

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.