heisenberg takes a leave of absence, and his account needs to be temporarily disabled:

usermod -L Heisenberg

To unlock his account upon return:

usermod -U Heisenberg

Step : Deleting Heisenberg's Account

When Heisenberg leaves the company, delete his account and optionally remove his home directory:

userdel -r Heisenberg

-r: Removes his home directory.

By following these steps we can create a user account ensuring proper access,security to the company.